# CITY COUNCIL

City Clerk's Office 4/2/2025 12:00:00 PM

**Regular 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 **Monday April 7, 2025** at 07:00 PM.

City Clerk

## Call to Order

7:00 PM Meeting called to order on April 7, 2025 at City Hall -- Room 200, 36 Court Street, Springfield, MA.

## Reports of Committee

## Zoning Change Referral

() To Amend the Springfield Zoning Ordinance by Amending Article 8, Section 8.4 (Floodplain Overlay District). Amendment to Article 8, Section 8.4 (Floodplain_Overlay_District) None Yet

| | |
|---|---|
| **PETITIONER:** | **Springfield Planning Board** |
| **ADDRESS:** | **City Wide** |
| **CHANGE REQUESTED:** | **Amendment to Article 8, Section 8.4 (Floodplain Overlay District)** |

## Informational

(1.) February Revenue Vs. Expenditure Report (Mayor Sarno)
(2.) From CC re:Confirmation of the Re-Appointment of Vanessa Otero to the Water and Sewer Commission –
(3.) From CC re:Confirmation of the Re-Appointment of Dan Rodriguez to the Water and Sewer Commission –
(4.) From CC re:Confirmation of the Re-Appointment of Matthew Donnellan to the Water and Sewer Commission –

## Petitions

(5.) EVERSOURCE -Westford Cir
(6.) EVERSOURCE -Page Blvd.
(7.) Eversource - Commonwealth Ave.

(8.) EVERSOURCE- Sumner Ave.
(9.) EVERSORCE - Memorial Dr.
(10.) EVERSOURCE- Main Street
(11.) EVERSOURCE - S Branch Parkway
(12.) EVERSOURCE - Boston Road
(13.) EVERSOURCE - Jean Dr.
(14.) EVERSOURCE -Brickett Street
(15.) EVERSOURCE - Murray Hill Ave.

## Orders

(16.) Donation of Goods to Elder Affairs - $1,855.20 (Mayor Sarno)
(17.) National Environmental Health Association Grant - No Match Required $8,500.00 (Mayor Sarno)
(18.) Bills of Prior Year - Police Department - $10,806.80 (Mayor Sarno)
(19.) Order Authorizing Expenditure of FY25 – State of Massachusetts Fair Share Amendment Funds $807,384.41 (Mayor Sarno)

The Commonwealth of Massachusetts has appropriated an amount of local transportation aid funding as part of a State of Massachusetts FY2025 Fair Share Amendment for the City of Springfield in the amount of $807,384.41

(20.) Order Authorizing Expenditure of FY26 Chapter 90 Funds - $5,035,405.80 (Mayor Sarno)
(21.) Order Authorizing Transfer of the Care, Custody, Management and Control of South Side Marble St. (Parcel-ID #08235-0037) from the Tax Title Custodian to the Board of Park Commissioners (Mayor Sarno)
(22.) Collective Bargaining Agreement Ratification - Springfield Public Health Nurses Association (SPHNA) (Mayor Sarno)

## Ordinances

(23.) (ID # 8508) - Amending Chapter 270 of the Revised Ordinances of the City of Springfield, 1986, as Amended, by Amending Chapter 270 Section 270-1
(24.) (ID # 8474) - Amendiment to Chapter 327-5(E) Solid Waste: Containers
(25.) An Amendment to Chapter 327, Solid Waste (Mayor Sarno)
(26.) An Amendment to the City of Springfield Trash Rules and Regulations (Mayor Sarno)

## Resolutions

(27.) Increase Cost of Gas And Electricity

# To The City Council of the City of Springfield:

*The undersigned respectfully petition your honorable body*

to amend the Springfield Zoning Ordinance by amending Article 8, Section 8.4 (Floodplain Overlay District), as set forth in the proposed amendment attached hereto:

**SEE ATTACHED DOCUMENT(S)**

**Mailing Address:**

36 Court Street
Springfield, MA 01103

**Petitioner:**

Springfield Planning Board

**BY:** _____
**Springfield Planning Board**

**BY:** _____
**Springfield Planning Board**

**BY:** _____
**Springfield Planning Board**

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Attachment: 3253_Floodplain_Overlay_Formal_2025 (8522 : Amendment to Article 8, Section 8.4 (Floodplain_Overlay_District))

## SECTION 8.4 FLOODPLAIN OVERLAY DISTRICT

### Section 8.4.10 Purpose

The purpose of the Floodplain District is to:

A. Ensure public safety through reducing the threats to life and personal injury;

B. Eliminate new hazards to emergency response officials;

C. Prevent the occurrence of public emergencies resulting from water quality, contamination and pollution due to flooding;

D. Avoid the loss of utility services, which if damaged by flooding, would disrupt or shutdown the utility network and impact regions of the community beyond the site of flooding;

E. Eliminate costs associated with the response and cleanup of flooding conditions;

F. Reduce damage to public and private property resulting from flooding waters.

### Section 8.4.20 Definitions (only applicable to the Floodplain Overlay District)

DEVELOPMENT. Any man-made change to improved or unimproved real estate, including but not limited to building or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or materials. [US Code of Federal Regulations, Title 44, Part 59].

FLOODWAY. The channel of the river, creek or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height. [Base Code, Chapter 2, Section 202].

FUNCTIONALLY DEPENDENT USE. A use which cannot perform its intended purpose unless it is located or carried out in close proximity to water. The term includes only docking facilities, port facilities that are necessary for the loading and unloading of cargo or passengers, and ship building and ship repair facilities, but does not include long-term storage or related manufacturing facilities. [US Code of Federal Regulations, Title 44, Part 59] Also [Referenced Standard ASCE 24-14].

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HIGHEST ADJACENT GRADE. The highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure. [US Code of Federal Regulations, Title 44, Part 59].

HISTORIC STRUCTURE. Any structure that is: (a) Listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register; (b) Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district; (c) Individually listed on a state inventory of historic places in states with historic preservation programs which have been approved by the Secretary of the Interior; or (d) Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either: (1) By an approved state program as determined by the Secretary of the Interior or (2) Directly by the Secretary of the Interior in states without approved programs. [US Code of Federal Regulations, Title 44, Part 59].

NEW CONSTRUCTION. Structures for which the start of construction commenced on or after the effective date of the first floodplain management code, regulation, ordinance, or standard adopted by the authority having jurisdiction, including any subsequent improvements to such structures. *New construction includes work determined to be substantial improvement.* [Referenced Standard ASCE 24-14].

RECREATIONAL VEHICLE. A vehicle which is: (a) Built on a single chassis;
(b) 400 square feet or less when measured at the largest horizontal projection;
(c) Designed to be self-propelled or permanently towable by a light duty truck; and
(d) Designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel, or seasonal use. [US Code of Federal Regulations, Title 44, Part 59].

REGULATORY FLOODWAY. - see FLOODWAY.

SPECIAL FLOOD HAZARD AREA. The land area subject to flood hazards and shown on a Flood Insurance Rate Map or other flood hazard map as Zone A, AE, A1-30, A99, AR, AO, AH, V, VO, VE or V1-30. [Base Code, Chapter 2, Section 202]

START OF CONSTRUCTION. The date of issuance for new construction and substantial improvements to existing structures, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement or other improvement is within 180 days after the date of issuance. The actual start of construction means the first placement of permanent construction of a building (including a manufactured home) on a site, such as the pouring of a slab or footings, installation of pilings or construction of columns. Permanent

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construction does not include land preparation (such as clearing, excavation, grading or filling), the installation of streets or walkways, excavation for a basement, footings, piers or foundations, the erection of temporary forms or the installation of accessory buildings such as garages or sheds not occupied as dwelling units or not part of the main building. For a substantial improvement, the actual "start of construction" means the first alteration of any wall, ceiling, floor or other structural part of a building, whether or not that alteration affects the external dimensions of the building. [Base Code, Chapter 2, Section 202].

STRUCTURE. For floodplain management purposes, a walled and roofed building, including a gas or liquid storage tank, that is principally above ground, as well as a manufactured home. [US Code of Federal Regulations, Title 44, Part 59].

SUBSTANTIAL REPAIR OF A FOUNDATION. When work to repair or replace a foundation result in the repair or replacement of a portion of the foundation with a perimeter along the base of the foundation that equals or exceeds 50% of the perimeter of the base of the foundation measured in linear feet, or repair or replacement of 50% of the piles, columns or piers of a pile, column or pier supported foundation, the building official shall determine it to be substantial repair of a foundation. Applications determined by the building official to constitute substantial repair of a foundation shall require all existing portions of the entire building or structure to meet the requirements of 780 CMR. [As amended by MA in 9th Edition BC].

VARIANCE. A grant of relief by a community from the terms of a flood plain management regulation. [US Code of Federal Regulations, Title 44, Part 59].

VIOLATION. The failure of a structure or other development to be fully compliant with the community's flood plain management regulations. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required in §60.3 is presumed to be in violation until such time as that documentation is provided. [US Code of Federal Regulations, Title 44, Part 59].

## Section 8.4.30 Flood Plain District

The Floodplain District is herein established as an overlay district. The district includes all special flood hazard areas within the City of Springfield designated as Zone A and AE on the Hampden County Flood Insurance Rate Map (FIRM) dated June 7, 2023 issued by the Federal Emergency Management Agency (FEMA) for the administration of the National Flood Insurance Program. The exact boundaries of the district shall be defined by the 1%-chance base flood elevations shown on the FIRM and further defined by the Hampden County Flood Insurance Study (FIS) report dated June 7, 2023. The FIRM and FIS report are incorporated herein by reference and are on file with the City Clerk, Office of Planning & Economic Development and

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the Building Department. Further, the Building Commissioner, or his/her designee, is designated as the official floodplain administrator.

## Section 8.4.40 Development Regulations

The following requirements apply in the Flood Plain District:

8.4.41 The City of Springfield requires a permit for all proposed construction or other development in the floodplain overlay district, including new construction or changes to existing buildings, placement of manufactured homes, placement of agricultural facilities, fences, sheds, storage facilities or drilling, mining, paving and any other development that might increase flooding or adversely impact flood risks to other properties.

8.4.42 Application to the Board of Appeals for a Special Permit shall be accompanied by a plan which shall show the following:

A. Boundaries and dimensions of the area involved.

B. The location, dimensions and mean sea level of the lowest habitable floor, including basement of existing and proposed BUILDINGS and STRUCTURE thereon, and the elevation to which the STRUCTURE has been flood-proofed.

C. All plans shall show two (2) foot contour intervals and contours shall be delineated within two hundred (200) feet of the proposed construction.

D. In a riverine situation, the Natural Resource Manager shall notify the following of any alteration or relocation of a watercourse:

1. Adjacent Communities

2. NFIP State Coordinator, Massachusetts Department of Conservation and Recreation.

3. NFIP Program Specialists, Federal Emergency Management Agency, Region I.

E. The City of Springfield's permit review process includes the requirement that the proponent obtain all local, state and federal permits that will be necessary in order to carry out the proposed development in the floodplain overlay district. The proponent must acquire all necessary permits, and must demonstrate that all necessary permits have been acquired.

Attachment: 3253_Floodplain_Overlay_Formal_2025 (8522 : Amendment to Article 8, Section 8.4 (Floodplain_Overlay_District))

F. Any other information as is deemed necessary by the SPECIAL PERMIT GRANTING AUTHORITY to indicate the complete physical characteristics of the area and the proposed construction and/or grading thereof.

8.4.43 Plans shall be prepared by a Professional Engineer or Land Surveyor registered in the Commonwealth of Massachusetts and shall show and make adequate provisions for the following:

A. The protection, preservation and maintenance of the water table and water recharge areas.

B. The preservation and maintenance of the natural stream channel plus sufficient width of overbank areas for the passage of one hundred (100) year flood flows so as not to increase the one hundred (100) year flood water surface elevation more than one (1) foot at any point within the community.

C. The retention of existing floodwater storage capacity.

D. Prevention of flotation, collapse and movement of STRUCTURES.

E. Prevention of flood damage to public utilities including sewer, water, gas, and electric.

F. In A Zones, in the absence of FEMA BFE data and floodway data, the building department will obtain, review and reasonably utilize base flood elevation and floodway data available from a Federal, State, or other source as criteria for requiring new construction, substantial improvements, or other development in Zone A and as the basis for elevating residential structures to or above base flood level, for floodproofing or elevating nonresidential structures to or above base flood level, and for prohibiting encroachments in floodways.

H. When proposing subdivisions or other developments greater than fifty (50) lots or five (5) acres (whichever is less), the proponent must provide technical data to determine base flood elevations for each developable parcel shown on the design plans.

I. All subdivision proposals must be designed to assure that:

1. such proposals minimize flood damage;

Attachment: 3253_Floodplain_Overlay_Formal_2025 (8522 : Amendment to Article 8, Section 8.4 (Floodplain_Overlay_District))

2. all public utilities and facilities are located and constructed to minimize or eliminate flood damage; and

3. adequate drainage is provided to reduce exposure to flood hazards.

J. Located within the Flood Plain District are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of Flood Waters which carry debris, potential projectiles, and erosion potential, the following provisions shall apply:

1. In Zones A, A1-30, and AE, along watercourses that have not had a regulatory floodway designated, the best available Federal, State, local, or other floodway data shall be used to prohibit encroachments in floodways which would result in any increase in flood levels within the community during the occurrence of the base flood discharge.

   In Zones A1-30 and AE, along watercourses that have a regulatory floodway designated on the Town's FIRM encroachments are prohibited, including fill, new construction, substantial improvements, and other development within the adopted regulatory floodway unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in any increase in flood levels within the community during the occurrence of the base flood discharge.

2. If Section 8.4.43(I)(1) above is satisfied, all new construction and any alteration or addition shall comply with all provisions of Section 8.4.40.

3. Within fourteen (14) days after receipt of the application by the Board of Appeals, the Board shall transmit copies thereof, together with copies of the accompanying plan to the Board of Health, Engineering Department and the Conservation Commission or any other agency. Such agencies shall investigate the application and report in writing their recommendation to the Board of Appeals. The Board of Appeals shall not take final action on such application until it has received a written report from the above agencies or until forty-five (45) days have elapsed without receipt of said reports.

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## Section 8.4.50 Recreational Vehicles

In A and AE Zones, all recreational vehicles to be placed on a site must be elevated and anchored in accordance with the zone's regulations for foundation and elevation requirements or be on the site for less than one hundred and eighty (180) consecutive days or be fully licensed and highway ready.

## Section 8.4.60 Requirement to Submit New Data

If the City of Springfield acquires data that changes the base flood elevation in the FEMA mapped Special Flood Hazard Areas, the City will, within six (6) months, notify FEMA of these changes by submitting the technical or scientific data that supports the change(s). Notification shall be submitted to:

A. NFIP State Coordinator, Massachusetts Department of Conservation and Recreation

B. NFIP Program Specialist, Federal Emergency Management Agency, Region 1

## Section 8.4.70 Variances to Building Code and Zoning Floodplain Standards

The City of Springfield will request from the State Building Code Appeals Board a written and/or audible copy of the portion of the hearing related to the variance, and will maintain this record in the community's files.

The City of Springfield shall also issue a letter to the property owner regarding potential impacts to the annual premiums for the flood insurance policy covering that property, in writing over the signature of a community official that (i) the issuance of a variance to construct a structure below the base flood level will result in increased premium rates for flood insurance up to amounts as high as $25 for $100 of insurance coverage and (ii) such construction below the base flood level increases risks to life and property.

Such notification shall be maintained with the record of all variance actions for the referenced development in the floodplain overlay district.

A variance from these floodplain bylaws must meet the requirements set out by State law, and may only be granted if: 1) Good and sufficient cause and exceptional non-financial hardship exist; 2) the variance will not result in additional threats to public safety, extraordinary public expense, or fraud or victimization of the public; and 3) the variance is the minimum action necessary to afford relief.

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## Section 8.4.80 Compliance with Other Statues

Nothing contained in this section shall excuse compliance with the Wetlands Protection Statutes, General Laws, Chapter 131, Sections 40 and 40A, or any other laws of the Commonwealth of Massachusetts. Further, the floodplain management regulations found in this Floodplain Overlay District section shall take precedence over any less restrictive conflicting local laws, ordinances or codes.

## Section 8.4.90 Disclaimer of Liability

The degree of flood protection required by this ordinance is considered reasonable but does not imply total flood protection.

## Section 8.4.100 Severability

If any section, provision or portion of this bylaw is deemed to be unconstitutional or invalid by a court, the remainder of the ordinance shall be effective.

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# OFFICE OF PLANNING & ECONOMIC DEVELOPMENT
# ANALYSIS FOR A ZONE CHANGE

## AMEND ARTICLE 8, SECTION 8.4
## (FLOODPLAIN OVERLAY DISTRICT)

### GENERAL INFORMATION

| | |
|---|---|
| **Petitioner:** | Springfield Planning Board |
| **Request:** | The proposal is to amend Article 8, Section 8.4 of the Springfield Zoning Ordinance (see attached for full proposed amendment). |
| **Location:** | City Wide |
| **Parcel Size:** | N/A |
| **Purpose:** | To bring the City's Floodplain Overlay District regulation into compliance with FEMA and the National Flood Insurance Program requirements. |
| **Surrounding Land Use and Zoning:** | N/A |
| **Comprehensive/ Neighborhood Plan:** | N/A |
| **Planning Board Hearing:** | 4-2-25 |

### SPECIAL INFORMATION

| | |
|---|---|
| **Traffic & Parking:** | n/a |
| **Physical Characteristics:** | n/a |
| **Other Notes:** | n/a |

### ANALYSIS

The Office of Planning & Economic Development, in conjunction with the Springfield Planning Board, has petitioned to amend Article 8, Section 8.4 of the Springfield Zoning Ordinance. The proposed amendment is to update the Floodplain Overlay District regulations.

As noted above, the Office of Planning & Economic Development has drafted an updated version of the Floodplain Overly District regulations. The proposed amendments are to bring the city regulations into compliance with the Federal Emergency Management Agency (FEMA) and the National Flood Insurance Program (NFIP) requirements.

The Floodplain Overlay District regulations controls development, including new construction and changes to existing buildings, in areas designated as a special flood hazard area within the City of Springfield. These areas are outlined within the Hampden County Flood Insurance Rate Maps (FIRM), which are issued by FEMA.

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The purposed of the Floodplain Overlay District is to:

- Ensure public safety through reducing the threats to life and personal injury;
- Eliminate new hazards to emergency response;
- Prevent the occurrence of public emergencies resulting from water quality, contamination and pollution due to flooding;
- Avoid the loss of utilities, which if damaged by flooding, would disrupt or shutdown the utility network and impact regions of the community beyond the site of flooding;
- Eliminate costs associated with the response and cleanup of flooding conditions;
- Reduce damage to public and private property resulting from flooding waters.

The Office of Planning & Economic Development has been working directly with the Floodplain Management Specialist from the Massachusetts Department of Conservation & Recreation (DCR). After a number of revisions, the final version of the proposed Floodplain Overlay District regulations was fully reviewed and approved by DRC.

Overall, in order to keep the City's floodplain regulations in compliance with both FEMA and NFIP requirements, the staff recommends approval of the proposed revisions.

## RECOMMENDATION

Approve.

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## SECTION 8.4 FLOODPLAIN OVERLAY DISTRICT

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The purpose of the Floodplain District is to:

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### Section 8.4.20 Definitions (only applicable to the Floodplain Overlay District)

DEVELOPMENT. Any man-made change to improved or unimproved real estate, including but not limited to building or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or materials. [US Code of Federal Regulations, Title 44, Part 59].

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STRUCTURE. For floodplain management purposes, a walled and roofed building, including a gas or liquid storage tank, that is principally above ground, as well as a manufactured home. [US Code of Federal Regulations, Title 44, Part 59].

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8.4.42 Application to the Board of Appeals for a Special Permit shall be accompanied by a plan which shall show the following:

A. Boundaries and dimensions of the area involved.

B. The location, dimensions and mean sea level of the lowest habitable floor, including basement of existing and proposed BUILDINGS and STRUCTURE thereon, and the elevation to which the STRUCTURE has been flood-proofed.

C. All plans shall show two (2) foot contour intervals and contours shall be delineated within two hundred (200) feet of the proposed construction.

D. In a riverine situation, the Natural Resource Manager shall notify the following of any alteration or relocation of a watercourse:

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B. The preservation and maintenance of the natural stream channel plus sufficient width of overbank areas for the passage of one hundred (100) year flood flows so as not to increase the one hundred (100) year flood water surface elevation more than one (1) foot at any point within the community.

C. The retention of existing floodwater storage capacity.

D. Prevention of flotation, collapse and movement of STRUCTURES.

E. Prevention of flood damage to public utilities including sewer, water, gas, and electric.

F. In A Zones, in the absence of FEMA BFE data and floodway data, the building department will obtain, review and reasonably utilize base flood elevation and floodway data available from a Federal, State, or other source as criteria for requiring new construction, substantial improvements, or other development in Zone A and as the basis for elevating residential structures to or above base flood level, for floodproofing or elevating nonresidential structures to or above base flood level, and for prohibiting encroachments in floodways.

H. When proposing subdivisions or other developments greater than fifty (50) lots or five (5) acres (whichever is less), the proponent must provide technical data to determine base flood elevations for each developable parcel shown on the design plans.

I. All subdivision proposals must be designed to assure that:

1. such proposals minimize flood damage;

Attachment: 3253_Floodplain_Overlay_2025 (8522 : Amendment to Article 8, Section 8.4 (Floodplain_Overlay_District))

2. all public utilities and facilities are located and constructed to minimize or eliminate flood damage; and

3. adequate drainage is provided to reduce exposure to flood hazards.

J. Located within the Flood Plain District are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of Flood Waters which carry debris, potential projectiles, and erosion potential, the following provisions shall apply:

1. In Zones A, A1-30, and AE, along watercourses that have not had a regulatory floodway designated, the best available Federal, State, local, or other floodway data shall be used to prohibit encroachments in floodways which would result in any increase in flood levels within the community during the occurrence of the base flood discharge.

   In Zones A1-30 and AE, along watercourses that have a regulatory floodway designated on the Town's FIRM encroachments are prohibited, including fill, new construction, substantial improvements, and other development within the adopted regulatory floodway unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in any increase in flood levels within the community during the occurrence of the base flood discharge.

2. If Section 8.4.43(I)(1) above is satisfied, all new construction and any alteration or addition shall comply with all provisions of Section 8.4.40.

3. Within fourteen (14) days after receipt of the application by the Board of Appeals, the Board shall transmit copies thereof, together with copies of the accompanying plan to the Board of Health, Engineering Department and the Conservation Commission or any other agency. Such agencies shall investigate the application and report in writing their recommendation to the Board of Appeals. The Board of Appeals shall not take final action on such application until it has received a written report from the above agencies or until forty-five (45) days have elapsed without receipt of said reports.

Attachment: 3253_Floodplain_Overlay_2025 (8522 : Amendment to Article 8, Section 8.4 (Floodplain_Overlay_District))

## Section 8.4.50 Recreational Vehicles

In A and AE Zones, all recreational vehicles to be placed on a site must be elevated and anchored in accordance with the zone's regulations for foundation and elevation requirements or be on the site for less than one hundred and eighty (180) consecutive days or be fully licensed and highway ready.

## Section 8.4.60 Requirement to Submit New Data

If the City of Springfield acquires data that changes the base flood elevation in the FEMA mapped Special Flood Hazard Areas, the City will, within six (6) months, notify FEMA of these changes by submitting the technical or scientific data that supports the change(s). Notification shall be submitted to:

A. NFIP State Coordinator, Massachusetts Department of Conservation and Recreation

B. NFIP Program Specialist, Federal Emergency Management Agency, Region 1

## Section 8.4.70 Variances to Building Code and Zoning Floodplain Standards

The City of Springfield will request from the State Building Code Appeals Board a written and/or audible copy of the portion of the hearing related to the variance, and will maintain this record in the community's files.

The City of Springfield shall also issue a letter to the property owner regarding potential impacts to the annual premiums for the flood insurance policy covering that property, in writing over the signature of a community official that (i) the issuance of a variance to construct a structure below the base flood level will result in increased premium rates for flood insurance up to amounts as high as $25 for $100 of insurance coverage and (ii) such construction below the base flood level increases risks to life and property.

Such notification shall be maintained with the record of all variance actions for the referenced development in the floodplain overlay district.

A variance from these floodplain bylaws must meet the requirements set out by State law, and may only be granted if: 1) Good and sufficient cause and exceptional non-financial hardship exist; 2) the variance will not result in additional threats to public safety, extraordinary public expense, or fraud or victimization of the public; and 3) the variance is the minimum action necessary to afford relief.

Attachment: 3253_Floodplain_Overlay_2025 (8522 : Amendment to Article 8, Section 8.4 (Floodplain_Overlay_District))

## Section 8.4.80 Compliance with Other Statues

Nothing contained in this section shall excuse compliance with the Wetlands Protection Statutes, General Laws, Chapter 131, Sections 40 and 40A, or any other laws of the Commonwealth of Massachusetts. Further, the floodplain management regulations found in this Floodplain Overlay District section shall take precedence over any less restrictive conflicting local laws, ordinances or codes.

## Section 8.4.90 Disclaimer of Liability

The degree of flood protection required by this ordinance is considered reasonable but does not imply total flood protection.

## Section 8.4.100 Severability

If any section, provision or portion of this bylaw is deemed to be unconstitutional or invalid by a court, the remainder of the ordinance shall be effective.

Attachment: 3253_Floodplain_Overlay_2025 (8522 : Amendment to Article 8, Section 8.4 (Floodplain_Overlay_District))

# City Council

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Stephen Lonergan
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8579

# February Revenue Vs. Expenditure Report (Mayor Sarno)

# CITY OF SPRINGFIELD, MASSACHUSETTS

## Statement of Revenues and Other Sources, and Expenditures and Other Uses Budget and Actual - General Fund

For the period ended
02/28/25

| Revenues and Other Sources: | Revised Budget | Actual | Variance Over/(Under) | |
|---|---|---|---|---|
| Real Estate & Personal Property Taxes | 270,552,857 | 197,018,527 | (73,534,330) | % |
| Real Estate & Personal Property Taxes - Tax Liens | - | 983,610 | 983,610 | % |
| Motor Vehicle Excise | 12,800,000 | 5,236,725 | (7,563,275) | % |
| Penalties, interest and other taxes | 23,134,591 | 4,058,301 | (19,076,291) | % |
| Charges for Services | 15,367,864 | 9,249,208 | (6,118,656) | % |
| Intergovernmental | 581,823,679 | 386,583,050 | (195,240,629) | % |
| Licenses and Permits | 6,168,100 | 4,038,626 | (2,129,474) | % |
| Fines and Forfeits | 595,183 | 186,470 | (408,713) | % |
| Interest earned on Investments | 5,971,893 | 6,442,188 | 470,295 | % |
| Miscellaneous | 6,748,014 | 5,839,623 | (908,391) | % |
| FY 2024 Net School Spending Shortfall (a.) | 19,004,078 | 19,004,078 | - | % |
| Stabilization Reserves/Transfers in | 3,700,000 | 4,518,927 | 818,927 | % |
| Free Cash to Reduce Tax Rate | 4,000,000 | 4,000,000 | - | % |
| Free Cash to Law Settlement | 3,375,000 | 3,375,000 | - | % |
| Total Revenues and Other Sources | 953,241,260 | 650,534,333 | (302,706,927) | % |
| **Expenditures and Other Uses:** | | | | |
| General government | 33,761,195 | 25,419,268 | 8,341,926 | % |
| Public safety | | | | |
| Police | 58,517,400 | 38,494,880 | 20,022,520 | % |
| Fire | 28,750,291 | 19,486,419 | 9,263,871 | % |
| Centralized Dispatch | 2,273,132 | 1,792,365 | 480,767 | % |
| Other | 5,197,368 | 3,359,078 | 1,838,290 | % |
| Health and Welfare | 4,875,332 | 2,745,857 | 2,129,475 | % |
| Public works | 12,436,838 | 10,579,872 | 1,856,965 | % |
| Education | 646,613,036 | 407,416,237 | 239,196,799 | % |
| Culture and recreation | 18,845,295 | 12,887,462 | 5,957,833 | % |
| Pension and fringe | 101,953,172 | 90,041,918 | 11,911,254 | % |
| State and district assessments | 3,806,569 | 2,574,606 | 1,231,963 | % |
| Debt Service | 23,143,037 | 11,206,131 | 11,936,906 | % |
| Pay as you go Capital | 4,989,680 | 866,520 | 4,123,160 | % |
| Other Financing Use - Trash Enterprise Supplement | 8,078,917 | 8,078,917 | - | % |
| Total Expenditures and Other Uses | 953,241,260 | 634,949,531 | 318,291,729 | % |
| Excess (deficiency) of revenues and other sources over expenditures and other uses | - | 15,584,802 | 15,584,802 | |

(a.) The FY 2024 Net School Spending Requirement shortfall must be appropriated in the School Budget pursuant to Chapter 70. Section 11 of the Education Reform Act of 1993.

Attachment: February Rev Exp Report (8579 : February Revenue Vs. Expenditure Report)

Attachment: February Rev Exp Report (8579 : February Revenue Vs. Expenditure Report)



**CITY OF SPRINGFIELD, MASSACHUSETTS**
**Budget and Actual - General Fund**
**Expenditures and Encumbrances**
**For the period ended**
**02/28/25**

| Expenditures and Other Uses: | Original Budget | Transfers In/(Out) | Revised Budget | Expenditure | Encumbrance | Variance Over/(Under) | % |
|---|---|---|---|---|---|---|---|
| General government | 29,061,569 | 4,699,626 | 33,761,195 | 23,468,066 | 1,951,202 | 8,341,926 | 75% |
| Public safety | | | | | | | |
| Police | 58,517,400 | - | 58,517,400 | 37,474,426 | 1,020,454 | 20,022,520 | 66% |
| Fire | 28,750,291 | - | 28,750,291 | 19,128,450 | 357,969 | 9,263,871 | 68% |
| Centralized Dispatch | 2,273,132 | - | 2,273,132 | 1,770,410 | 21,956 | 480,767 | 79% |
| Other | 5,197,368 | - | 5,197,368 | 3,098,645 | 260,433 | 1,838,290 | 65% |
| Health and Welfare | 4,875,332 | - | 4,875,332 | 2,519,098 | 226,759 | 2,129,475 | 56% |
| Public works | 12,436,838 | - | 12,436,838 | 9,566,812 | 1,013,060 | 1,856,965 | 85% |
| Education | 627,288,835 | 19,324,201 | 646,613,036 | 376,937,206 | 30,479,031 | 239,196,799 | 63% |
| Culture and recreation | 18,845,295 | - | 18,845,295 | 11,196,176 | 1,691,286 | 5,957,833 | 68% |
| Pension and fringe | 101,453,172 | 500,000 | 101,953,172 | 89,710,902 | 331,015 | 11,911,254 | 88% |
| State and district assessments | 3,806,569 | - | 3,806,569 | 2,522,885 | 51,721 | 1,231,963 | 68% |
| Debt Service | 23,143,037 | - | 23,143,037 | 11,206,131 | - | 11,936,906 | 48% |
| Pay as you go Capital | 4,989,680 | - | 4,989,680 | 505,082 | 361,438 | 4,123,160 | 17% |
| Other Financing Use - Trash Enterprise Supplement | 8,078,917 | - | 8,078,917 | 8,078,917 | - | - | 100% |
| Total Expenditures and Other Uses | 928,717,433 | 24,523,827 | 953,241,260 | 597,183,206 | 37,766,325 | 318,291,729 | 67% |

CITY OF SPRINGFIELD, MASSACHUSETTS

Yearly Comparision Revenue Vs. Expenditures
For the period ended
02/28/25 vs 02/28/24

| Revenues and Other Sources: | FY 2025 Actual | FY 2024 Actual | Increase/ (Decrease) | Comments |
|---|---|---|---|---|
| Real Estate & Personal Property Taxes | $ 197,018,527 | $ 186,409,533 | $ 10,608,994 | |
| Tax Liens | 983,610 | 986,648 | (3,037) | |
| Motor Vehicle Excise | 5,236,725 | 5,628,271 | (391,547) | |
| Penalties, interest and other taxes | 4,058,301 | 4,350,259 | (291,958) | |
| Charges for Services | 9,249,208 | 8,791,569 | 457,639 | |
| Intergovernmental | 386,583,050 | 365,610,779 | 20,972,271 | *Increase in Chapter 70 State Aid* |
| Licenses and Permits | 4,038,626 | 3,864,245 | 174,381 | |
| Fines and Forfeits | 186,470 | 311,699 | (125,229) | |
| Interest earned on Investments | 6,442,188 | 5,862,507 | 579,681 | |
| Miscellaneous | 5,839,623 | 8,421,320 | (2,581,697) | *MGM Revenue* |
| Net School Spending Shortfall | 19,004,078 | 21,189,516 | (2,185,438) | |
| Stabilization Reserves | 4,518,927 | 2,284,816 | 2,234,111 | *Retirement Special Act & Law Settlements* |
| Free Cash to Reduce the Tax Rate | 4,000,000 | 7,000,000 | (3,000,000) | |
| Other Financing Sources | 3,375,000 | 7,234,376 | (3,859,376) | *Free Cash* |
| Total Revenues and Other Sources | 650,534,333 | 627,945,537 | 22,588,796 | |

Expenditures and Other Uses:

| | | | | |
|---|---|---|---|---|
| General government | 25,419,268 | 20,972,779 | 4,446,489 | |
| Public safety | | | | |
| Police | 38,494,880 | 40,404,779 | (1,909,899) | |
| Fire | 19,486,419 | 19,494,683 | (8,263) | |
| Centralized Dispatch | 1,792,365 | 1,382,951 | 409,414 | |
| Other | 3,359,078 | 3,158,246 | 200,832 | |
| Health and Welfare | 2,745,857 | 2,577,087 | 168,769 | |
| Public works | 10,579,872 | 10,189,546 | 390,326 | |
| Education | 407,416,237 | 381,487,630 | 25,928,607 | |
| Culture and recreation | 12,887,462 | 12,747,636 | 139,826 | |
| Pension and fringe | 90,041,918 | 83,122,216 | 6,919,701 | *Increase in Pension Payment.* |
| State and district assessments | 2,574,606 | 2,502,808 | 71,798 | |
| Debt Service | 11,206,131 | 14,056,856 | (2,850,725) | |
| Pay as you go Capital | 866,520 | 2,847,695 | (1,981,174) | |
| Trash Enterprise Supplement | 8,078,917 | 7,266,762 | 812,155 | *Increase in GF Trash Supplement* |
| Total Expenditures and Other Uses | 634,949,531 | 602,211,675 | 32,737,856 | |
| Totals | $ 15,584,802 | $ 25,733,862 | $ (10,149,061) | |

Attachment: February Rev Exp Report (8579 : February Revenue Vs. Expenditure Report)

# City Council

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Gladys Oyola-Lopez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8531

# Confirmation of the Re-Appointment of Vanessa Otero to the Water and Sewer Commission

By the City Council of the City of Springfield, Massachusetts:
Notice having been given and a public hearing held, as provided by law,

IT IS HEREBY ORDERED:

That the , be and it is hereby granted a location for and permission to

Confirmation of the Re-Appointment of Vanessa Otero to the Water and Sewer Commission

Also that permission be and hereby granted said {ResUserUserLookup1} to complete the above request.

I hereby certify that the foregoing order was adopted at a meeting of the City Council of the City of Springfield, Massachusetts held on April 7, 2025

_____
City Clerk

We hereby certify that on , at , at a public hearing was held on the petition of the for permission to complete the above mentioned request.

_____
City Clerk

I hereby certify that the foregoing is a true copy of a location order and certificate of hearing with notice adopted by the City Council of the City of Springfield, Massachusetts, on the April 7, 2025, and recorded with the records of location orders of said city. This certified copy is made under the provision of Chapter 166 of the General Laws and any additions thereto or amendments thereof.

Attest:

_____
City Clerk

Attachment: Vanessa Otero W&S Appointment Letter - 3-11-25 (8531 : Confirmation of the Re-Appointment of Vanessa Otero to the Water and

# THE CITY OF SPRINGFIELD, MASSACHUSETTS

MAYOR DOMENIC J. SARNO

*HOME OF THE BASKETBALL HALL OF FAME*

March 11, 2025

Gladys Oyola, City Clerk
City of Springfield
36 Court Street
Springfield, MA 01103

I hereby reappoint Vanessa Otero of 30 ½ Mattoon Street, Springfield, Massachusetts to serve as a member of the Springfield Water and Sewer Commission, for an unexpired term until March 11, 2028 and I certify that, in my opinion, Vanessa Otero is a person specially fitted by education, training and experience to perform the duties of said office, and that I make the appointment solely in the interest of the City.

Respectfully,

Domenic J. Sarno
Mayor

# City Council

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Gladys Oyola-Lopez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8532

# Confirmation of the Re-Appointment of Dan Rodriguez to the Water and Sewer Commission

By the City Council of the City of Springfield, Massachusetts:
Notice having been given and a public hearing held, as provided by law,

IT IS HEREBY ORDERED:

That the , be and it is hereby granted a location for and permission to

Confirmation of the Re-Appointment of Dan Rodriguez to the Water and Sewer Commission

Also that permission be and hereby granted said {ResUserUserLookup1} to complete the above request.

I hereby certify that the foregoing order was adopted at a meeting of the City Council of the City of Springfield, Massachusetts held on April 7, 2025

_____
City Clerk

We hereby certify that on , at , at a public hearing was held on the petition of the for permission to complete the above mentioned request.

_____
City Clerk

I hereby certify that the foregoing is a true copy of a location order and certificate of hearing with notice adopted by the City Council of the City of Springfield, Massachusetts, on the April 7, 2025, and recorded with the records of location orders of said city. This certified copy is made under the provision of Chapter 166 of the General Laws and any additions thereto or amendments thereof.

Attest:

_____
City Clerk

Attachment: Dan Rodriguez W&S Appointment Letter (3-11-25) (8532 : Confirmation of the Re-Appointment of Dan Rodriguez to the Water and

**THE CITY OF SPRINGFIELD, MASSACHUSETTS**

MAYOR DOMENIC J. SARNO

***HOME OF THE BASKETBALL HALL OF FAME***

March 11, 2025

Gladys Oyola, City Clerk
City of Springfield
36 Court Street
Springfield, MA 01103

I hereby reappoint Daniel Rodriguez of 96 Maplewood Terrace, Springfield, Massachusetts to serve as a member of the Springfield Water and Sewer Commission, for an unexpired term until March 11, 2028 and I certify that, in my opinion, Daniel Rodriguez is a person specially fitted by education, training or experience to perform the duties of said office, and that I make the appointment solely in the interest of the City.

Respectfully,

Domenic J. Sarno
Mayor

# City Council

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Gladys Oyola-Lopez
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8533

# Confirmation of the Re-Appointment of Matthew Donnellan to the Water and Sewer Commission

By the City Council of the City of Springfield, Massachusetts:
Notice having been given and a public hearing held, as provided by law,

IT IS HEREBY ORDERED:

That the , be and it is hereby granted a location for and permission to

Confirmation of the Re-Appointment of Matthew Donnellan to the Water and Sewer Commission

Also that permission be and hereby granted said {ResUserUserLookup1} to complete the above request.

I hereby certify that the foregoing order was adopted at a meeting of the City Council of the City of Springfield, Massachusetts held on April 7, 2025

_____
City Clerk

We hereby certify that on , at , at a public hearing was held on the petition of the for permission to complete the above mentioned request.

_____
City Clerk

I hereby certify that the foregoing is a true copy of a location order and certificate of hearing with notice adopted by the City Council of the City of Springfield, Massachusetts, on the April 7, 2025, and recorded with the records of location orders of said city. This certified copy is made under the provision of Chapter 166 of the General Laws and any additions thereto or amendments thereof.

Attest:

_____
City Clerk

Attachment: Matthew Donnellan W&S Appointment Letter - 3-11-25 (8533 : Confirmation of the Re-Appointment of Matthew Donnellan to the

**THE CITY OF SPRINGFIELD, MASSACHUSETTS**

MAYOR DOMENIC J. SARNO

***HOME OF THE BASKETBALL HALL OF FAME***

March 11, 2025

Gladys Oyola, City Clerk
City of Springfield
36 Court Street
Springfield, MA 01103

I hereby reappoint Matthew Donnellan of 149 Bairdcrest Road, Springfield, Massachusetts to serve as a member of the Springfield Water and Sewer Commission, for an unexpired term until March 11, 2028 and I certify that, in my opinion, Mr. Donnellan is a person specially fitted by education, training or experience to perform the duties of said office, and that I make the appointment solely in the interest of the City.

Respectfully,

Domenic J. Sarno
Mayor

**City Council**
36 Court Street
Springfield, MA 01103

**TABLED**

**PETITION (ID # 8498)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC 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: 04/07/25**

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.

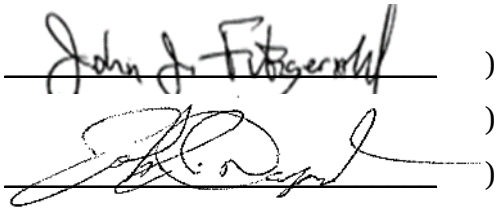
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

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.



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BOARD OF PUBLIC WORKS

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

EVERSOURCE ENERGY

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:

| Street Name | From | To |
|---|---|---|
| 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

Attachment: Springfield City Council Letter - Westford Cir (8498 : EVERSOURCE -Westford Cir)

Westford Cir - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023

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| 38 OF 39 | MA CORROSION DETAILS (3 OF 3) |
| 39 OF 39 | BLANK GRIDDED SHEET |


**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' |

# EVERSOURCE ENERGY

WORK SCOPE

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

ISSUED FOR REVIEW

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

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

Revision/Status

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 |

Attachment: Westford Cir - Pro Drawing - Overview (8498 : EVERSOURCE -Westford Cir)
C:\users\kquinton\projectwise\eflsl\d0434383\

Oct 07, 2024 - 2:14pm

Westford Cir - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023

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

**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 |

ISSUED FOR REVIEW

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

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

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 |

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Oct 07, 2024 - 2:14pm
Attachment: Westford Cir - Pro Drawing - Overview (8498 : EVERSOURCE -Westford Cir)

## DRAWING LEGEND

### Gas Main Symbology

REGULATING STATION 50' BOUNDARY

EXISTING GAS MAIN — G — G —

PROPOSED GAS MAIN — G — G —

GAS MAIN TO BE ABANDONED — G — G —

GAS MAIN WITH SERVICE TRANSFERS — G — G —

GAS MAIN WITH PRESSURE INCREASE — G — G —

RIGHT-OF-WAY

ELECTRIC — E — E —

WATER LINE — W — W —

SEWER LINE — S — S —

TELEPHONE — T — T —

DRAIN LINE — D — D —

FENCE LINE — x — x — x — x — x —

### 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 |
| R | Single Customer Regulator |
| M | Meter |
| MR | Meter with Regulator |
| | Test Point (Station) |
| T | Gas Service Tie-over |
| R | Gas Service Replacement |
| MMO | Meter Move Out |

### Swing Tie Symbology

| | |
|---|---|
| T | Telephone Manhole |
| D | Drain Manhole |
| E | Electric Manhole |
| | Catch Basis |
| S | Sewer Manhole |
| | Fire Hydrant |
| | Utility Pole |
| | Property Marker |
| T | Telephone Pedestal |
| C | Television Pedestal |
| U | Unknown Manhole |
| | Water Box |
| | Water Gate |
| E | Electric Pedestal |
| | Iron Pin |
| | Light Pole |
| | INSIDE METER |
| | OUTSIDE METER |

ISSUED FOR REVIEW

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

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WESTFORD CIRCLE, SPRINGFIELD, MA

PROJECT # 25EG062 / WORK ORDER # TBD

LEGEND

SCALE: 1"=40' ON 22"X34" SHEET 03 OF 39

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

Westford Cir - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\users\kquinton\projectwise\stu\d0434383\
Oct 07, 2024 - 2:14pm
Attachment: Westford Cir - Pro Drawing - Overview (8498 : EVERSOURCE -Westford Cir)

Westford Cir - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023

MATCH LINE - SHEET 5 OF 39

MIDDLESEX ST
SUFFOLK ST
BRISTOL ST
NORFOLK ST
WESTFORD CIR

6" CILP-1923
6" CILP-1921
6" PHMP-2017
6" CILP-1911
6" CILP-1928
6" PHLP-2019
6" CILP-1925
6" CILP

OC~55'-4" PHMP
OC~58'-4" PHMP
OC~2,173'-4" PHMP
OC~50'-4" PHMP
OC~70'-4" PHMP
OC~247'-4" PHMP
OC~60'-4" PHMP

SEE DETAIL A ON SHEET #7
SEE DETAIL B ON SHEET #8
SEE DETAIL C ON SHEET #9
SEE DETAIL D ON SHEET #10
SEE DETAIL E ON SHEET #11
SEE DETAIL G ON SHEET #13
SEE DETAIL H ON SHEET #14
SEE DETAIL I ON SHEET #15
SEE DETAIL J ON SHEET #16
SEE DETAIL K ON SHEET #17

KEY MAP
SCALE: N.T.S.

Attachment: Westford Cir - Pro Drawing - Overview (8498 : EVERSOURCE -Westford Cir)

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

Revision/Status

ISSUED FOR REVIEW

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

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 |

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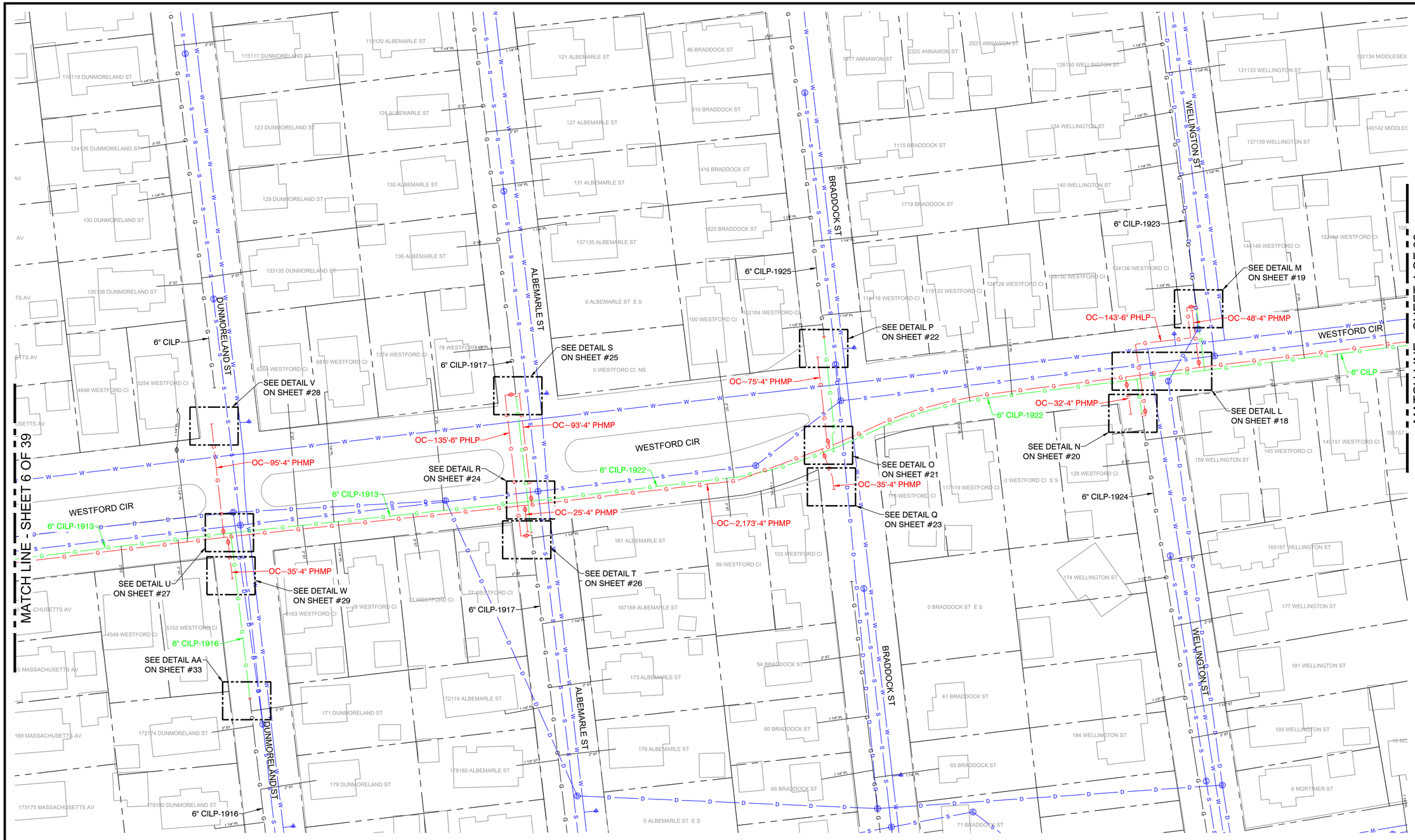
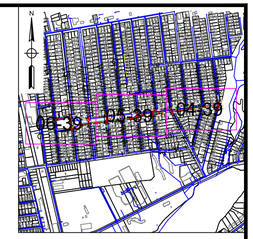
Oct 07, 2024 - 2:14pm




KEY MAP
SCALE: N.T.S.

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

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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 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 |

Westford Cir - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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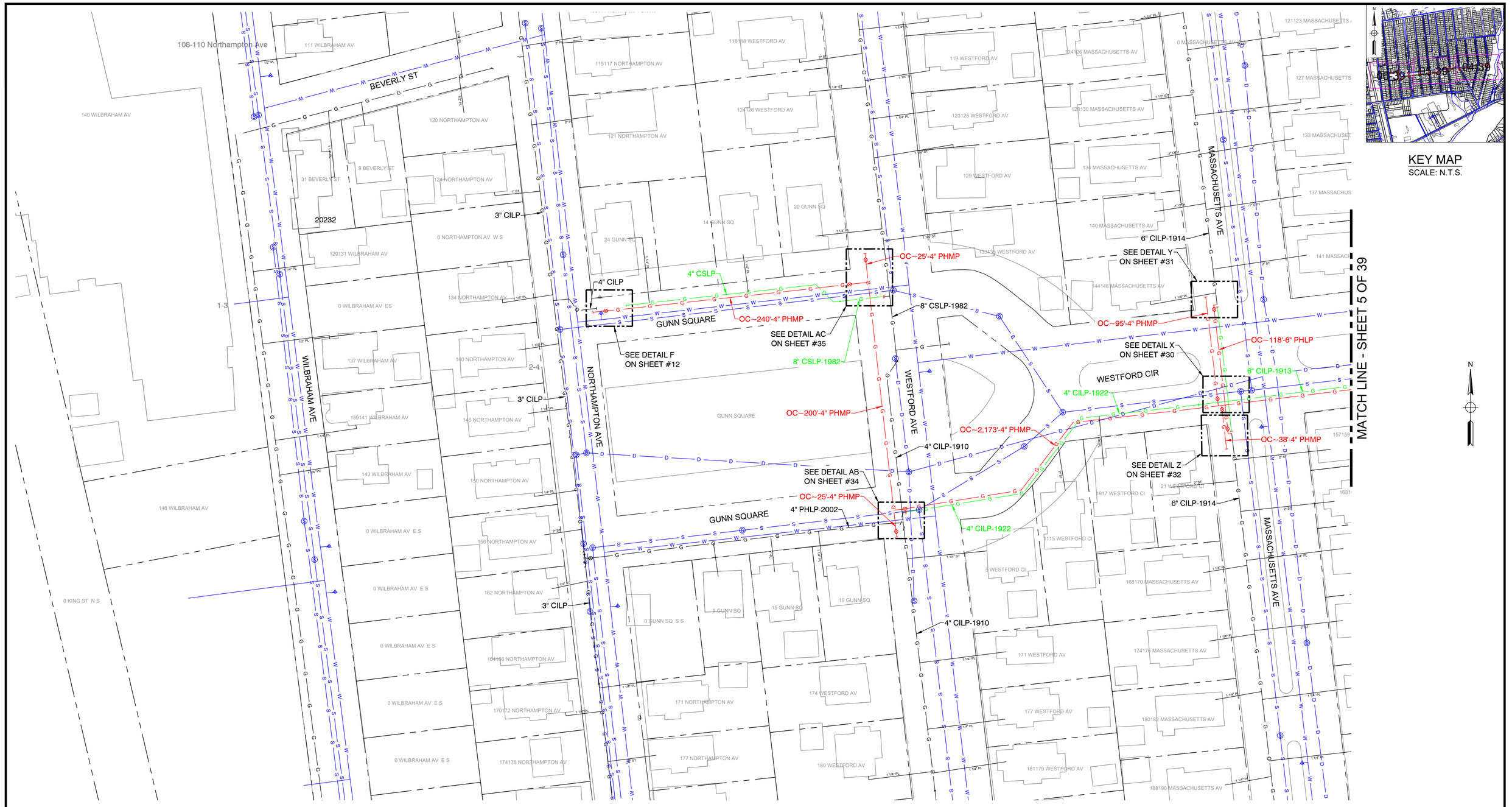
Oct 07, 2024 - 2:14pm

Attachment: Westford Cir - Pro Drawing - Overview (8498 : EVERSOURCE -Westford Cir)




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

Revision/Status

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811 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 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 |

Westford Cir - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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Oct 07, 2024 - 2:14pm
Attachment: Westford Cir - Pro Drawing - Overview (8498 : EVERSOURCE -Westford Cir)

**City Council**
36 Court Street
Springfield, MA 01103

**TABLED**

**PETITION (ID # 8499)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC 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: 04/07/25** |

SENT TO MAINTENANCE AND ECONOMIC DEVELOPMENT COMMITTEES

## 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 |
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| 13 OF 27 | MA PREPARATORY AND FINAL TIE-IN DETAILS |
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| 19 OF 27 | MA PREPARATORY AND FINAL TIE-IN DETAILS |
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| 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 |

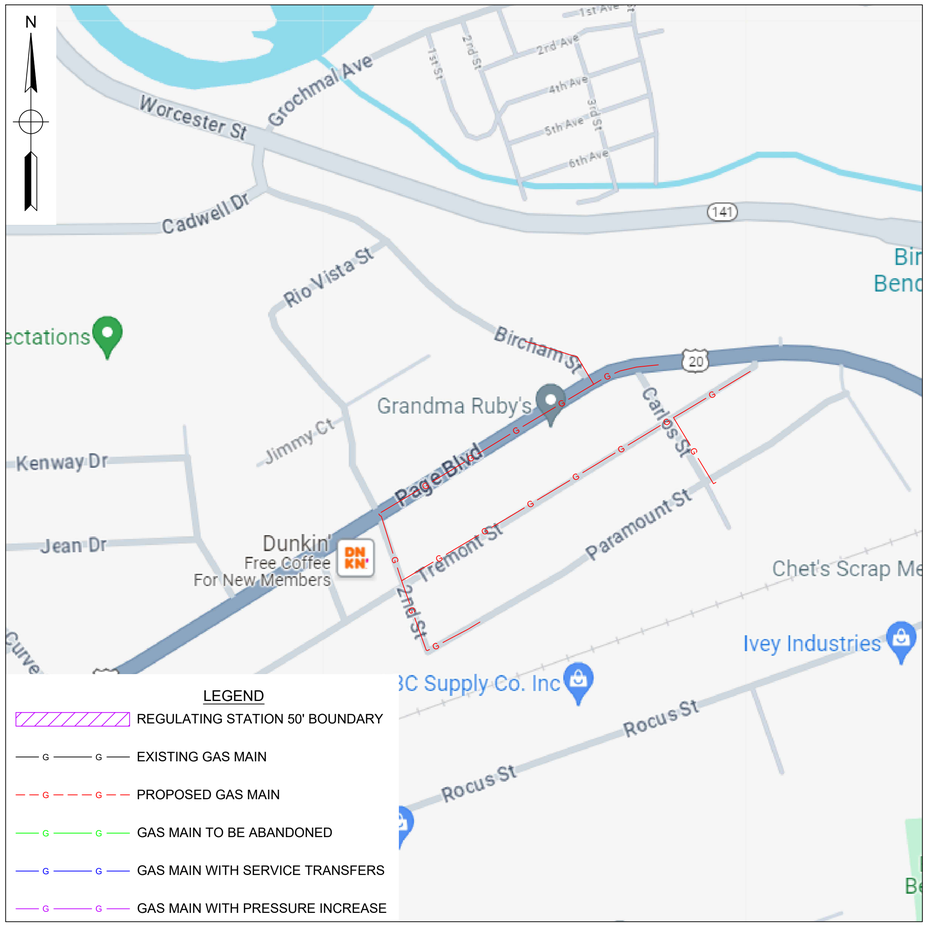

**PROJECT SUMMARY TABLE**
**INSTALLATION INFORMATION**

| 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

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

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.07.17 13:57:03-04'00'

TRC
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811
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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

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 |

EGMA DRAWING TEMPLATE - 02-09-2023
Paramount St - Pro Drawing Rev0.dwg
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Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

## 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.

OVERVIEW KEY MAP
NOT TO SCALE

ISSUED FOR CONSTRUCTION

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

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Know what's below. Call before you dig.

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

**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 |

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

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 |

Paramount St - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
C:\users\kquinton\projectwise\fs\id\03759431
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

## DRAWING LEGEND

### Gas Main Symbology

REGULATING STATION 50' BOUNDARY

EXISTING GAS MAIN — G — G —

PROPOSED GAS MAIN — G — G —

GAS MAIN TO BE ABANDONED — G — G —

GAS MAIN WITH SERVICE TRANSFERS — G — G —

GAS MAIN WITH PRESSURE INCREASE — G — G —

RIGHT-OF-WAY

ELECTRIC — E — E —

WATER LINE — W — W —

SEWER LINE — S — S —

TELEPHONE — T — T —

DRAIN LINE — D — D —

FENCE LINE — x — x — x — x — x — x —

### 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 |
| R | Single Customer Regulator |
| M | Meter |
| MR | Meter with Regulator |
| | Test Point (Station) |
| T | Gas Service Tie-over |
| R | Gas Service Replacement |
| MMO | Meter Move Out |

### Swing Tie Symbology

| | |
|---|---|
| T | Telephone Manhole |
| D | Drain Manhole |
| E | Electric Manhole |
| | Catch Basis |
| S | Sewer Manhole |
| | Fire Hydrant |
| | Utility Pole |
| | Property Marker |
| T | Telephone Pedestal |
| C | Television Pedestal |
| U | Unknown Manhole |
| | Water Box |
| | Water Gate |
| E | Electric Pedestal |
| | Iron Pin |
| | Light Pole |
| | INSIDE METER |
| | OUTSIDE METER |

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DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER

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

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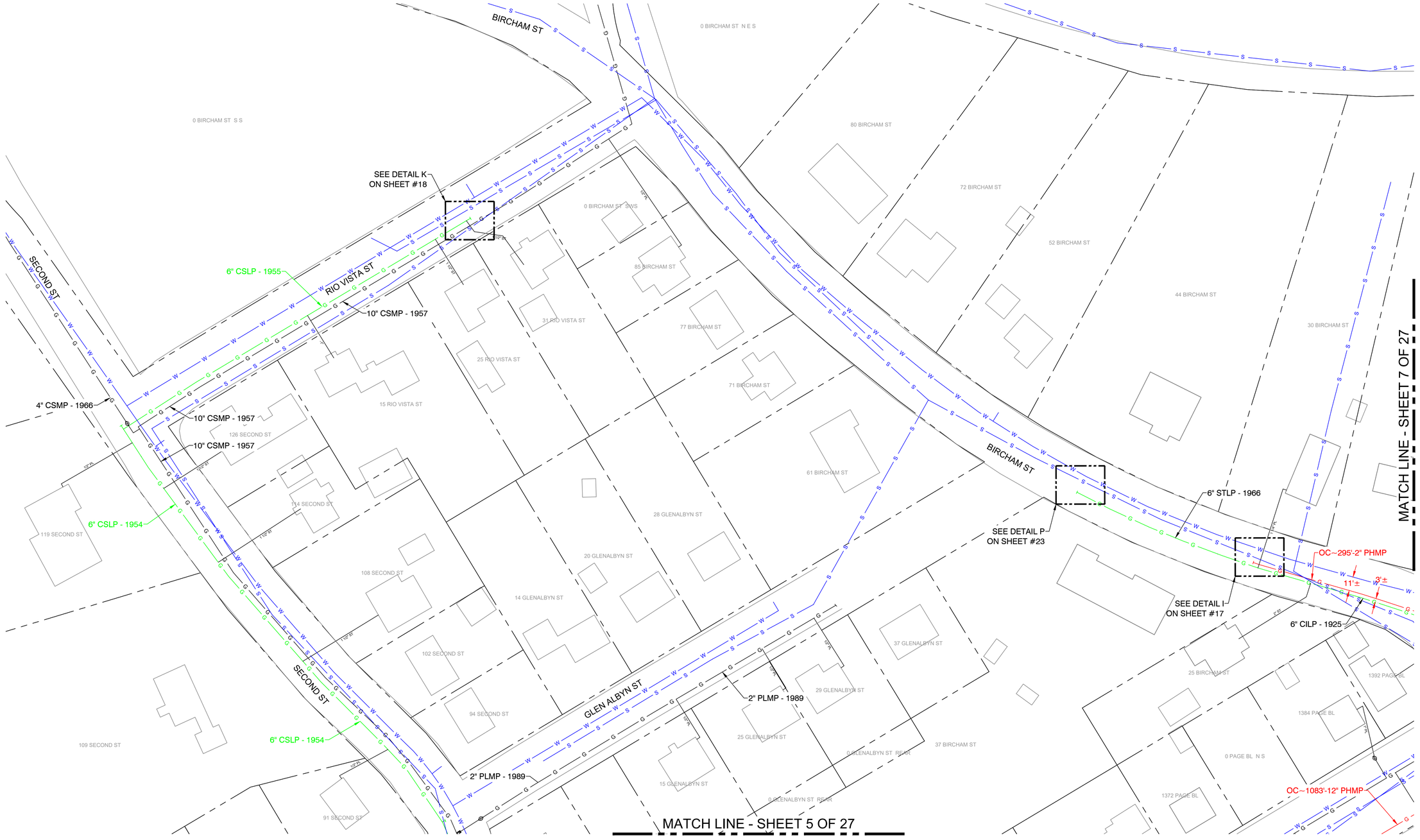

KEY MAP
SCALE: N.T.S.

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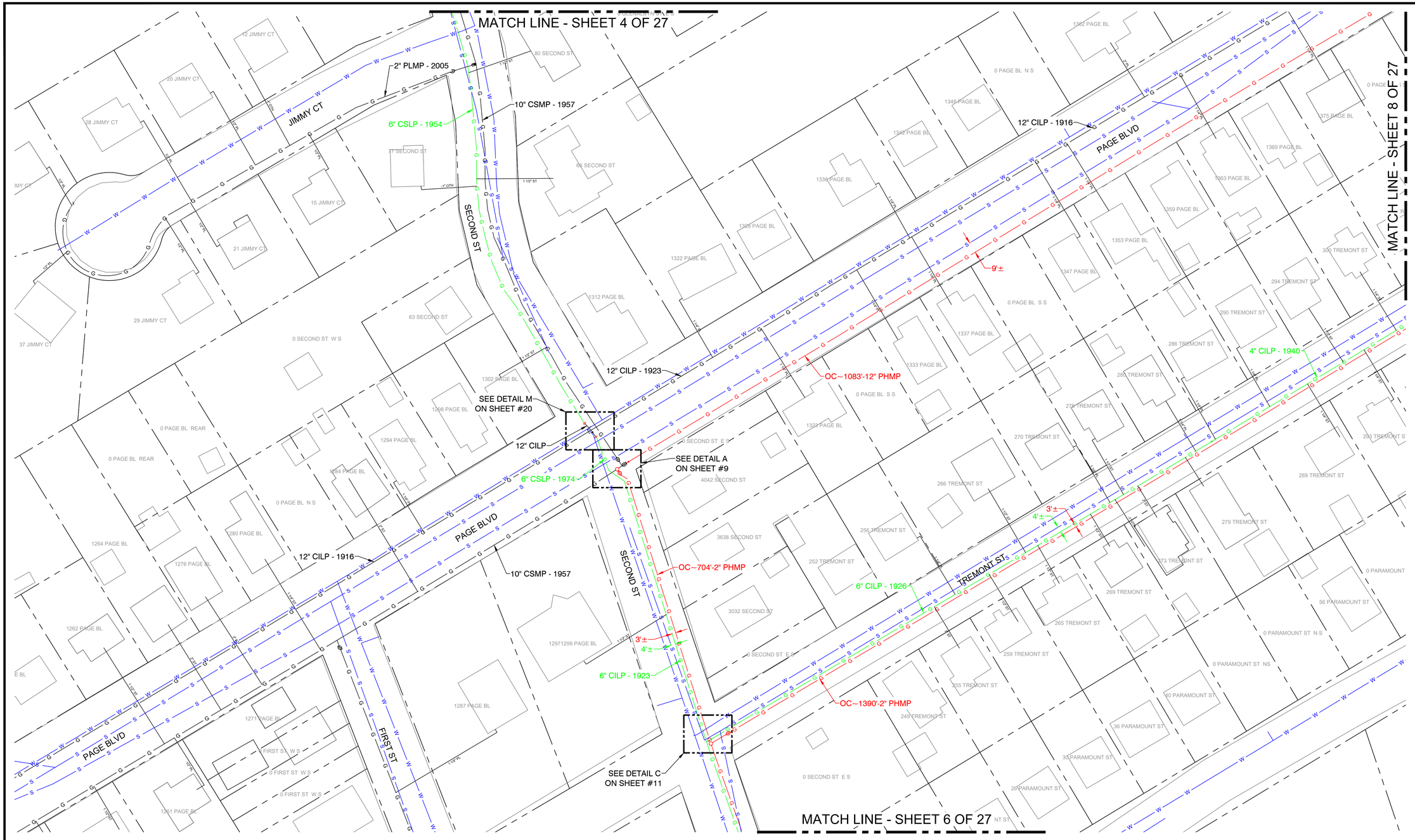

KEY MAP
SCALE: N.T.S.

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MATCH LINE - SHEET 5 OF 27

1253 PAGE BL
1247 PAGE BL
29 FIRST ST
184 TREMONT ST
178180 TREMONT ST
174176 TREMONT ST
TREMONT ST
0 SECOND ST W S
189 TREMONT ST
163203 TREMONT ST
160234 ROCUS ST
SECOND ST
0 PARAMOUNT ST N S
810 SECOND ST
24 SECOND ST
PARAMOUNT ST
1 PARAMOUNT ST
270 ROCUS ST
RAILROAD

10'±
3'±
3'±
6" CILP - 1923
7'±
3'±
6" CILP - 1923
OC~704'-2" PHMP
SEE DETAIL B
ON SHEET #10

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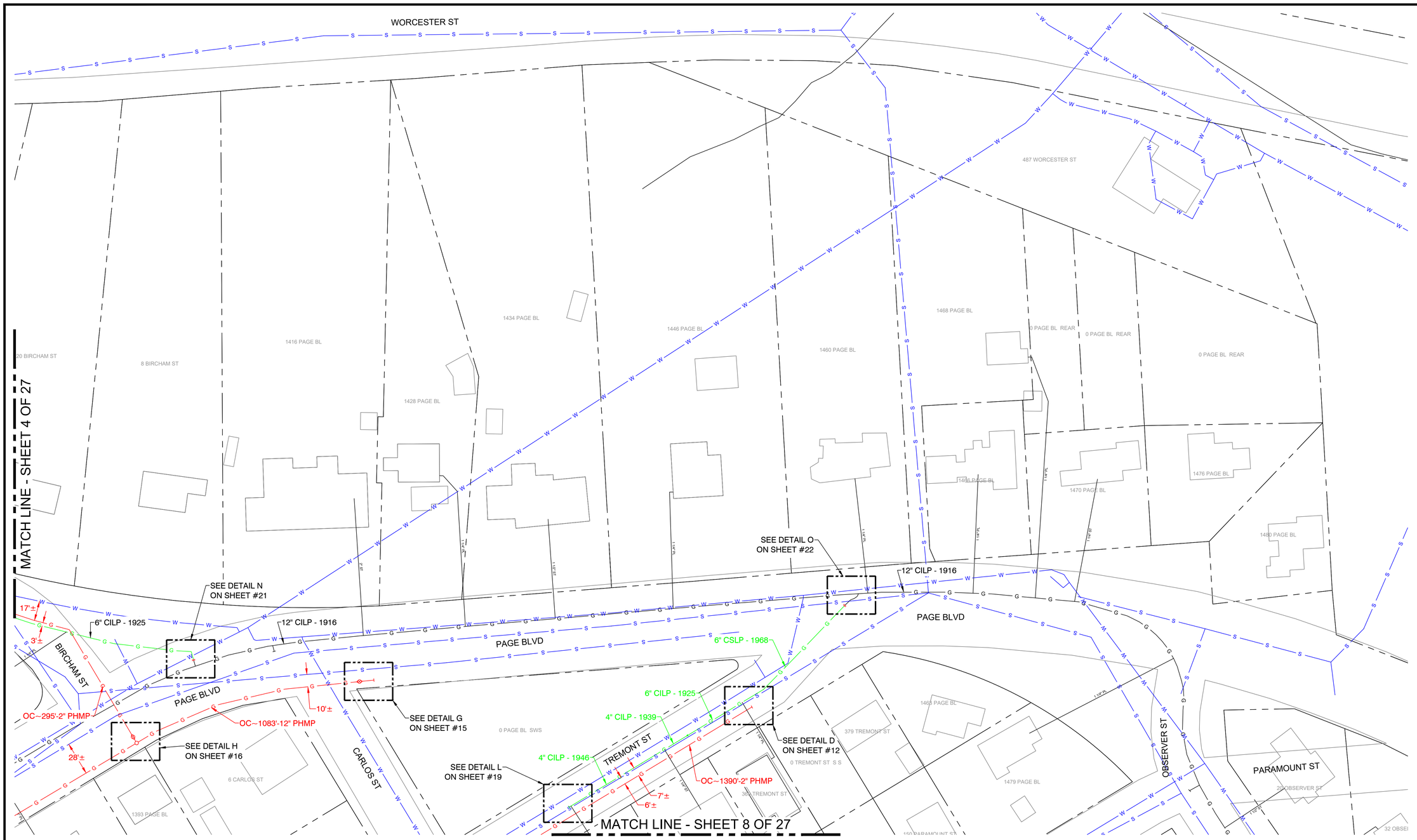

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MATCH LINE - SHEET 7 OF 27

SEE DETAIL E
ON SHEET #13

4" CILP - 1954
4" CILP - 1946
4" CILP - 1942
4" CILP - 1940
4" CSLP - 1954
1" CSLP

OC~274'-2" PHMP
OC~1390'-2" PHMP

3'±
4'±
10'±
3'±

SEE DETAIL F
ON SHEET #14

TREMONT ST
PARAMOUNT ST
CARLOS ST
OBSERVER ST

1383 PAGE BL
16 CARLOS ST
326 TREMONT ST
320 TREMONT ST
314 TREMONT ST
333 TREMONT ST
325 TREMONT ST
319 TREMONT ST
315 TREMONT ST
305 TREMONT ST
355 TREMONT ST
363 TREMONT ST
347 TREMONT ST
120 PARAMOUNT ST
40 CARLOS ST
90 PARAMOUNT ST
75 PARAMOUNT ST
0 PARAMOUNT ST N S
0 PARAMOUNT ST S S
139 PARAMOUNT ST
21 OBSERVER ST
31 OBSERVER ST
39 OBSERVER ST
49 OBSERVER ST
0 OBSERVER ST E S
5759 OBSERV

MATCH LINE - SHEET 5 OF 27

KEY MAP
SCALE: N.T.S.

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PROJECT LOCATION PLANS
SCALE: 1"=40' ON 22"X34" SHEET 08 OF 27

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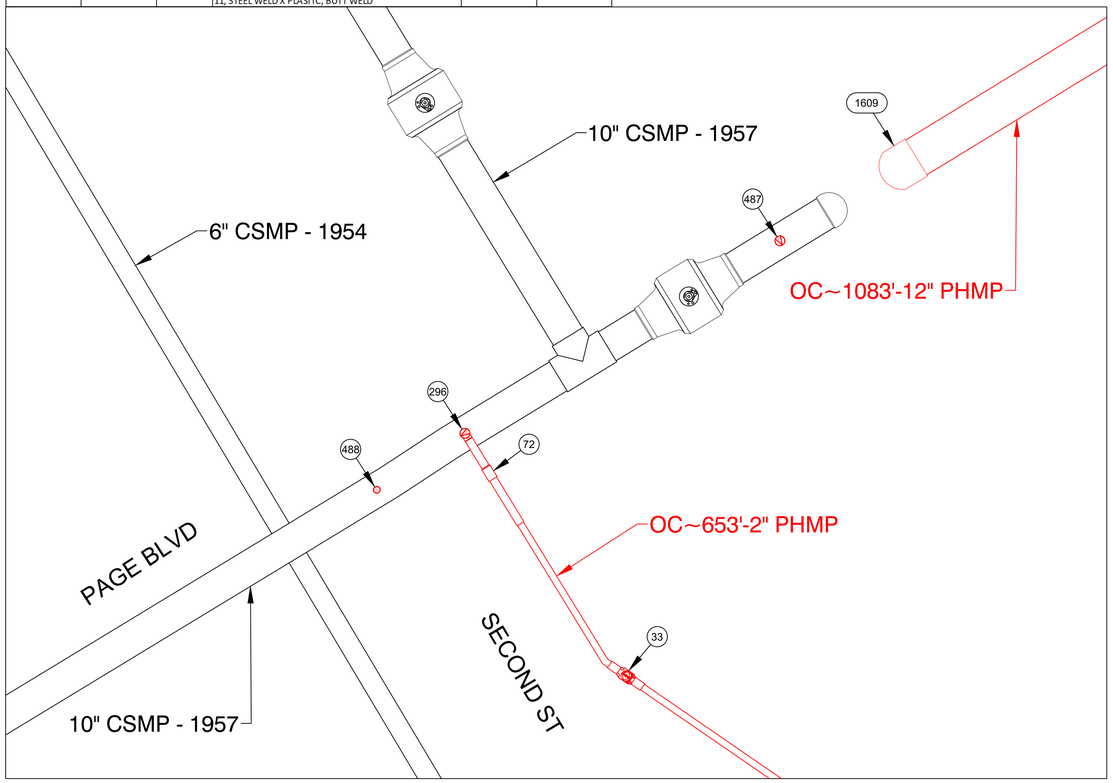
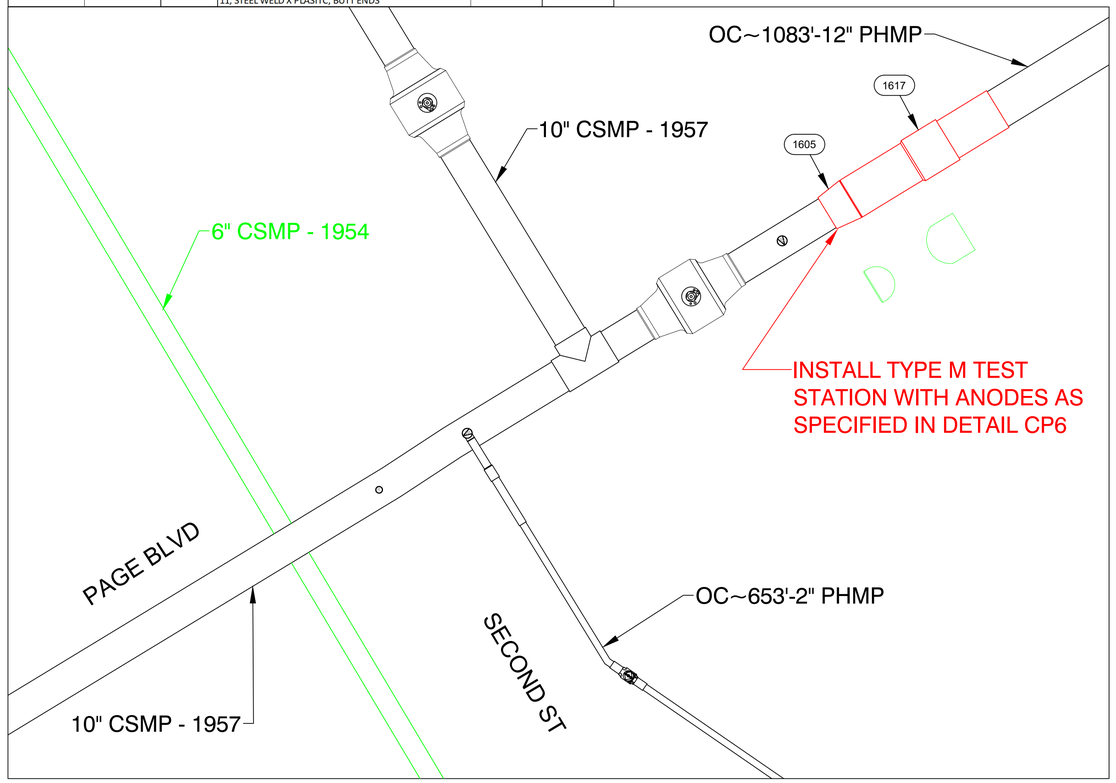
| PARAMOUNT ST, INDIAN ORCHARD, MA | | | | | DETAIL "A" PREPARATORY |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1609 | 10004163 | 581044 | FITTING,CAP, 12 IN 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 PLASITC, 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 |

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PROJECT # 25EG011 / WORK ORDER # 16660732
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 09 OF 27

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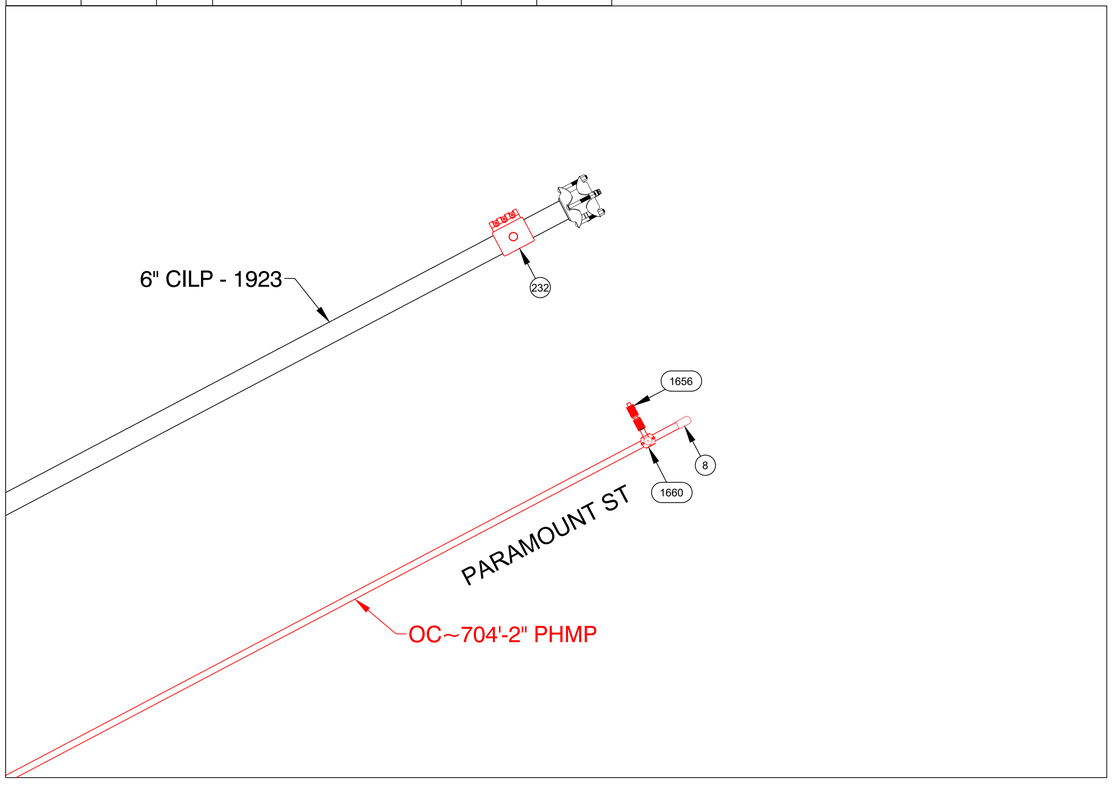
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC | 1 | EA |
| 1660 | MCJUREMA-000 | 602892 | FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055 | 1 | EA |
| 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
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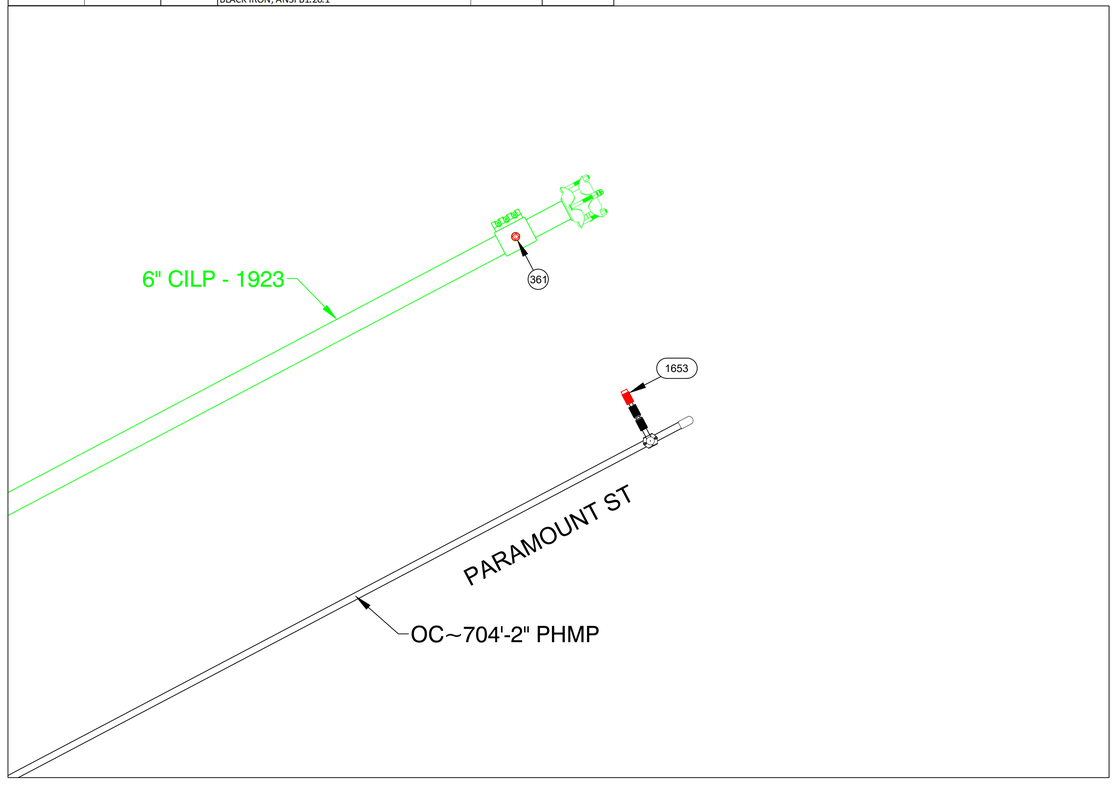
| PARAMOUNT ST, INDIAN ORCHARD, MA | | | | DETAIL "B" FINAL | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1653 | MCJUREMA-000 | 620808 | FITTING,CAP, LYCOFIT, 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 |

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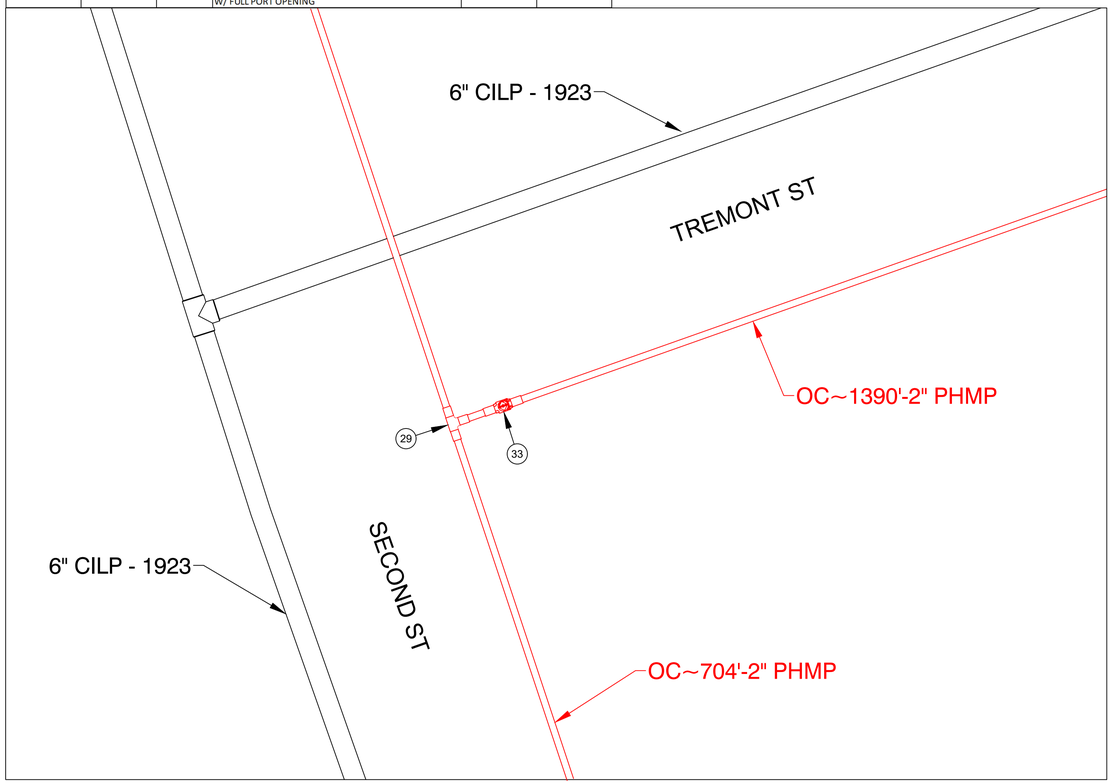
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 29 | 63078441 | 560705 | TEE,PIPE, 2 IN IPS SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 1 | EA |
| 33 | 14281726 | 562087 | VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING | 1 | EA |




PREPARATORY TIE-IN DETAIL C
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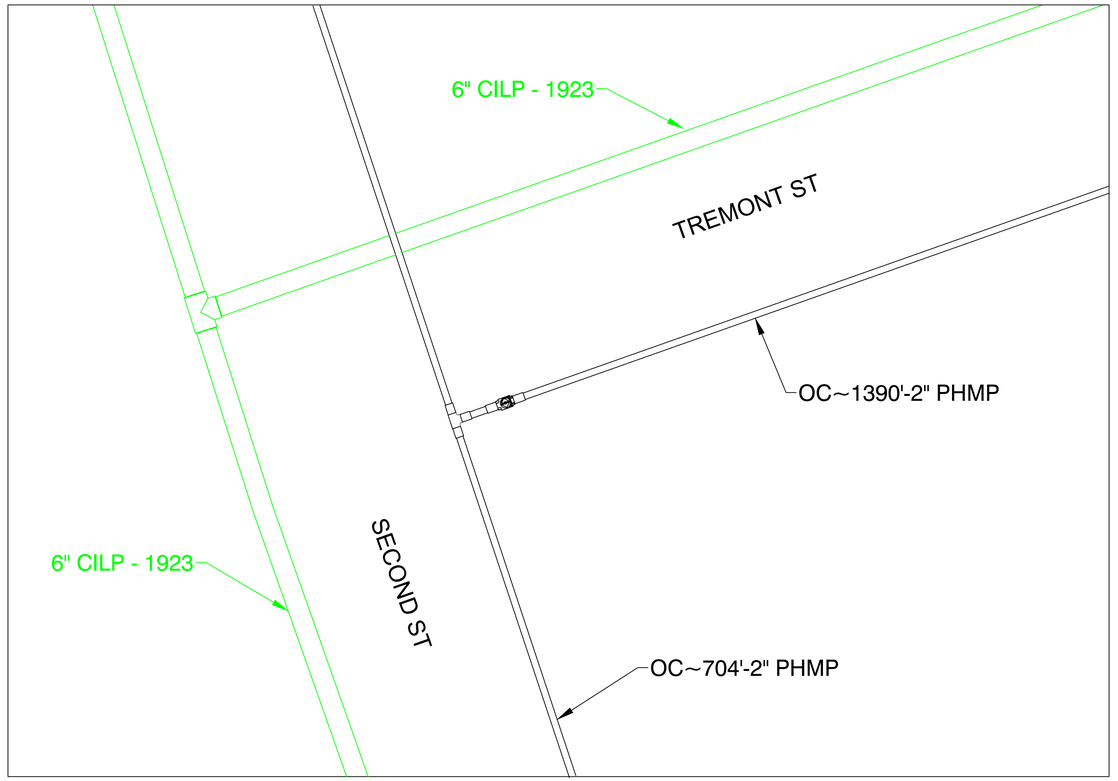


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PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 11 OF 27

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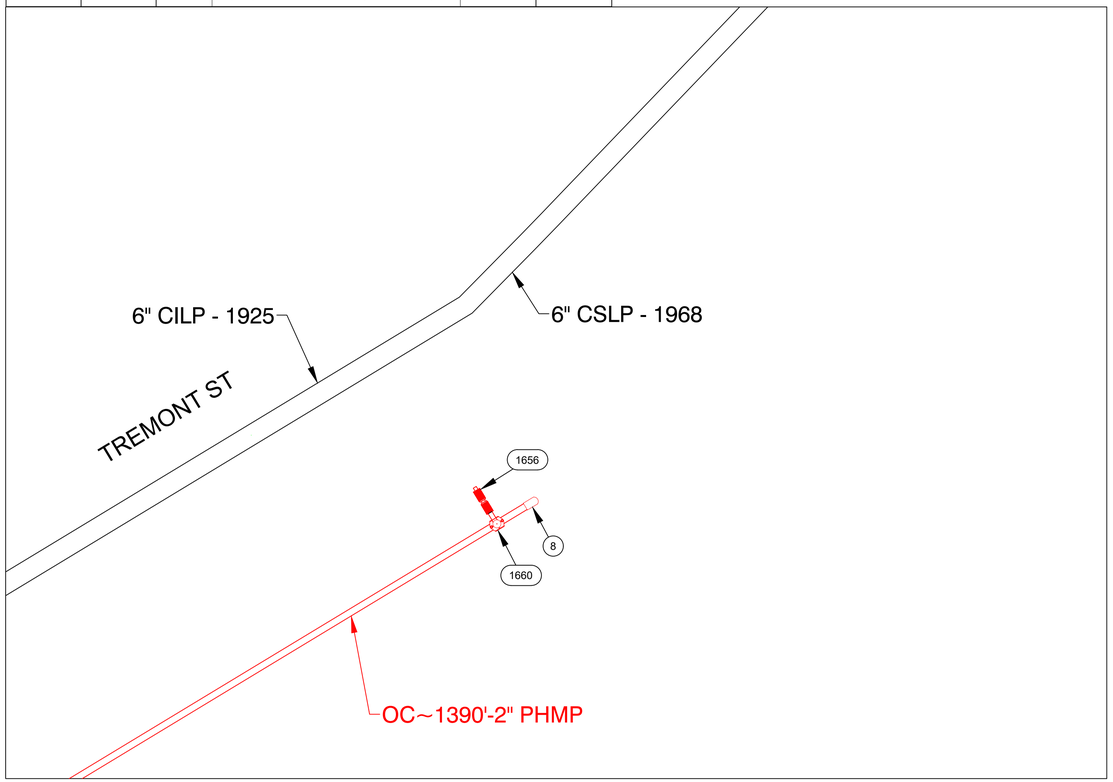
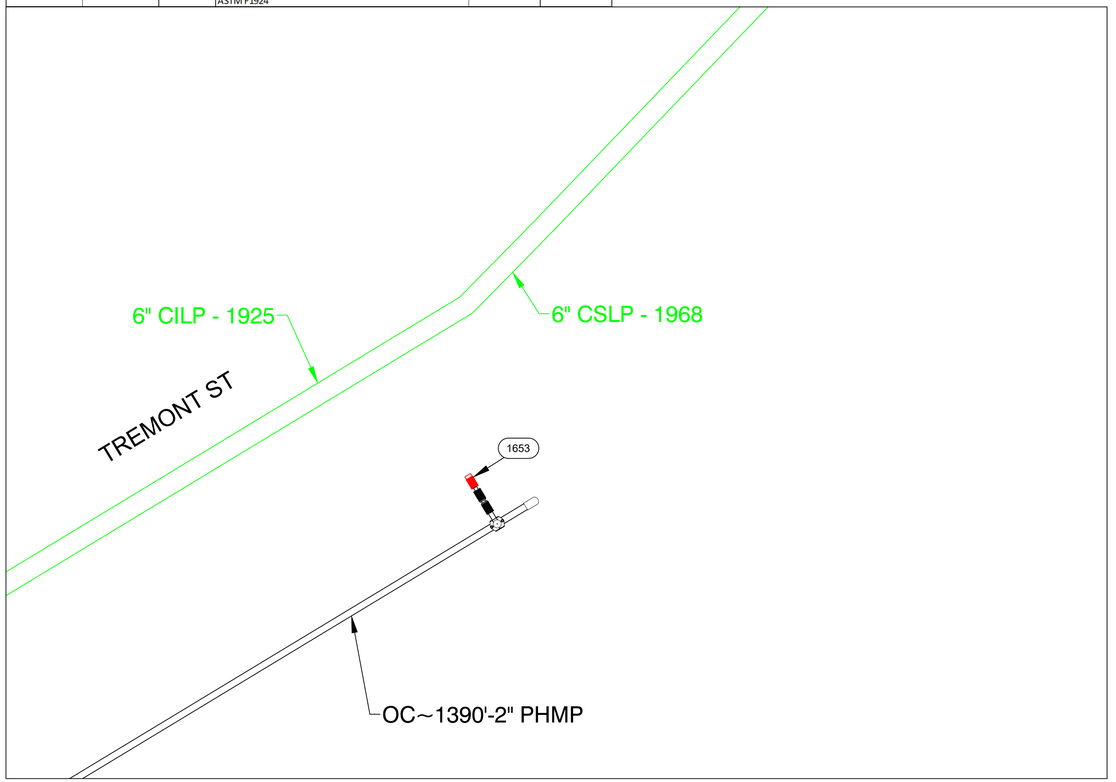
| PARAMOUNT ST, INDIAN ORCHARD, MA | | | | DETAIL "D" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, 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 CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.07.17 13:57:06-04'00'

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

Know what's below.
Call before you dig.

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

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 - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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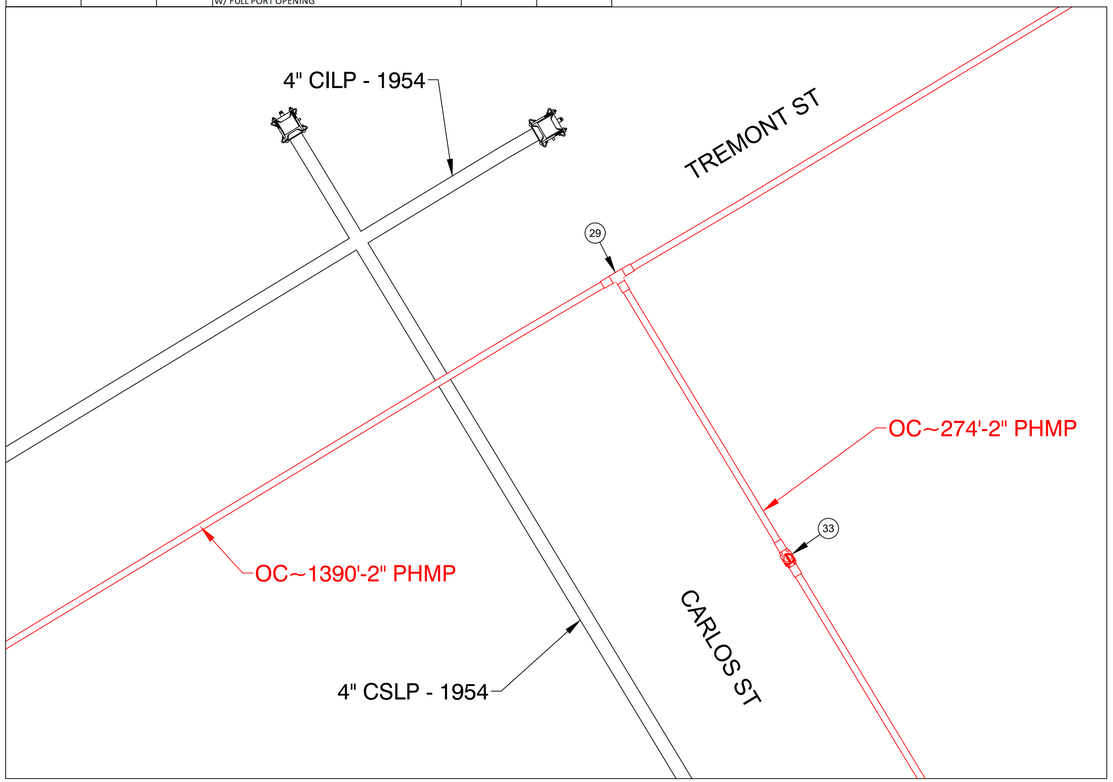
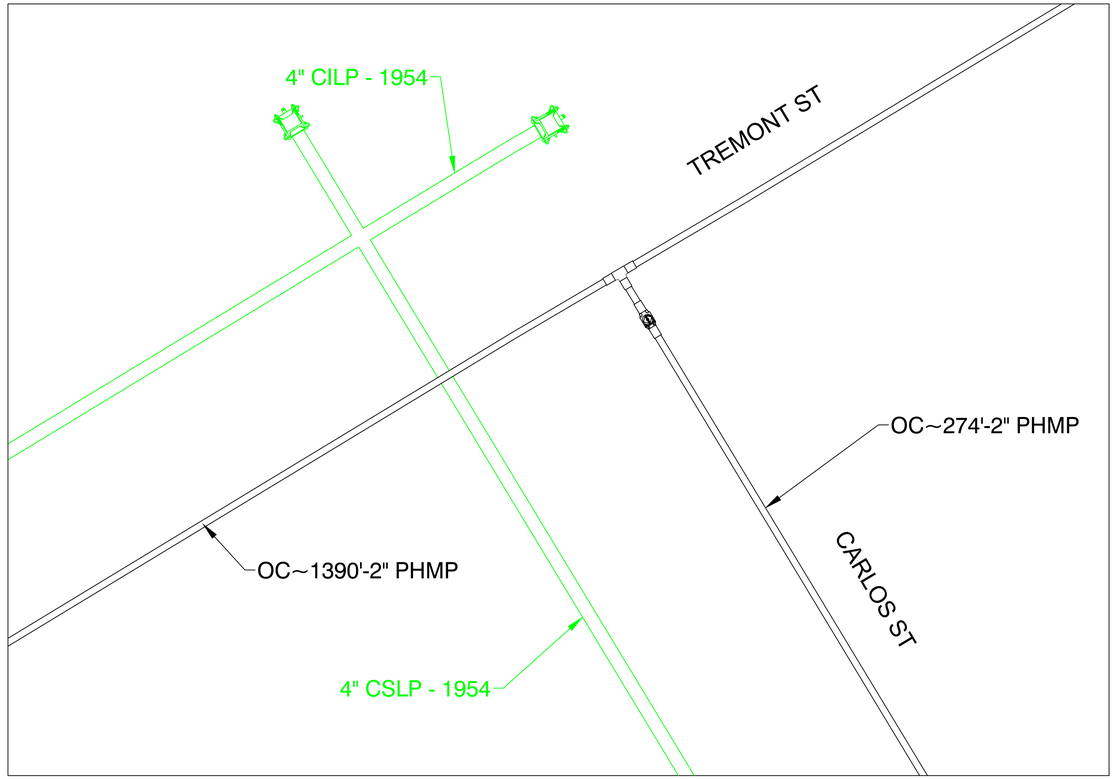
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

| 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

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061 PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E.
2024.07.17 13:57:07-04'00'

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

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

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. |
|---|---|---|---|
| TJ 05/16/2024 | KMQ 05/20/2024 | MA-SPR-PIP-25-009-13 | 0 |

Paramount St - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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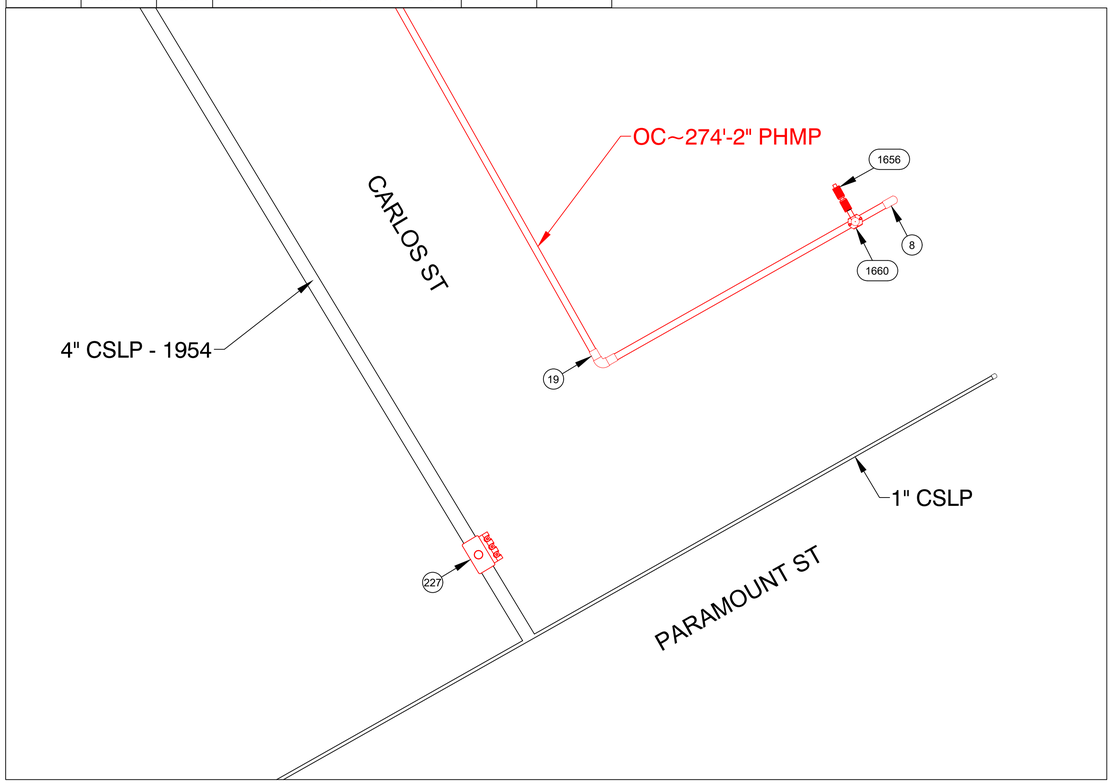
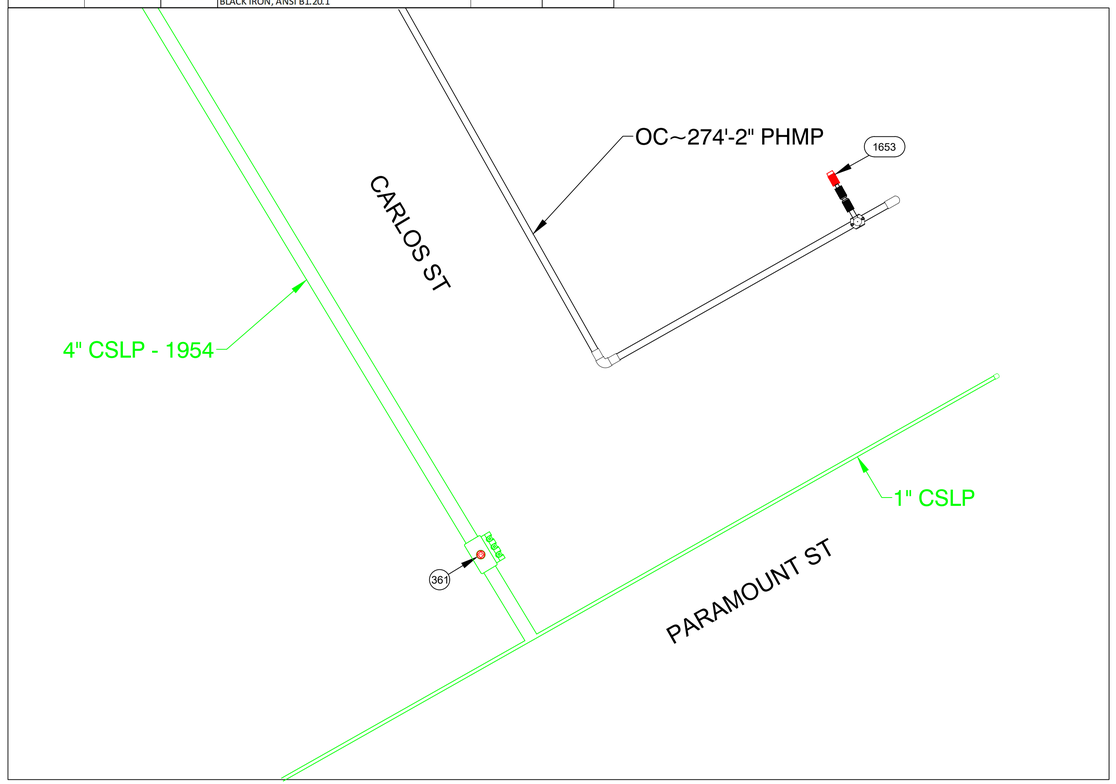
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

| 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

ISSUED FOR CONSTRUCTION

DANIEL D'ELETTO, P.E. 2024.07.17 13:57:07-04'00'

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

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

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. |
|---|---|---|---|
| TJ 05/16/2024 | KMQ 05/20/2024 | MA-SPR-PIP-25-009-14 | 0 |

Paramount St - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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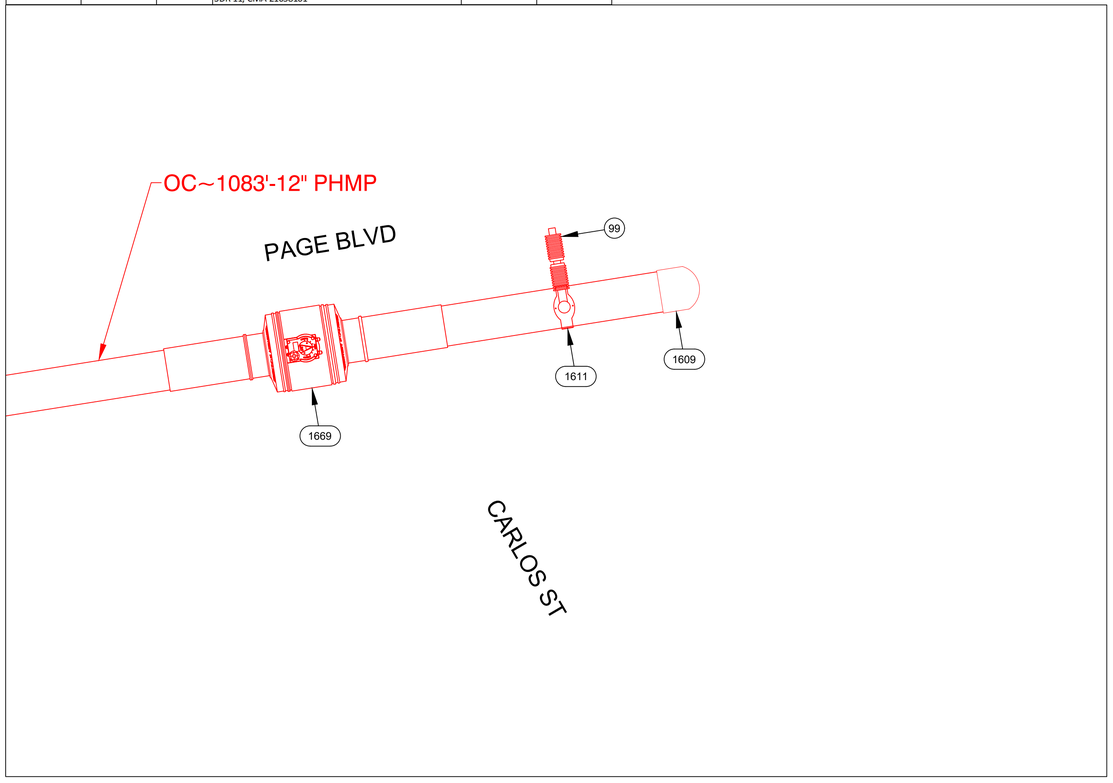
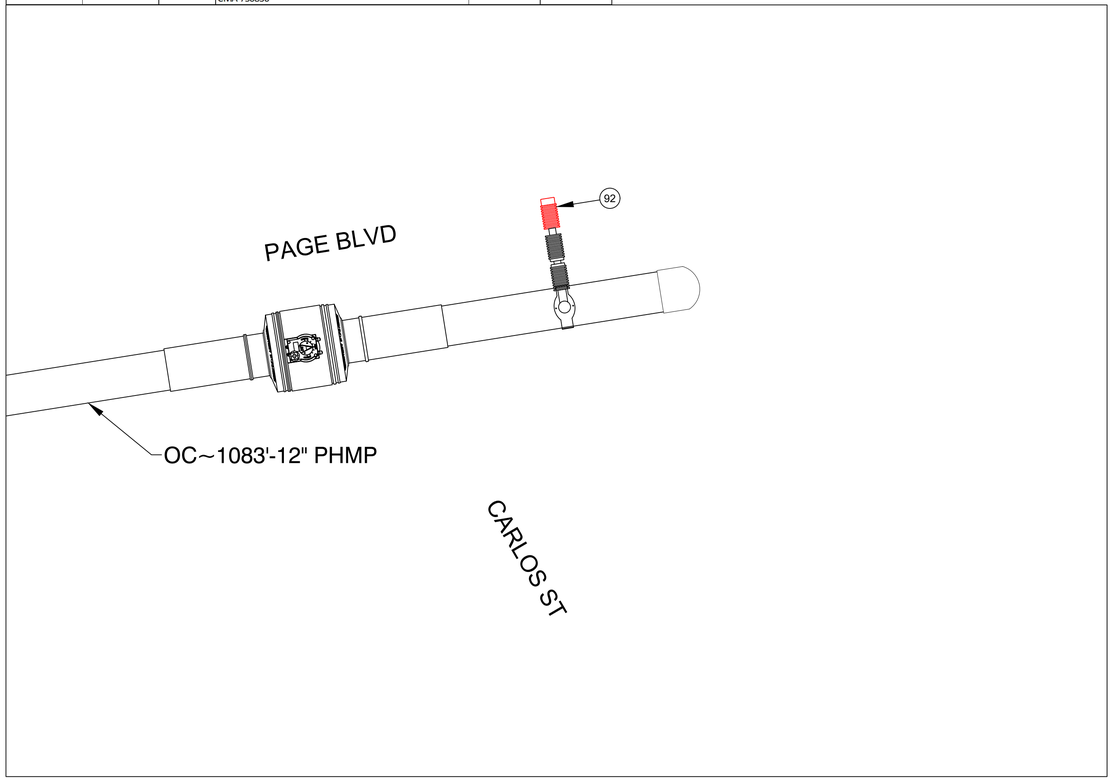
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

| 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

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.07.17 13:57:07-04'00'

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

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

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 - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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Jul 17, 2024 - 11:17am
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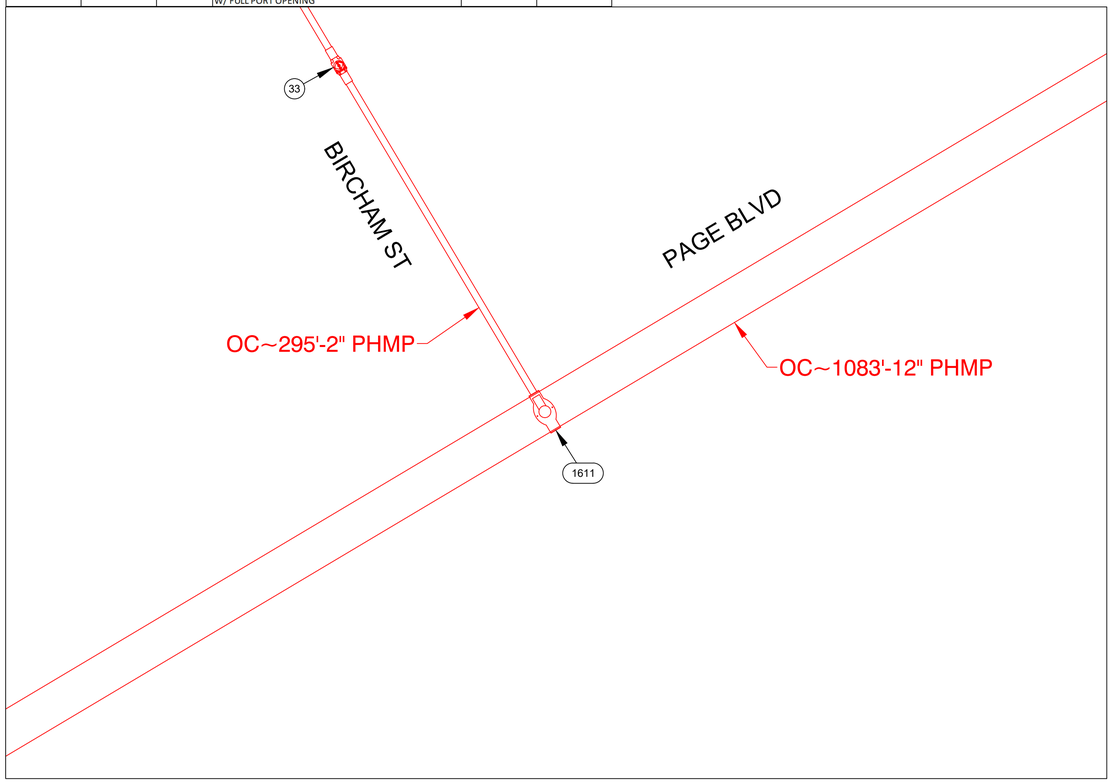
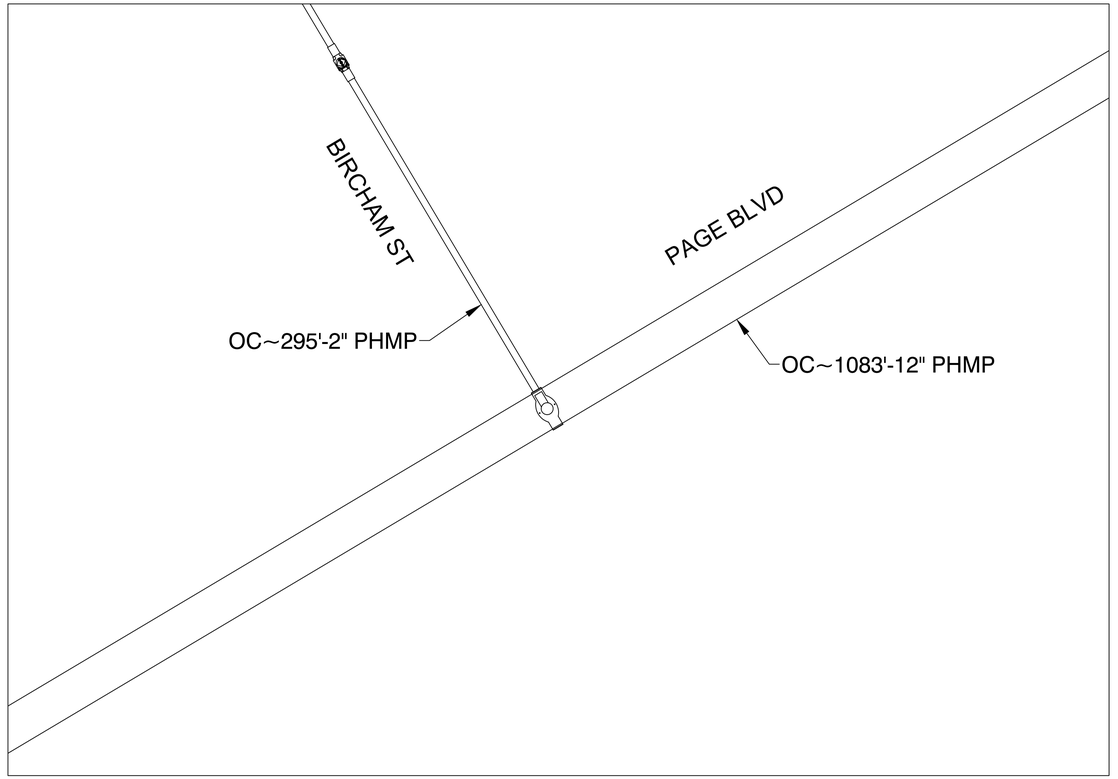
| PARAMOUNT ST, INDIAN ORCHARD, MA | | | | | DETAIL "H" PREPARATORY |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1611 | 360000998 | 500859 | FITTING,TEE, 12 IN 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

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.07.17 13:57:07-04'00'

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

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

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

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TJ 05/16/2024 | KMQ 05/20/2024 | MA-SPR-PIP-25-009-16 | 0 |

Paramount St - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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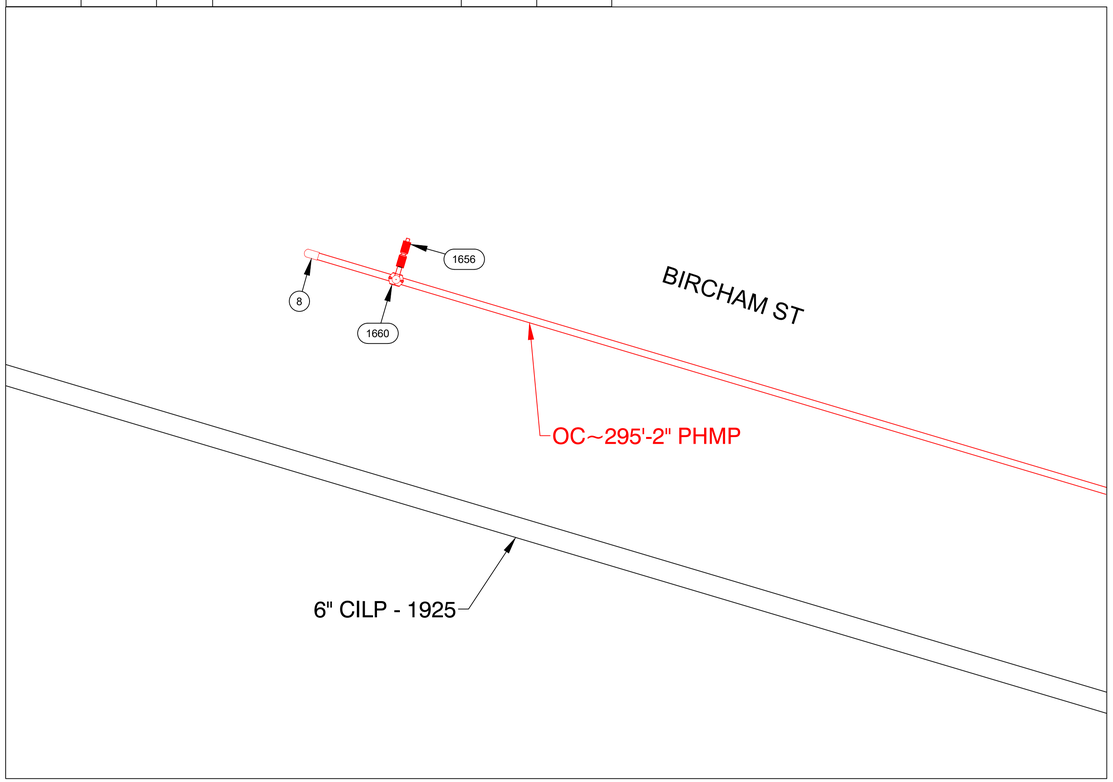
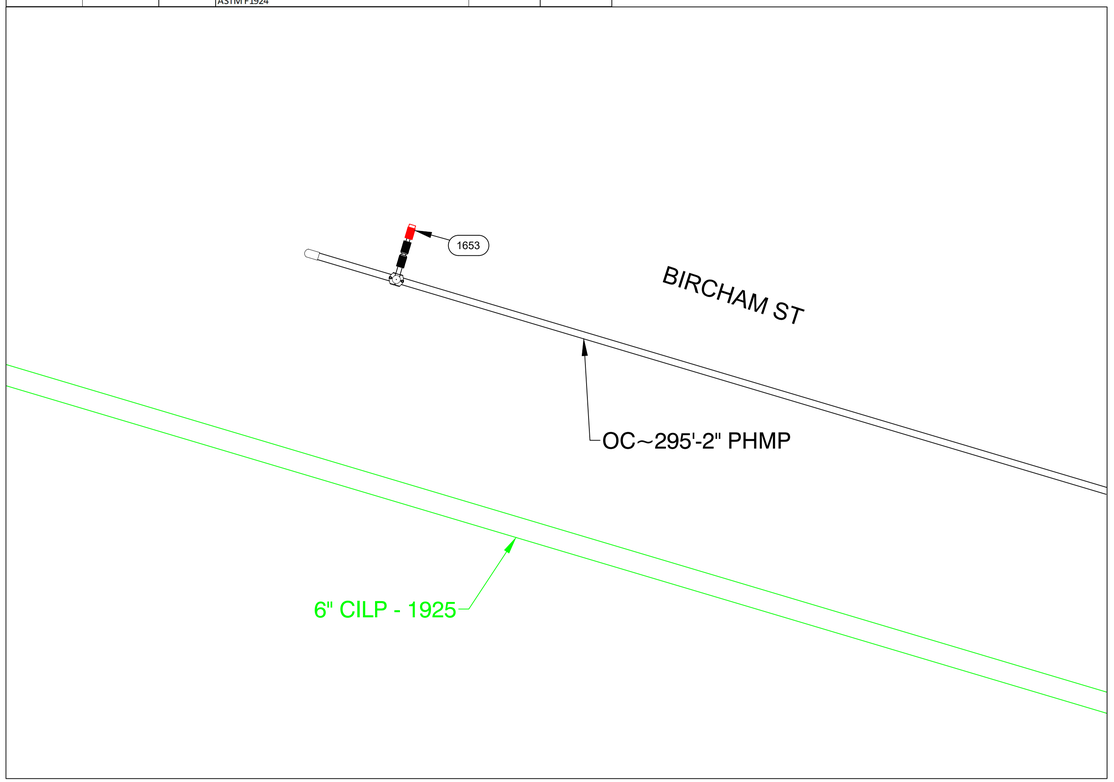
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

| 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

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.07.17 13:57:08-04'00'

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

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

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. |
|---|---|---|---|
| TJ 05/16/2024 | KMQ 05/20/2024 | MA-SPR-PIP-25-009-17 | 0 |

EGMA DRAWING TEMPLATE - 02-09-2023
Paramount St - Pro Drawing Rev0.dwg
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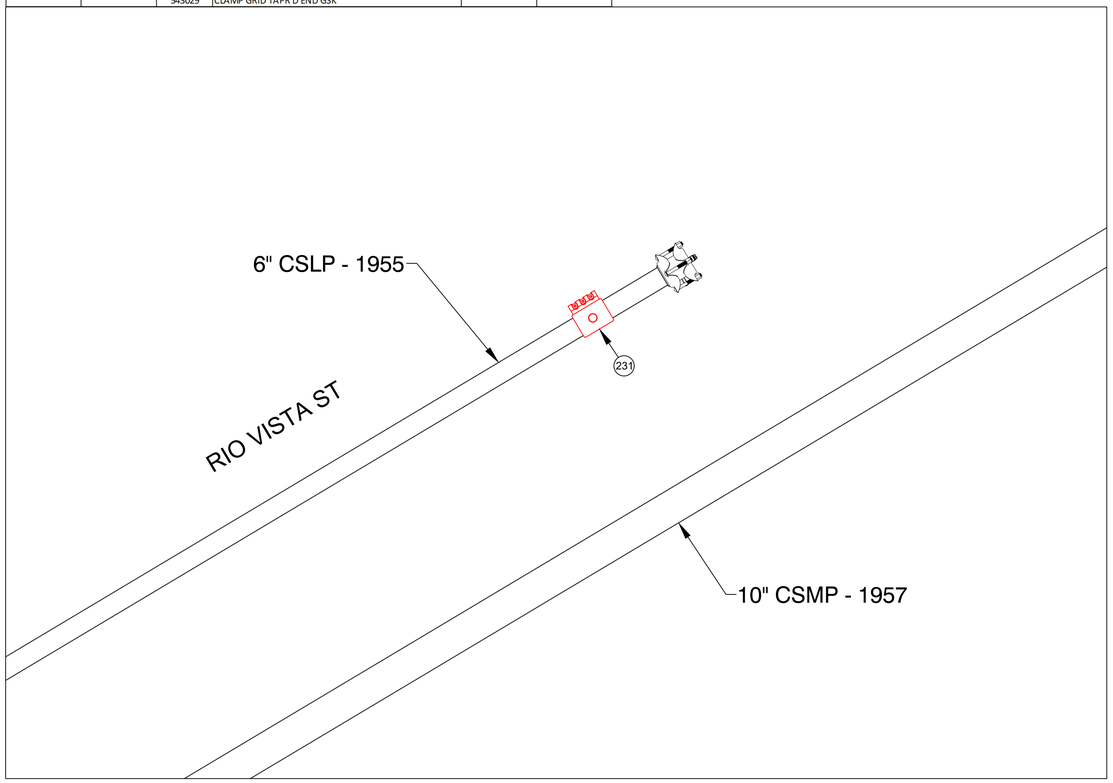
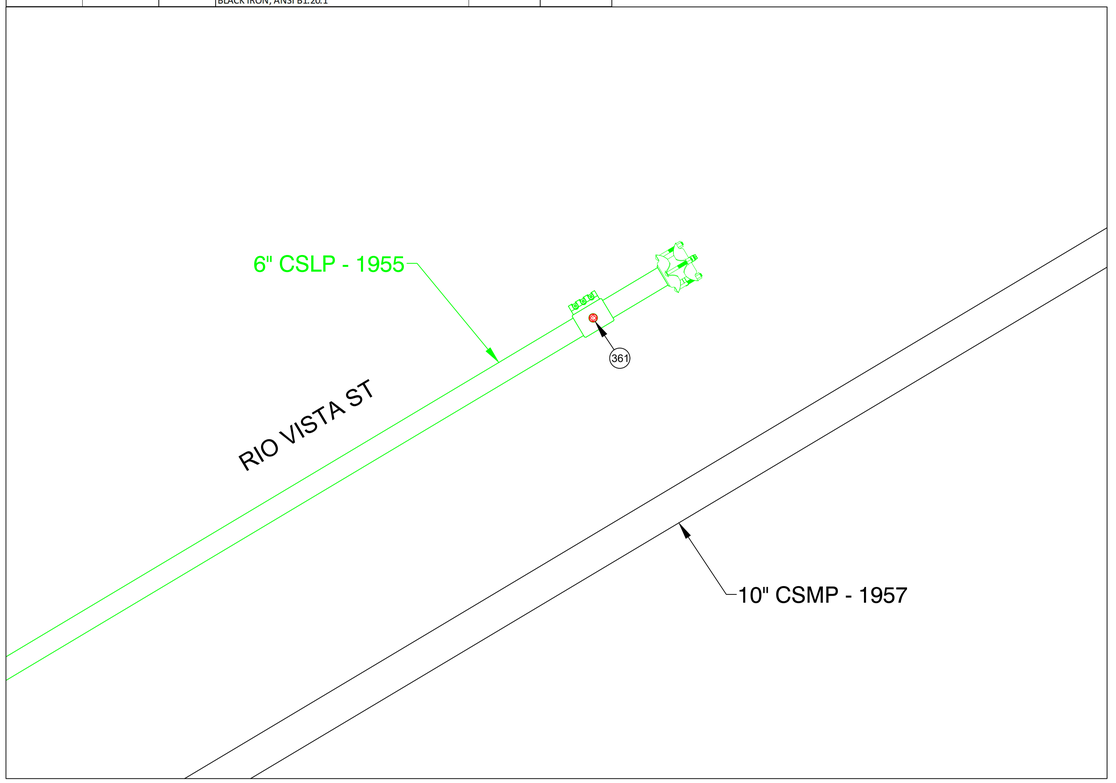
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

| 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

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
2024.07.17 13:57:08-04'00'
DANIEL D'ELETTO, P.E.

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

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

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 - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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Jul 17, 2024 - 11:17am
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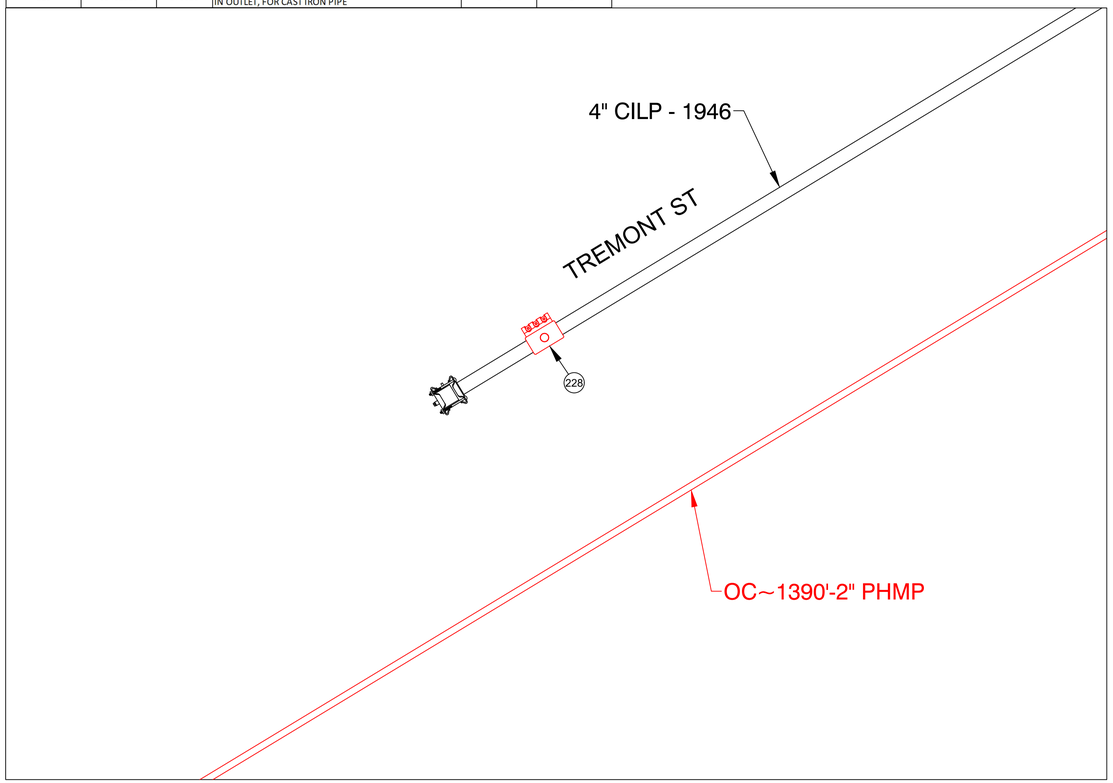
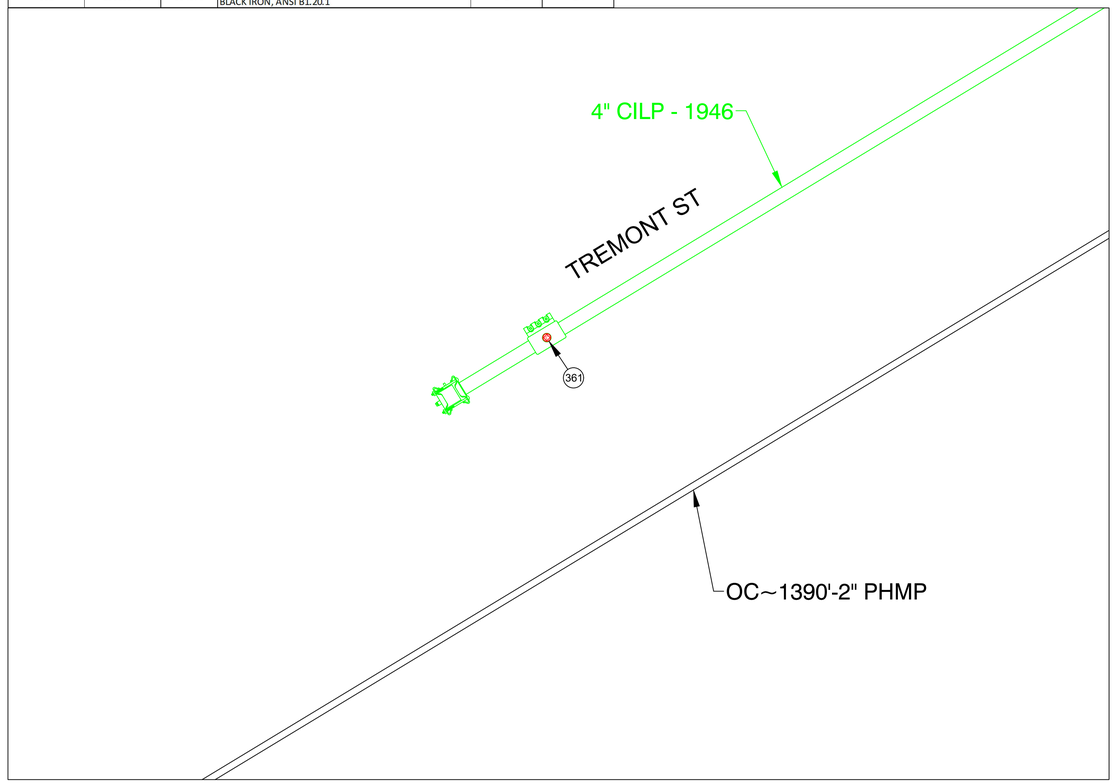
| PARAMOUNT ST, INDIAN ORCHARD, MA | | | | | DETAIL "L" PREPARATORY |
|---|---|---|---|---|---|
| REQUIRED BILL OF MATERIALS | | | | | |
| Item Number | MRC Stock Number | Maximo Part Number | Description | Quantity | Units |
| 228 | 63462113 | 578020 | FITTING,CLAMP, SERVI-SEAL REPAIR, 4 IN DIA, 9 IN 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

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.07.17 13:57:08-04'00'

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

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

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 - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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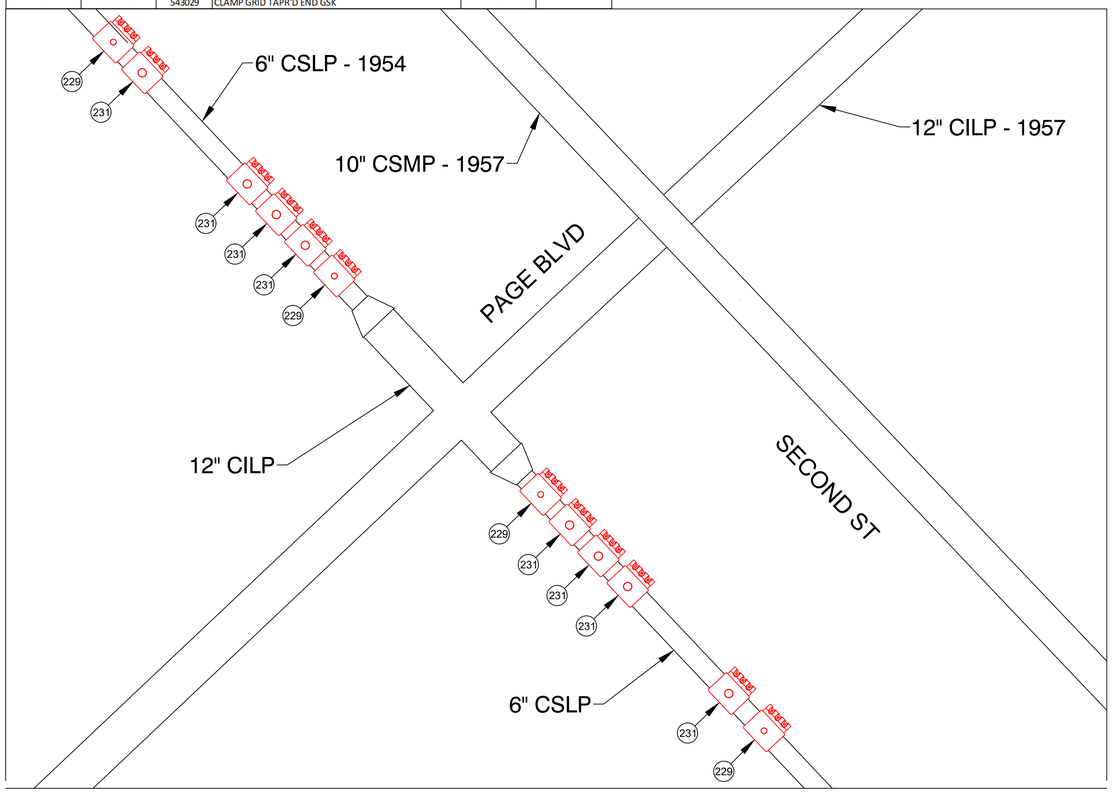
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

Paramount St - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023

**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 TAPR'D END GSK | 8 | EA |

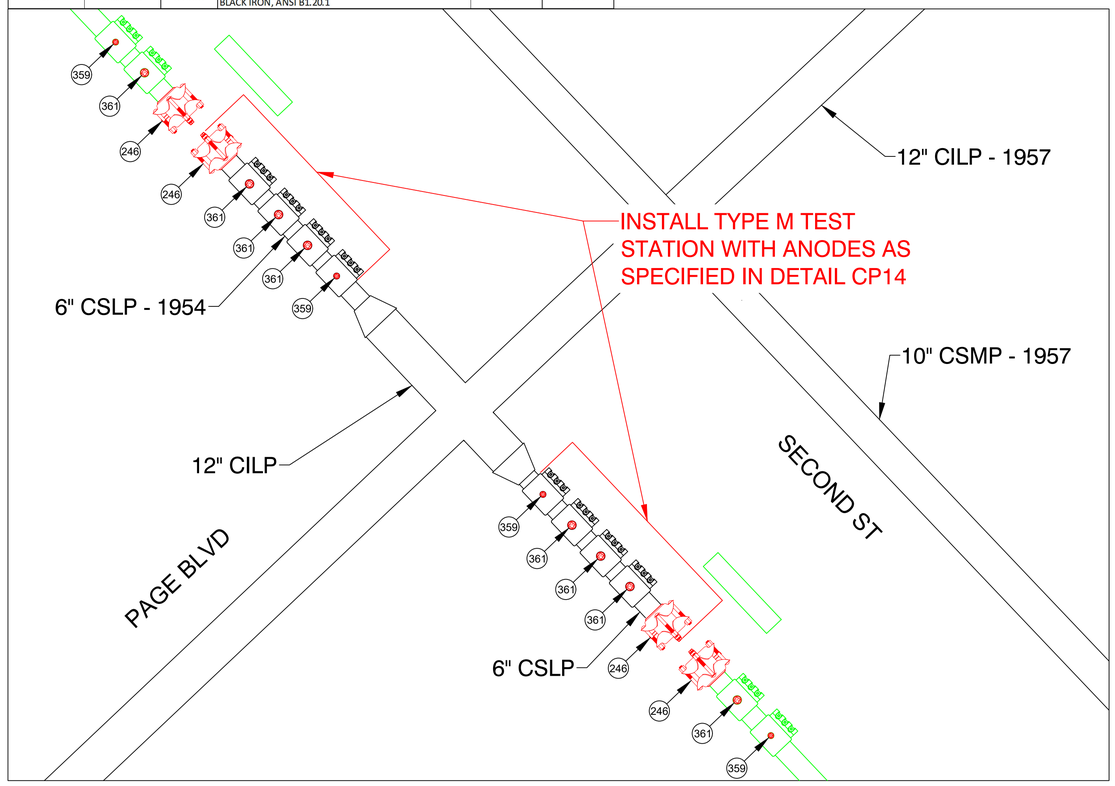



PREPARATORY TIE-IN DETAIL M
NOT TO SCALE

**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

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.07.17 13:57:09-04'00'

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

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

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. |
|---|---|---|---|
| TJ 05/16/2024 | KMQ 05/20/2024 | MA-SPR-PIP-25-009-20 | 0 |

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Jul 17, 2024 - 11:17am
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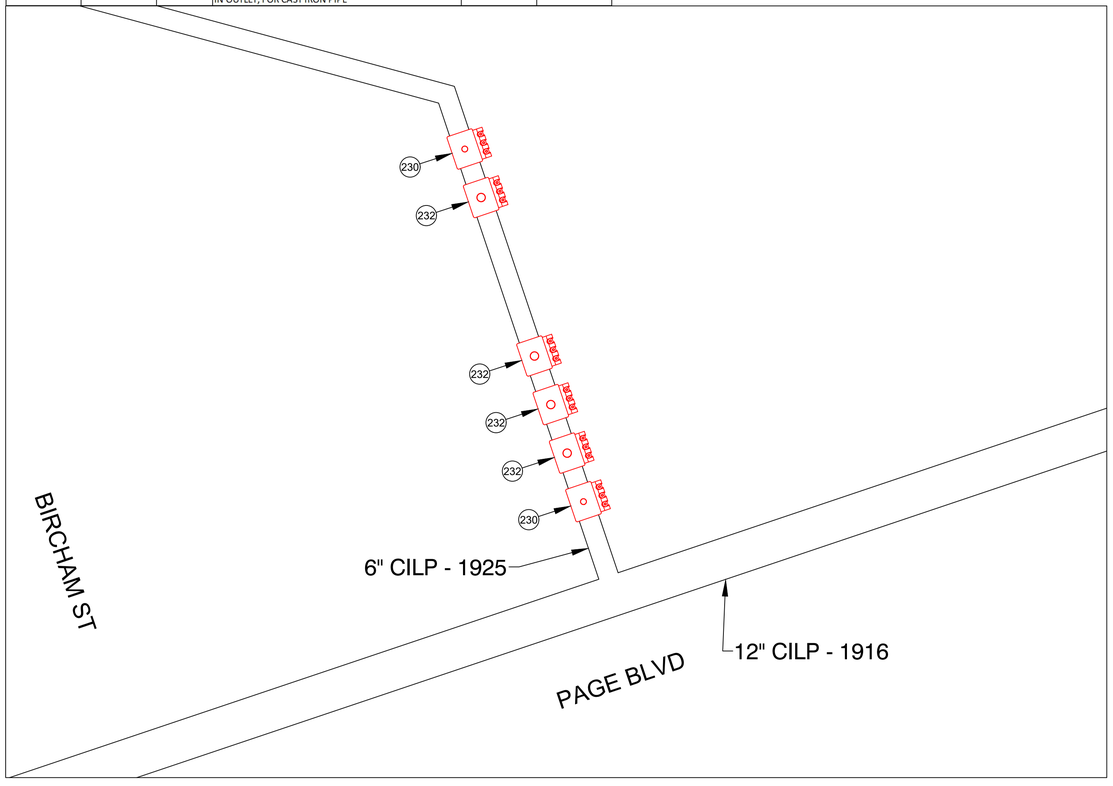
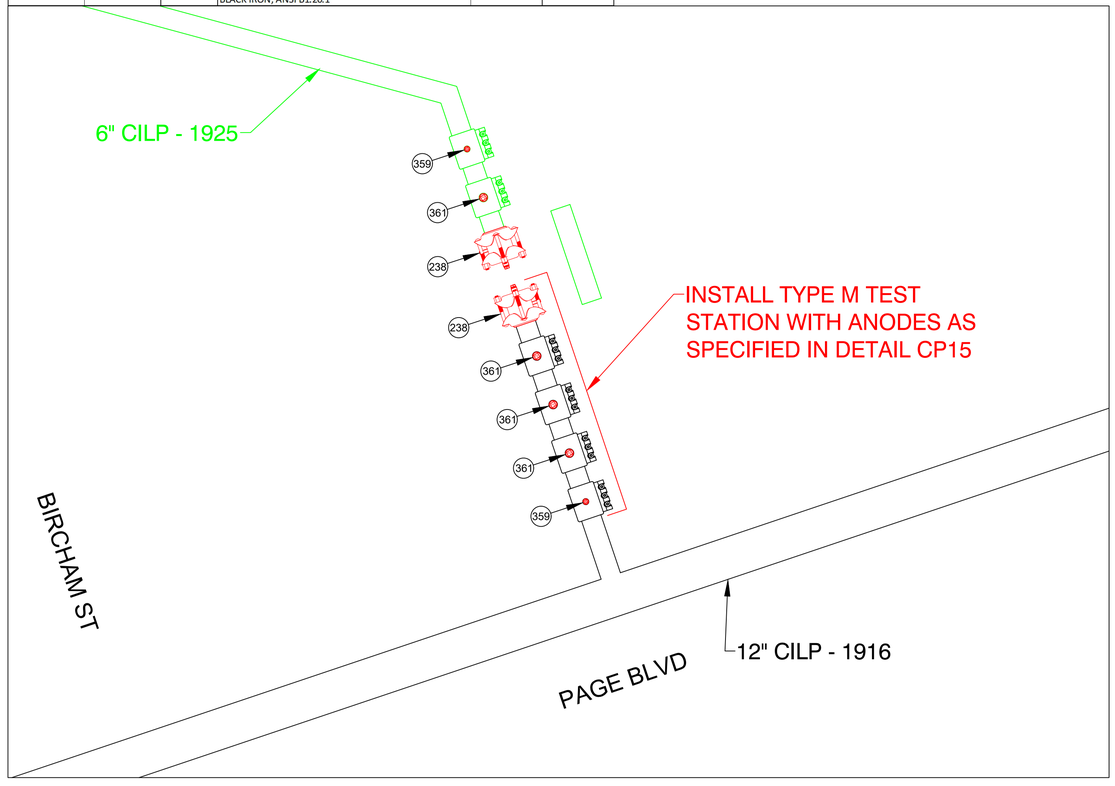
| PARAMOUNT ST, INDIAN ORCHARD, MA | | | | DETAIL "N" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 230 | 63462155 | 542982 | CLAMP,PIPE, REPAIR, 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

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.07.17 13:57:09-04'00'

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

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

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 - Pro Drawing Rev0.dwg
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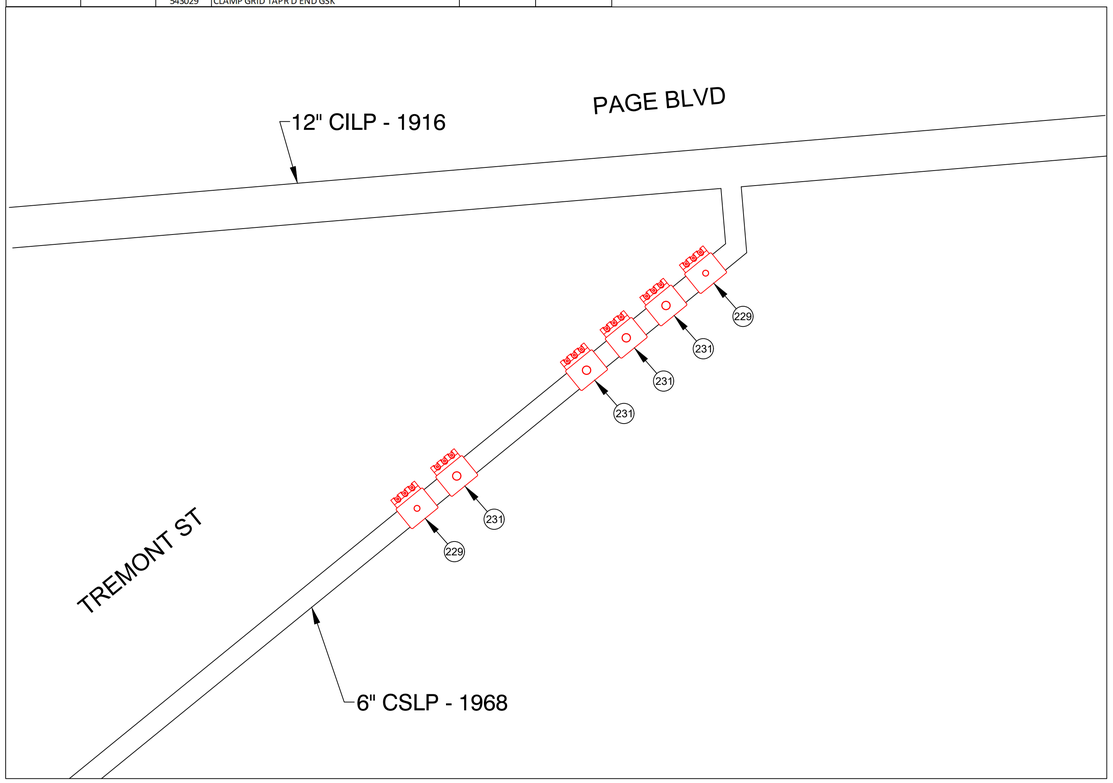
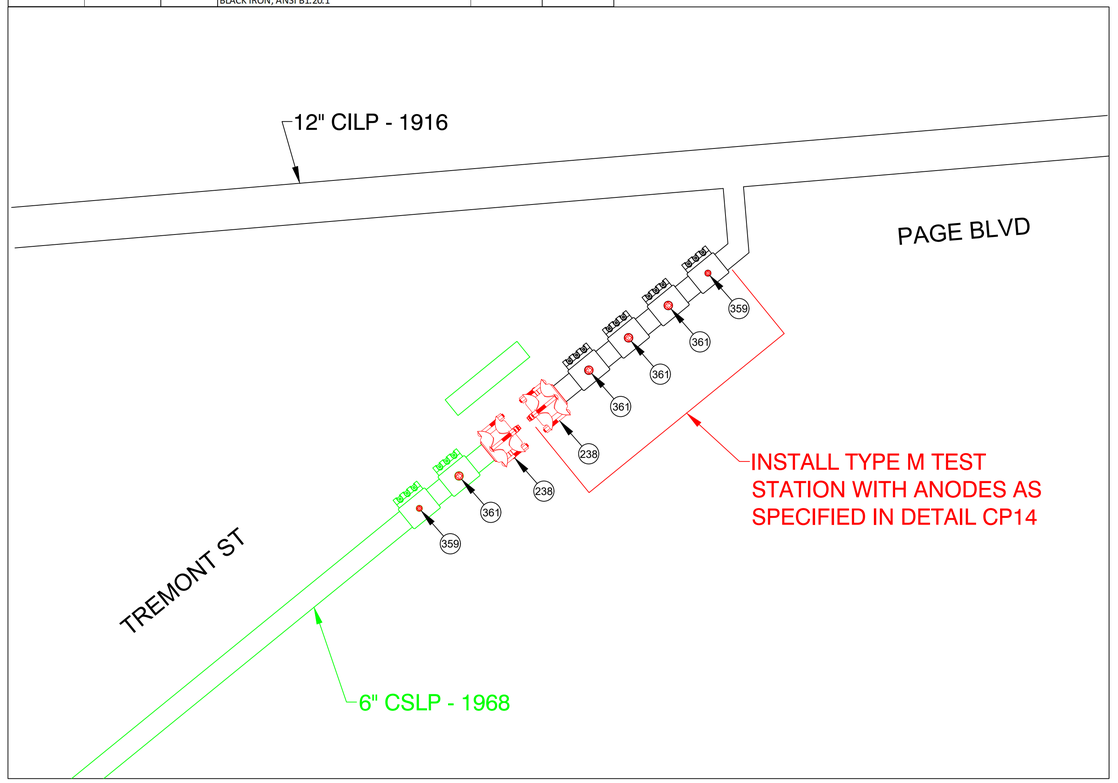
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

| 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 TAPR'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

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.07.17 13:57:09-04'00'

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

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

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 - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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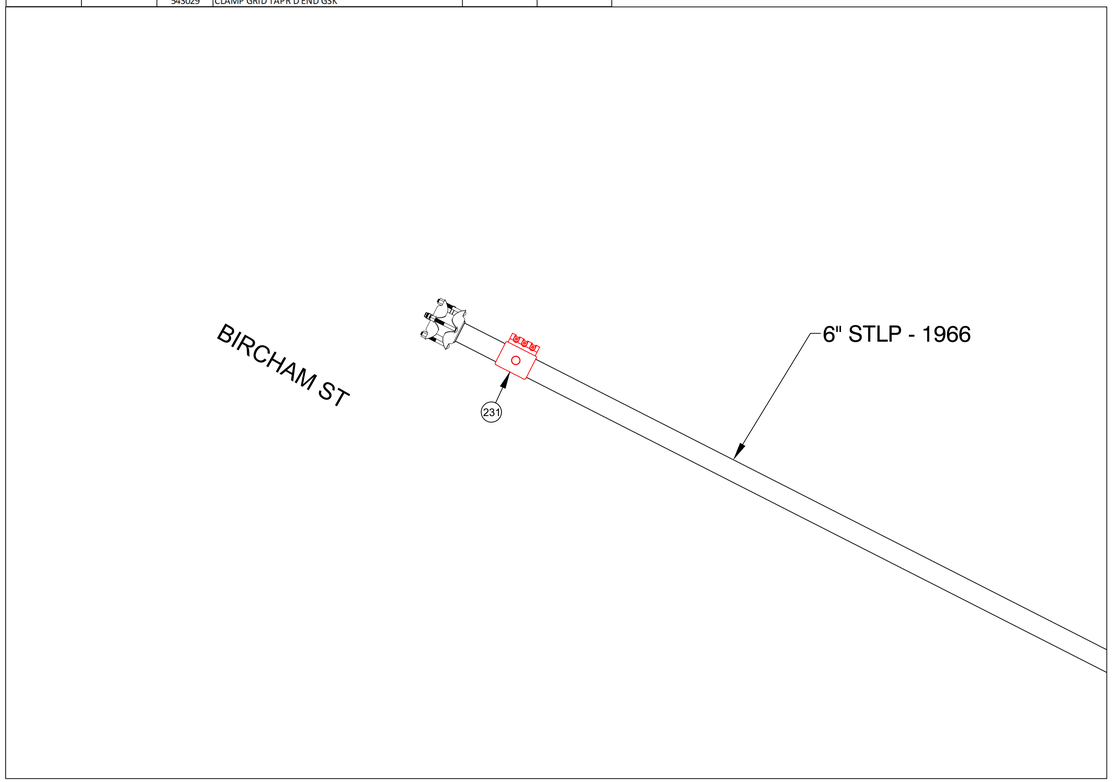
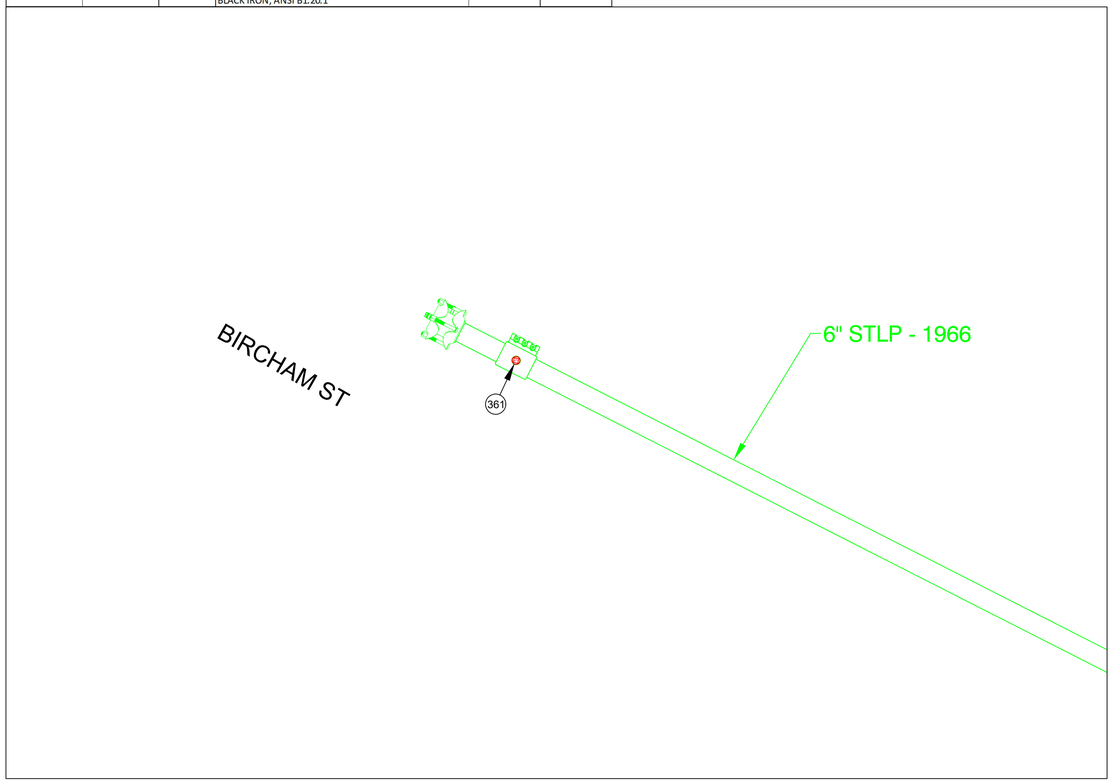
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

| 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 S09-09-0655 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

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.07.17 13:57:10-04'00'

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

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

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 |

Paramount St - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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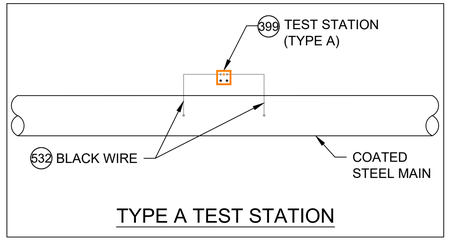
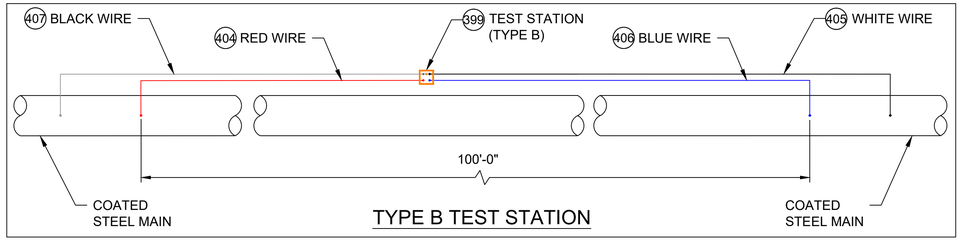
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)



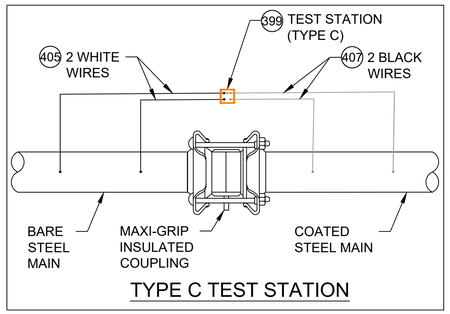

TYPE A TEST STATION

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



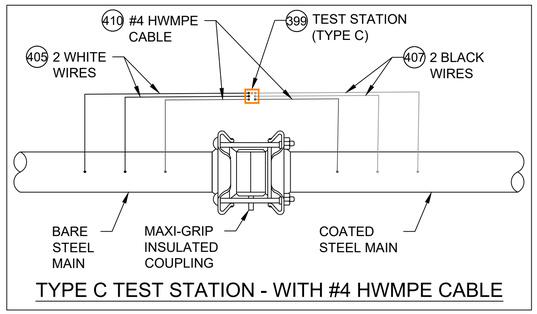

TYPE B TEST STATION

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



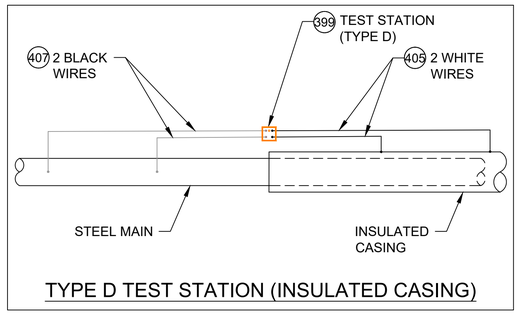

TYPE C TEST STATION

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



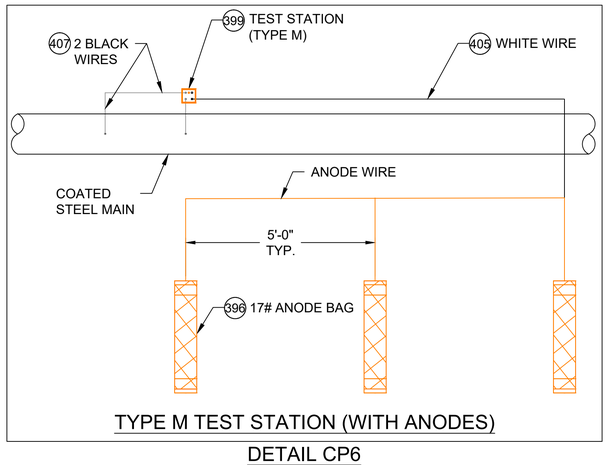

TYPE C TEST STATION - WITH #4 HWMPE CABLE

DETAIL CP4
SCALE: 1/2" = 1'-0"



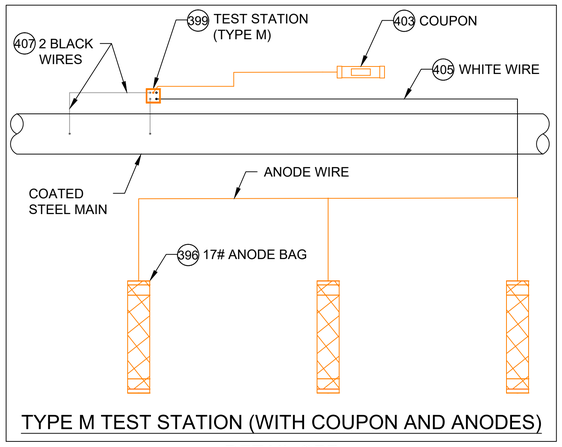

TYPE D TEST STATION (INSULATED CASING)

DETAIL CP5
SCALE: 1/2" = 1'-0"



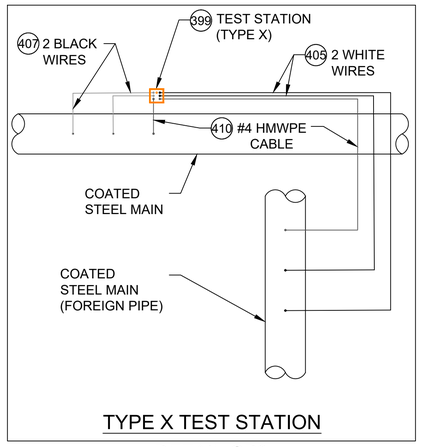

TYPE M TEST STATION (WITH ANODES)

DETAIL CP6
SCALE: 1/2" = 1'-0"



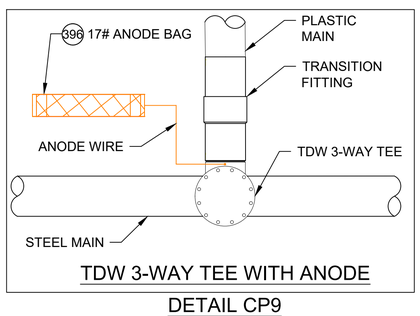

TYPE M TEST STATION (WITH COUPON AND ANODES)

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



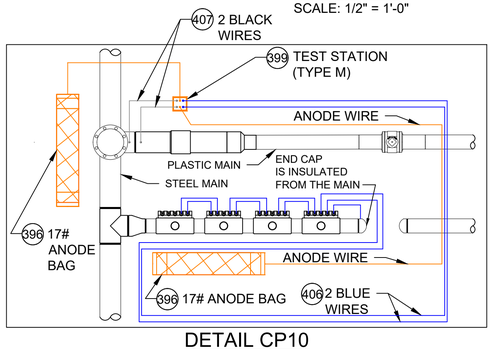

TYPE X TEST STATION

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

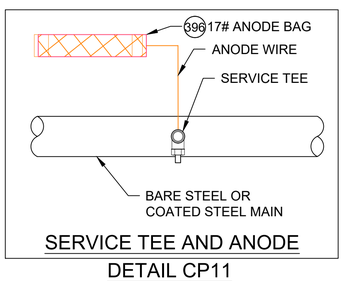



TDW 3-WAY TEE WITH ANODE

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

| 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, 0F 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 |
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Revision/Status

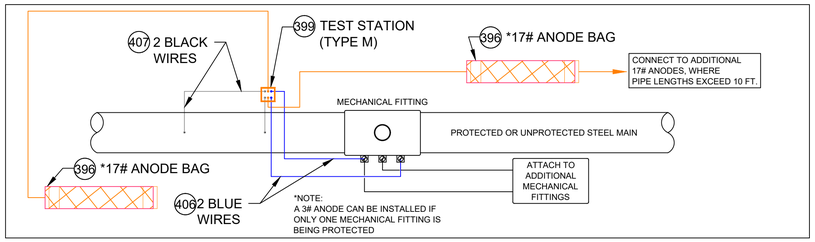
PARAMOUNT ST, INDIAN ORCHARD, MA
PROJECT # 25EG011 / WORK ORDER # 16660732
DETAILS, NOTES AND BILL OF MATERIALS

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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 |

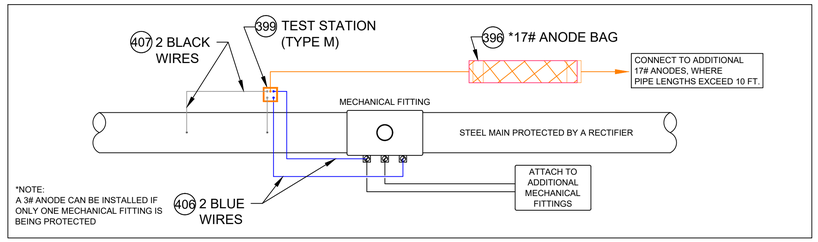
Paramount St - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
C:\users\kquinton\projectwise\fsl\d03759431
Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)




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

## DETAIL CP12

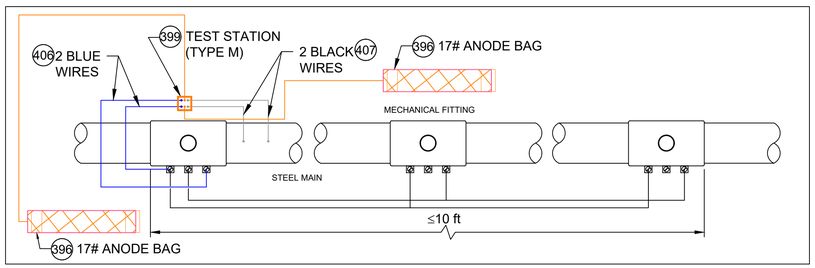
SCALE: 1/2" = 1'-0"




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

## DETAIL CP13

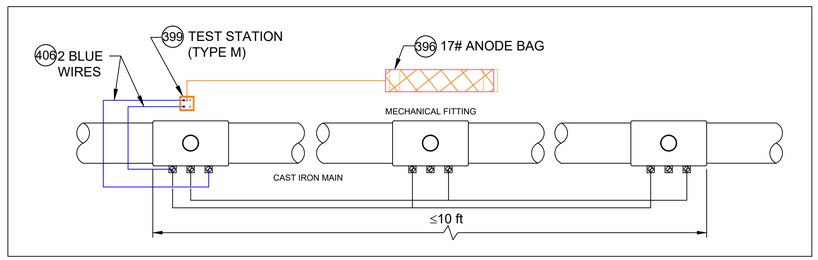
SCALE: 1/2" = 1'-0"




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

## DETAIL CP14

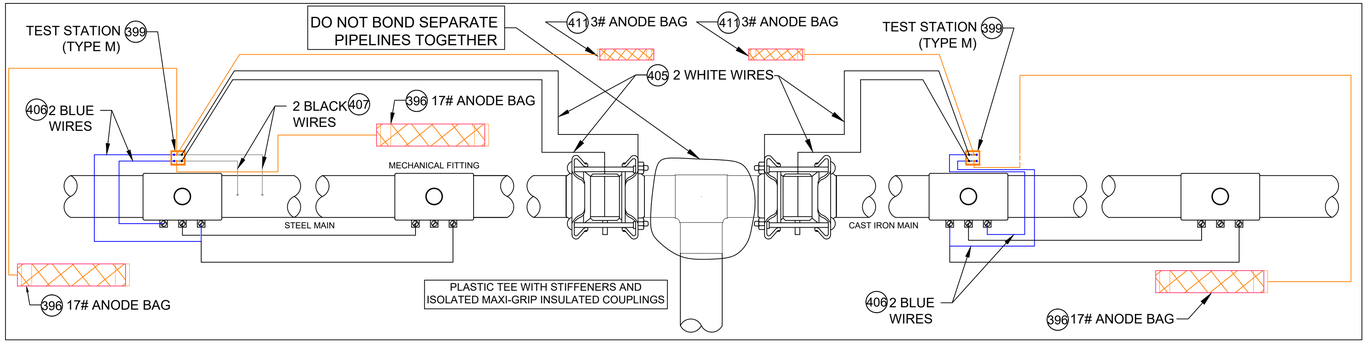
SCALE: 1/2" = 1'-0"




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

## DETAIL CP15

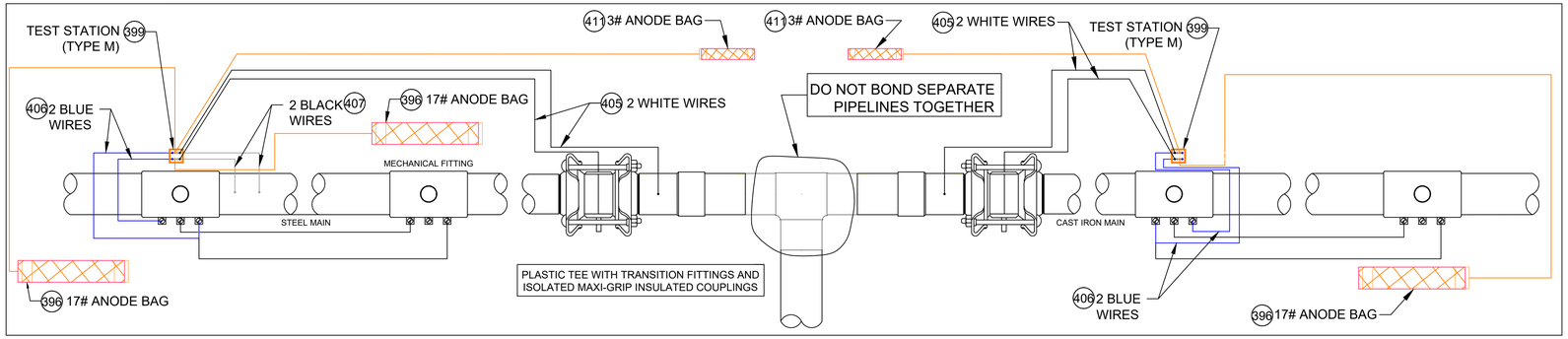
SCALE: 1/2" = 1'-0"




## 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, 0F 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).
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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).
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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.
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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 |
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Revision/Status

PARAMOUNT ST, INDIAN ORCHARD, MA

PROJECT # 25EG011 / WORK ORDER # 16660732

DETAILS, NOTES AND BILL OF MATERIALS

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

SCALE: NTS SHEET 25 OF 27

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TJ 05/16/2024 | KMQ 05/20/2024 | MA-SPR-PIP-25-009-25 | 0 |

Paramount St - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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Jul 17, 2024 - 11:17am
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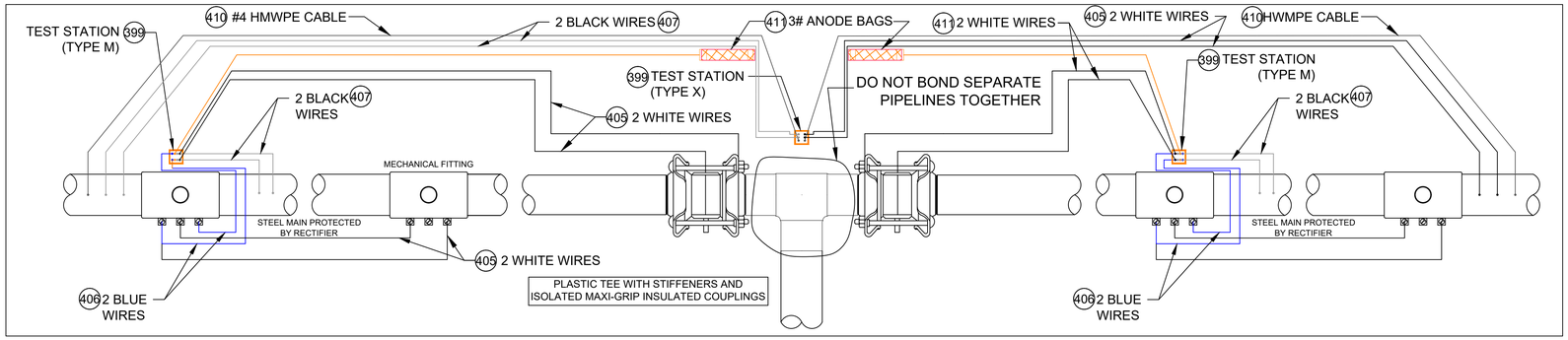


ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF COATED STEEL PIPING

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"

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, 0F 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:

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

| No. | Description | Date | Dw/Ck |
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Revision/Status

PARAMOUNT ST, INDIAN ORCHARD, MA
PROJECT # 25EG011 / WORK ORDER # 16660732
DETAILS, NOTES AND BILL OF MATERIALS
SCALE: NTS SHEET 26 OF 27

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| 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 |

Paramount St - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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Jul 17, 2024 - 11:17am
Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

Paramount St - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
C:\users\kquinton\projectwise\fs\d\03759\43\

Attachment: Paramount St - Pro Drawing Rev0 - PE Stamped (8499 : EVERSOURCE -Page Blvd.)

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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Revision/Status

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 | 0 |

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE

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:

| Street Name | From | To |
|---|---|---|
| Page Bv | 2nd St | Carol St |
| 2nd St | Page Bv | EOM |
| Tremont St | 2nd 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

Attachment: Paramount St - Springfield City Council Letter (8499 : EVERSOURCE -Page Blvd.)

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.

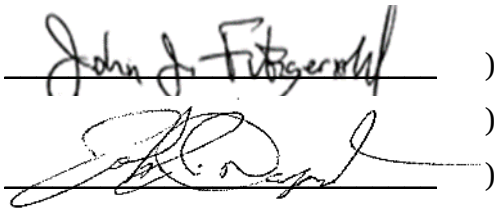
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

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

)

)

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

**City Council**
36 Court Street
Springfield, MA 01103

**TABLED**

**PETITION (ID # 8502)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC 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.

**HISTORY:**

**03/10/25 City Council REFER TO COMMITTEE Next: 04/07/25**

SENT TO MAINTENANCE AND ECONOMIC DEVELOPMENT COMMITTEES

## TABLE OF CONTENTS


| SHEET # | TITLE |
|---|---|
| 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 |


EVERSOURCE ENERGY

WORK SCOPE

**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' |

ISSUED FOR CONSTRUCTION

DANIEL D'ELETTO CIVIL No. 55061 — COMMONWEALTH OF MASSACHUSETTS — PROFESSIONAL ENGINEER

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

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

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

Attachment: Commonwealth Ave - Overview Drawing (8502 : Eversource - Commonwealth Ave.)

Commonwealth Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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Dec 03, 2024 - 8:04am

## 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.

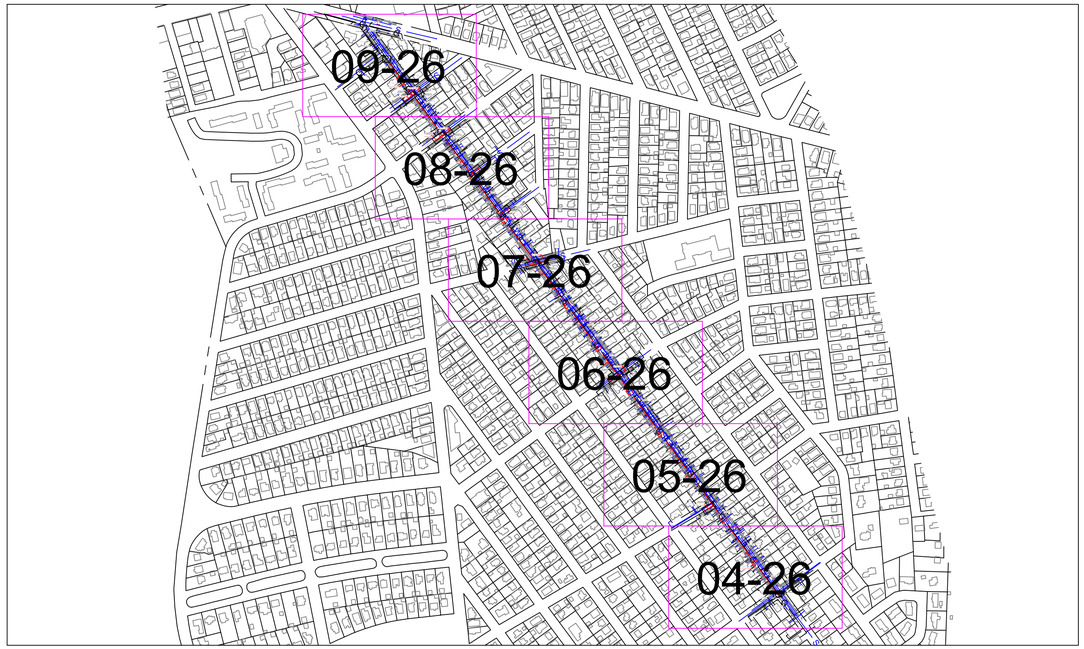
WARNING:
FOR LP SYSTEMS (≤2 PSIG), **DO NOT USE** VENT STACKS LARGER THAN THOSE LISTED IN TABLE 3. DOING SO MAY CAUSE THE EXIT VELOCITY OF THE PURGE GASSES OUT OF THE STACK TO DROP BELOW THE RATE OF FLAME TRAVEL. IF VENT GASSES BECOME IGNITED, THE FLAME COULD TRAVEL BACK THROUGH THE VENT STACK, INTO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




OVERVIEW KEY MAP
NOT TO SCALE

ISSUED FOR CONSTRUCTION

DANIEL D'ELETTO CIVIL No. 55061 — COMMONWEALTH OF MASSACHUSETTS — PROFESSIONAL ENGINEER

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

**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 |

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

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 |

Commonwealth Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_13520\
Dec 03, 2024 - 8:04am
Attachment: Commonwealth Ave - Overview Drawing (8502 : Eversource - Commonwealth Ave.)

## DRAWING LEGEND

### Gas Main Symbology

REGULATING STATION 50' BOUNDARY

EXISTING GAS MAIN — G — G —

PROPOSED GAS MAIN — — G — — G — —

GAS MAIN TO BE ABANDONED — G — G —

GAS MAIN WITH SERVICE TRANSFERS — G — G —

GAS MAIN WITH PRESSURE INCREASE — G — G —

RIGHT-OF-WAY — — —

ELECTRIC — E — E —

WATER LINE — W — W —

SEWER LINE — S — S —

TELEPHONE — T — T —

DRAIN LINE — D — D —

FENCE LINE — x — x — x — x — x — x —

### 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 |
| R | Single Customer Regulator |
| M | Meter |
| MR | Meter with Regulator |
| | Test Point (Station) |
| T | Gas Service Tie-over |
| R | Gas Service Replacement |
| MMO | Meter Move Out |

### Swing Tie Symbology

| | |
|---|---|
| T | Telephone Manhole |
| D | Drain Manhole |
| E | Electric Manhole |
| | Catch Basis |
| S | Sewer Manhole |
| | Fire Hydrant |
| | Utility Pole |
| | Property Marker |
| T | Telephone Pedestal |
| C | Television Pedestal |
| U | Unknown Manhole |
| | Water Box |
| | Water Gate |
| E | Electric Pedestal |
| | Iron Pin |
| | Light Pole |
| | INSIDE METER |
| | OUTSIDE METER |

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS — DANIEL D'ELETTO CIVIL No. 55061 — PROFESSIONAL ENGINEER

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

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

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 |

Commonwealth Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_13520\
Dec 03, 2024 - 8:04am
Attachment: Commonwealth Ave - Overview Drawing (8502 : Eversource - Commonwealth Ave.)

MATCH LINE - SHEET 5 OF 26

KEY MAP
SCALE: N.T.S.

6" CILP-1928

3'±

COMMONWEALTH AVENUE

OC~3,323'-8" PHMP

6" CILP-1949

6" CILP-1928

CARROLL STREET

SEE DETAIL A
ON SHEET #10

6" PHMP-1990

6" CILP-1928

CARROLL STREET

6" CSLP-1953

EXISTING HOUSE #314
EXISTING HOUSE #317
EXISTING HOUSE #318
EXISTING HOUSE #322
EXISTING HOUSE #323
EXISTING HOUSE #327
EXISTING HOUSE #330
EXISTING HOUSE #332
EXISTING HOUSE #333
EXISTING HOUSE #337
EXISTING HOUSE #338
EXISTING HOUSE #344
EXISTING HOUSE #350
EXISTING HOUSE #209
EXISTING HOUSE #99
EXISTING HOUSE #109
EXISTING HOUSE #115
EXISTING HOUSE #126
EXISTING HOUSE #132
EXISTING HOUSE #136, 138
EXISTING HOUSE #186, 188
EXISTING HOUSE #137
EXISTING HOUSE #131
EXISTING HOUSE #369
EXISTING HOUSE #373
EXISTING HOUSE #370

N

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

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER

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

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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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Dec 03, 2024 - 8:04am

Attachment: Commonwealth Ave - Overview Drawing (8502 : Eversource - Commonwealth Ave.)

MATCH LINE - SHEET 6 OF 26

EXISTING HOUSE #248, 250
EXISTING HOUSE #252, 254
EXISTING HOUSE #257, 259
EXISTING HOUSE #258, 260
EXISTING HOUSE #262, 264
EXISTING HOUSE #263
EXISTING HOUSE #267
EXISTING HOUSE #268, 270
EXISTING HOUSE #273
EXISTING HOUSE #274
EXISTING HOUSE #277
EXISTING HOUSE #278, 280
EXISTING HOUSE #283
EXISTING HOUSE #282
EXISTING HOUSE #292
EXISTING HOUSE #293
EXISTING HOUSE #297
EXISTING HOUSE #134
EXISTING HOUSE #301
EXISTING HOUSE #151, 153
EXISTING HOUSE #307
EXISTING HOUSE #304
EXISTING HOUSE #313
EXISTING HOUSE #129
EXISTING HOUSE #310

3'±

6" CILP-1923

COMMONWEALTH AVENUE

OC~3,323'-8" PHMP

SEE DETAIL C
ON SHEET #12

OC~50'-2" PHMP

6" CILP-1923

FERN STREET

6" CILP-1924

MATCH LINE - SHEET 4 OF 26

KEY MAP
SCALE: N.T.S.

N

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

Revision/Status

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER

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

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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 05 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 7/18/2024 | TH 8/9/2024 | MA-SPR-PIP-25-015-05 | 0 |

Commonwealth Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_13520\
Dec 03, 2024 - 8:04am

Attachment: Commonwealth Ave - Overview Drawing (8502 : Eversource - Commonwealth Ave.)

MATCH LINE - SHEET 7 OF 26

6" CILP-1914

6" CILP-1920

6" CILP-1923

OC~3,323'-8" PHMP

OC~50'-2" PHMP

OC~50'-2" PHMP

SEE DETAIL D ON SHEET #13

6" CILP

SEE DETAIL E ON SHEET #14

6" CILP

3'±

6" CILP-1923

COMMONWEALTH AVENUE

FOUNTAIN STREET

FOUNTAIN STREET

EXISTING HOUSE #182, 184
EXISTING HOUSE #191, 193
EXISTING HOUSE #188, 190
EXISTING HOUSE #197
EXISTING HOUSE #194
EXISTING HOUSE #201, 203
EXISTING HOUSE #198, 200
EXISTING HOUSE #207, 209
EXISTING HOUSE #112, 114
EXISTING HOUSE #204
EXISTING HOUSE #211, 213
EXISTING HOUSE #208
EXISTING HOUSE #113
EXISTING HOUSE #107
EXISTING HOUSE #212
EXISTING HOUSE #101, 103
EXISTING HOUSE #71, 73
EXISTING HOUSE #91
EXISTING HOUSE #231, 233
EXISTING HOUSE #87, 89
EXISTING HOUSE #237, 239
EXISTING HOUSE #83
EXISTING HOUSE #234
EXISTING HOUSE #241, 243
EXISTING HOUSE #79
EXISTING HOUSE #238, 240
EXISTING HOUSE #247, 249
EXISTING HOUSE #242, 244
EXISTING HOUSE #251

MATCH LINE - SHEET 5 OF 26

KEY MAP
SCALE: N.T.S.

08-26
07-26
06-26
05-26
04-26

N

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

Revision/Status

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

EGMA DRAWING TEMPLATE - 02-09-2023

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

Dec 03, 2024 - 8:04am

Attachment: Commonwealth Ave - Overview Drawing (8502 : Eversource - Commonwealth Ave.)

MATCH LINE - SHEET 8 OF 26

KEY MAP
SCALE: N.T.S.

4" CILP

6" CILP-1913

SEE DETAIL F
ON SHEET #15

OC~50'-4" PHMP

OC~50'-4" PHMP

WASHINGTON STREET

6" CILP-1920

SEE DETAIL G
ON SHEET #16

6" CILP-1913

COMMONWEALTH AVENUE

OC~3,323'-8" PHMP

3'±

6" CILP-1914

EXISTING HOUSE #118, 120
EXISTING HOUSE #126
EXISTING HOUSE #125
EXISTING HOUSE #133, 135
EXISTING HOUSE #128, 130
EXISTING HOUSE #137, 139
EXISTING HOUSE #143, 145
EXISTING HOUSE #68
EXISTING HOUSE #50
EXISTING HOUSE #44-46
EXISTING HOUSE #38, 40
EXISTING HOUSE #34
EXISTING HOUSE #67, 69
EXISTING HOUSE #61, 63
EXISTING HOUSE #49, 51
EXISTING HOUSE #45
EXISTING HOUSE #41
EXISTING HOUSE #35
EXISTING HOUSE #167, 169
EXISTING HOUSE #162, 164
EXISTING HOUSE #173
EXISTING HOUSE #168
EXISTING HOUSE #177, 179
EXISTING HOUSE #172, 174
EXISTING HOUSE #183
EXISTING HOUSE #178, 180
EXISTING HOUSE #187, 189

MATCH LINE - SHEET 6 OF 26

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

Revision/Status

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER

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

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Know what's below.
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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 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
EGMA DRAWING TEMPLATE - 02-09-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_13520\
Dec 03, 2024 - 8:04am

Attachment: Commonwealth Ave - Overview Drawing (8502 : Eversource - Commonwealth Ave.)

MATCH LINE - SHEET 9 OF 26

4" CILP-1896

HOLLYWOOD STREET

6" CILP-1909

OC–50'-2" PHMP

SEE DETAIL J
ON SHEET #19

SEE DETAIL K
ON SHEET #20

OC–50'-2" PHMP

4" CILP-1896

HOLLYWOOD STREET

6" CILP

3'±

4" CILP-1902

4" CILP

FAIRMOUNT STREET

SEE DETAIL I
ON SHEET #18

OC–50'-2" PHMP

OC–3,323'-8" PHMP

COMMONWEALTH AVENUE

4" CILP-1902

6" CILP

LAWNDALE STREET

SEE DETAIL H
ON SHEET #17

OC–50'-2" PHMP

4" CILP

MATCH LINE - SHEET 7 OF 26

KEY MAP
SCALE: N.T.S.

N

Commonwealth Ave - Pro Drawing Rev0.dwg

EGMA DRAWING TEMPLATE - 02-09-2023

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

Attachment: Commonwealth Ave - Overview Drawing (8502 : Eversource - Commonwealth Ave.)

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

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER

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 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 |

Dec 03, 2024 - 8:04am

Commonwealth Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_13520\
Attachment: Commonwealth Ave - Overview Drawing (8502 : Eversource - Commonwealth Ave.)

BELMONT AVENUE
2" PHMP-2023
6" PHLP-1994
8" PHMP-2023
6" PHLP-1994
4" CILP-1896
8" PHMP-2023
EXISTING HOUSE #600
EXISTING HOUSE #6
EXISTING HOUSE #14, 16
EXISTING HOUSE #616
TRENTON AVENUE
SEE DETAIL B ON SHEET #11
8" PHMP-2023
EXISTING HOUSE #24, 26
COMMONWEALTH AVENUE
4" CILP-1896
EXISTING HOUSE #30
EXISTING HOUSE #37
EXISTING HOUSE #9
EXISTING HOUSE #34, 36
3'±
OC~3,323'-8" PHMP
WALDEN STREET
6" CILP
OC~50'-2" PHMP
SEE DETAIL L ON SHEET #21
SEE DETAIL M ON SHEET #22
EXISTING HOUSE #38, 40
OC~50'-2" PHMP
EXISTING HOUSE #47, 49
EXISTING HOUSE #14
EXISTING HOUSE #55
4" CILP-1896
WALDEN STREET
4" CILP
EXISTING HOUSE #50
EXISTING HOUSE #44
EXISTING HOUSE #57
EXISTING HOUSE #54

KEY MAP
SCALE: N.T.S.

MATCH LINE - SHEET 8 OF 26

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

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER

TRC
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 09 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 7/18/2024 | TH 8/9/2024 | MA-SPR-PIP-25-015-09 | 0 |

Dec 03, 2024 - 8:04am

EVERSOURCE ENERGY

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:

| Street Name | From | To |
|---|---|---|
| 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

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

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 Commonweaith 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.

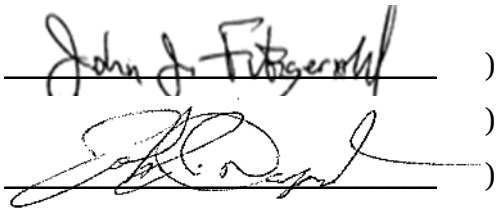
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

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

)

)

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

**City Council**
36 Court Street
Springfield, MA 01103

**TABLED**

**PETITION (ID # 8505)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC 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: 04/07/25**

SENT TO MAINTENANCE AND ECONOMIC DEVELOPMENT COMMITTEES

EVERSOURCE

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:

| Street Name | From | To |
|---|---|---|
| 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.)

453 Sumner Ave - Encroachment - Pro Drawing RevB.dwg
EGMA DRAWING TEMPLATE - 02-28-2023

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| 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 |


EVERSOURCE ENERGY

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' |

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215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

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 | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ / 11/11/2024 | DD / 11/15/2024 | MA-SPR-PIP-24-294-01 | B |

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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.

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).

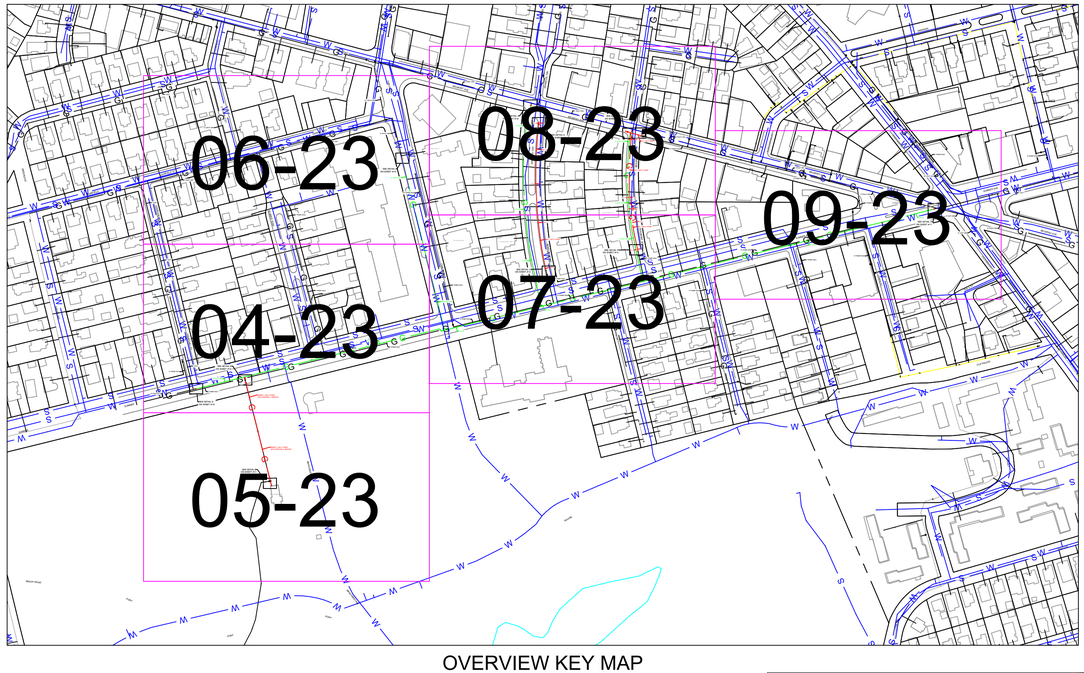
C. NORTH DIRECTION INCLUDED ON ALL DRAWING SHEETS DEPICTS "TRUE NORTH" IN THE NORTH AMERICAN HORIZONTAL DATUM OF 1983 (NAD83) AND IS APPROXIMATE ONLY.

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

**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 |

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

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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## DRAWING LEGEND

### Gas Main Symbology

REGULATING STATION 50' BOUNDARY

EXISTING GAS MAIN — G — G —

PROPOSED GAS MAIN — — G — — G — —

GAS MAIN TO BE ABANDONED — G — G —

GAS MAIN WITH SERVICE TRANSFERS — G — G —

GAS MAIN WITH PRESSURE INCREASE — G — G —

RIGHT-OF-WAY — — —

ELECTRIC — E — E —

WATER LINE — W — W —

SEWER LINE — S — S —

TELEPHONE — T — T —

DRAIN LINE — D — D —

FENCE LINE — x — x — x — x — x — x —

### 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 |
| R | Single Customer Regulator |
| M | Meter |
| MR | Meter with Regulator |
| | Test Point (Station) |
| T | Gas Service Tie-over |
| R | Gas Service Replacement |
| MMO | Meter Move Out |

### Swing Tie Symbology

| | |
|---|---|
| T | Telephone Manhole |
| D | Drain Manhole |
| E | Electric Manhole |
| | Catch Basis |
| S | Sewer Manhole |
| | Fire Hydrant |
| | Utility Pole |
| | Property Marker |
| T | Telephone Pedestal |
| C | Television Pedestal |
| U | Unknown Manhole |
| W | Water Box |
| W | Water Gate |
| E | Electric Pedestal |
| | Iron Pin |
| | Light Pole |
| | INSIDE METER |
| | OUTSIDE METER |

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

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 |

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EGMA DRAWING TEMPLATE - 02-28-2023
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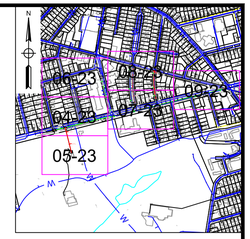
MATCH LINE - SHEET 6 OF 23




KEY MAP
SCALE: N.T.S.

3" CILP
2" PHMP-2024
SUMNER TERR
CHURCHILL ST
SUMNER AVE
6" PHLP-2014
8" PHMP-2024
2" PHMP-2014
3" CILP
SEE DETAIL A
ON SHEET #10
INSERT~338'-2" PHMP
INTO EXISTING 4" SERVICE
SEE DETAIL G
ON SHEET #16

MATCH LINE - SHEET 7 OF 23

MATCH LINE - SHEET 5 OF 23

N

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| B | REVISED PER EGMA COMMENT | 12/13/24 | KMQ/DD |
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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. |
|---|---|---|---|
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MATCH LINE - SHEET 4 OF 23

4" PL

INSERT~338'-2" PHMP
INTO EXISTING 4" SERVICE

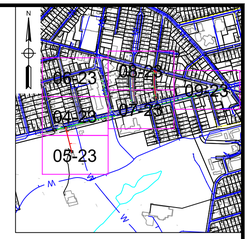
SEE DETAIL B
ON SHEET #11

4" PL

309 SUMNER AVE

MAIN GREETING

4" PL




KEY MAP
SCALE: N.T.S.

N

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | Revision/Status | | |
| | | | |
| | | | |
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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 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 |

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Jan 13, 2025 - 10:14am

Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Sumner Ave.)

453 Summer Ave - Encroachment - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_21360\

FAIRFIELD ST
3" CILP
1 1/4" PL
2" ST
LITCHFIELD ST
8" CSLP-1981
GARFIELD ST
12" CSLP-1981
OAKLAND ST
6" PHLP-1993
SEE DETAIL I
ON SHEET #18
6" PHLP-1993
8" PHMP-2024
MATCH LINE - SHEET 8 OF 23
MATCH LINE - SHEET 7 OF 23
MATCH LINE - SHEET 4 OF 23
CHURCHILL ST
SUMNER TERR
2" PHMP-2024

KEY MAP
SCALE: N.T.S.

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

Revision/Status

ISSUED FOR REVIEW

TRC
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
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 |

Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE: Sumner Ave.)

MATCH LINE - SHEET 8 OF 23

MATCH LINE - SHEET 4 OF 23

MATCH LINE - SHEET 9 OF 23

19 OAKLAND ST

16 KENWOOD TER

OAKLAND ST

KENWOOD TERR

BEAUMONT ST

SUMNER AVE

PARKWOOD ST

CONTINENTAL ST

2" ST

1 1/4" PL

1 1/4" PL

12'±

OC~453'-2" PHMP

12'±

OC~368'-2" PHMP

4" CILP-1914

5'±

SEE DETAIL C
ON SHEET #12

SEE DETAIL F
ON SHEET #15

6" CILP

2" PHMP-2024

2" PHMP-2024

2" PHMP-2024

8" PHMP-2024

8" PHMP-2024

6" PHLP-1993

6" CILP

6" CILP

2" PHMP-2024

6" CILP

2" PHMP-2024

KEY MAP
SCALE: N.T.S.

05-23

N

| No. | Description | Date | Dw/Ck |
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| B | REVISED PER EGMA COMMENT | 12/13/24 | KMQ/DD |
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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" 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 |

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Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE: Sumner Ave.)

453 Sumner Ave - Encroachment - Pro Drawing RevB.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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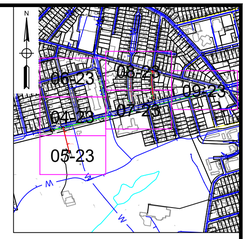


KEY MAP
SCALE: N.T.S.

BELMONT AVE
BEAUMONT TER
KENWOOD TER
BEAUMONT ST
OAKLAND ST
16 BEAUMONT ST

6" PHLP-1997
6" PHLP-1997
6" PHLP-1997
8" PHMP-2023
6" CILP
6" CILP
4" CILP-1914
4" CILP-1914
OC~453'-2" PHMP
OC~368'-2" PHMP
OC~50'-8" PHMP
5'±
11'±
5'±
4'±

SEE DETAIL J ON SHEET #19
SEE DETAIL D ON SHEET #13
SEE DETAIL E ON SHEET #14

MATCH LINE - SHEET 6 OF 23
MATCH LINE - SHEET 9 OF 23
MATCH LINE - SHEET 7 OF 23

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| B | REVISED PER EGMA COMMENT | 12/13/24 | KMQ/DD |
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EVERSOURCE ENERGY

453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA
PROJECT # 25EG095 / WORK ORDER # 19253953
PROJECT LOCATION PLANS
SCALE: 1"=30' ON 22"X34" SHEET 08 OF 23

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 11/11/2024 | DD 11/15/2024 | MA-SPR-PIP-24-294-08 | B |

Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE: Sumner Ave.)

453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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MATCH LINE - SHEET 8 OF 23

MATCH LINE - SHEET 7 OF 23

BURLINGTON ST

BELMONT AVE

DICKINSON ST

SUMNER AVE

CLIFTWOOD ST

LENOX ST

THE X CT

6" PHLP-1997

8" PHMP-2023

6" PHLP-1997

8" PHMP-2023

6" CILP-1898

8" PHMP-2023

16" CILP-1911

6" CILP

SEE DETAIL H
ON SHEET #17

6" CILP-1898

6" PHLP-1994

6" CILP-1896

8" PHMP-2024

6" CILP

2" PHMP-2024

8" PHMP-2023

KEY MAP
SCALE: N.T.S.

N

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

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FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

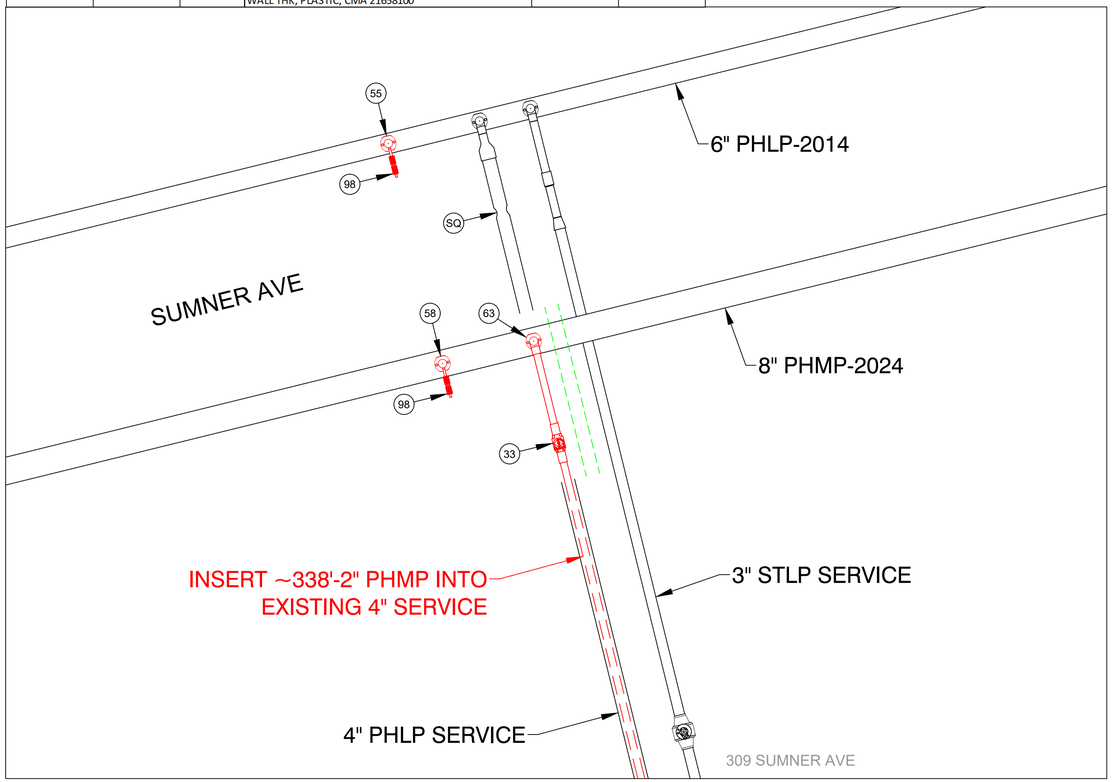
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA
PROJECT # 25EG095 / WORK ORDER # 19253953
PROJECT LOCATION PLANS
SCALE: 1"=30' ON 22"X34" SHEET 09 OF 23

| 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 |

Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE: Sumner Ave.)

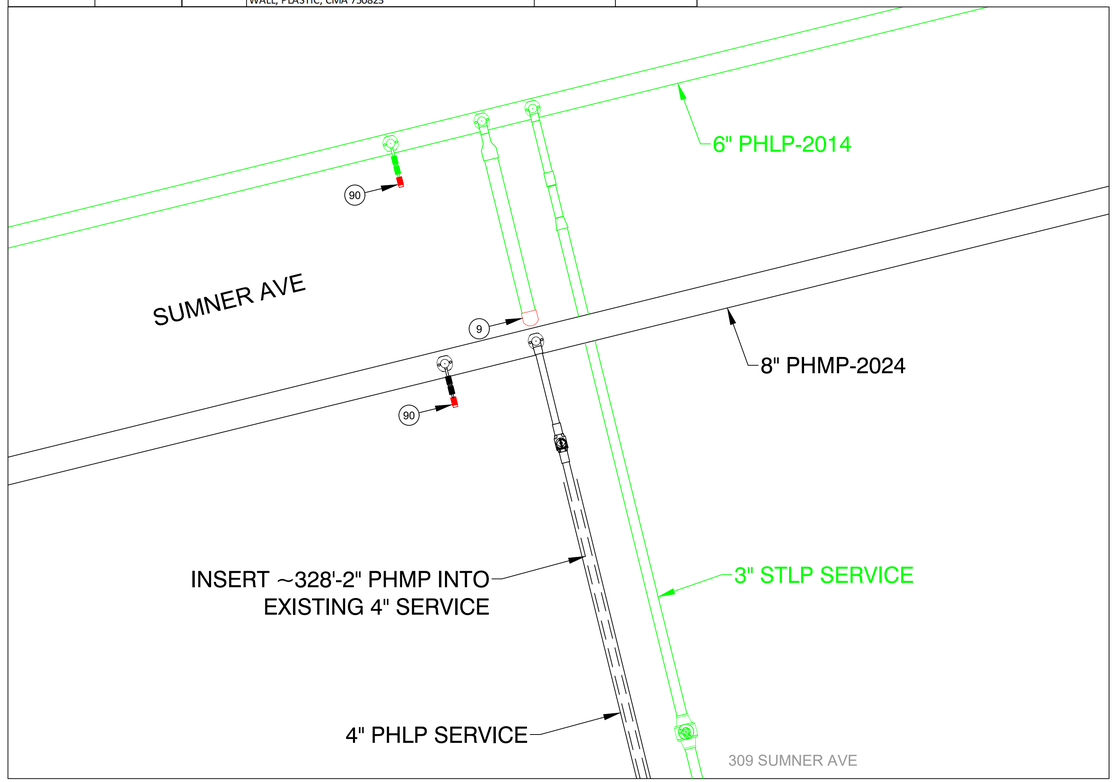
Jan 13, 2025 - 10:14am

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

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 | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 11/11/2024 | DD 11/15/2024 | MA-SPR-PIP-24-294-10 | B |

453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg
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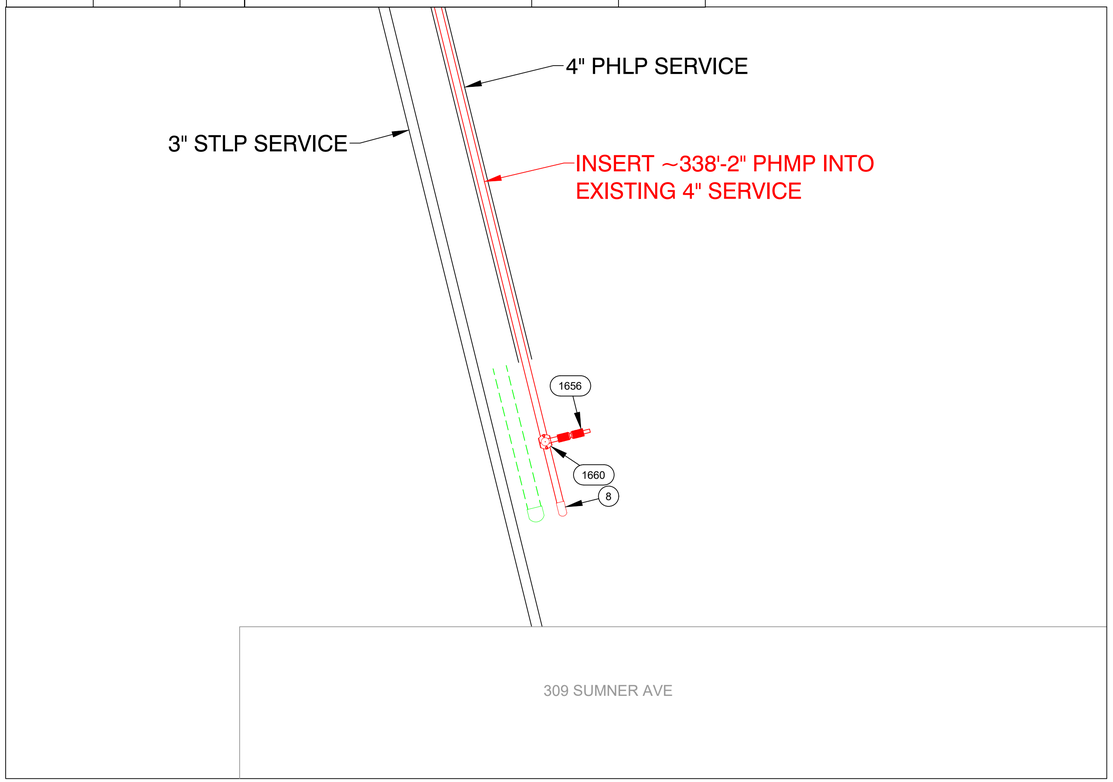
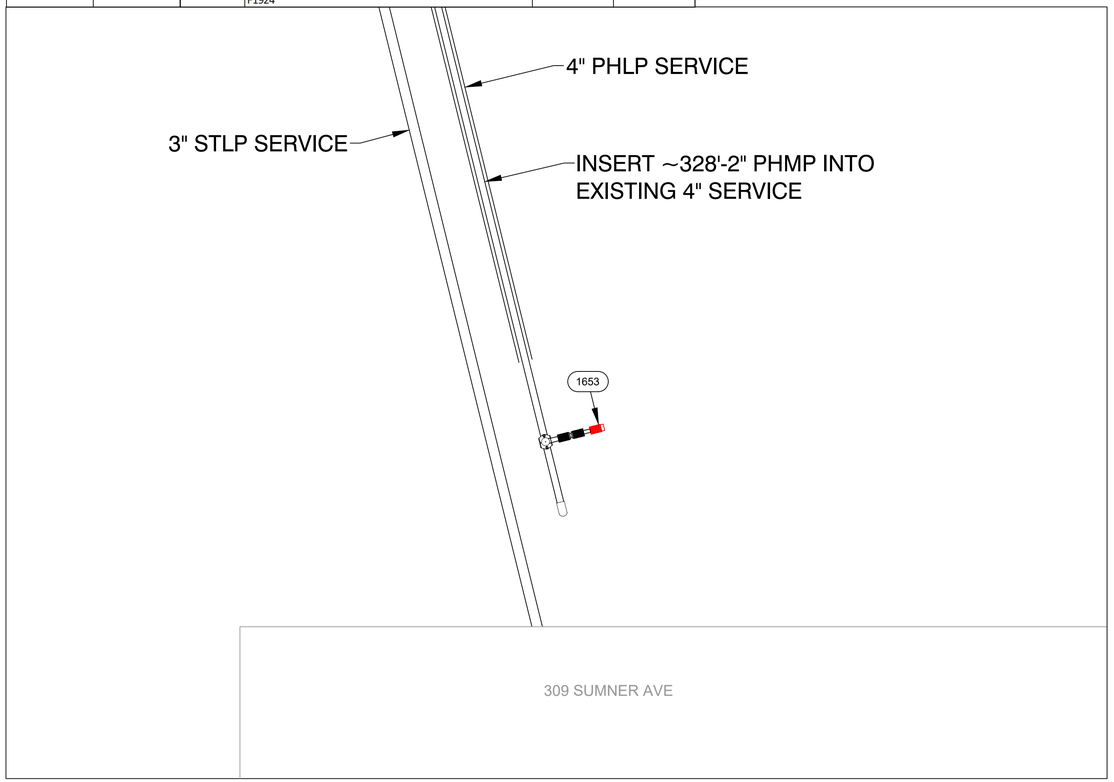
| 453 SUMNER AVE, SPRINGFIELD | | | | | DETAIL "B" PREPARATORY |
|---|---|---|---|---|---|
| REQUIRED BILL OF MATERIALS | | | | | |
| Item Number | MRC Stock Number | Maximo Part Number | Description | Quantity | Units |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, 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

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

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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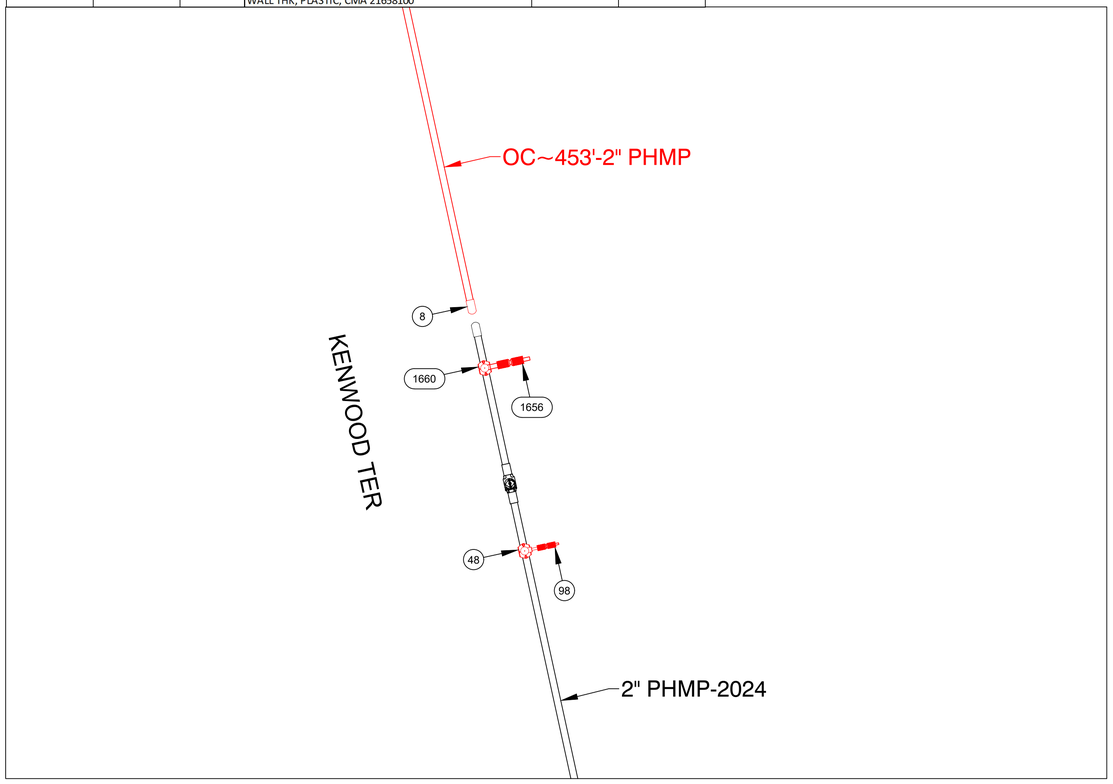
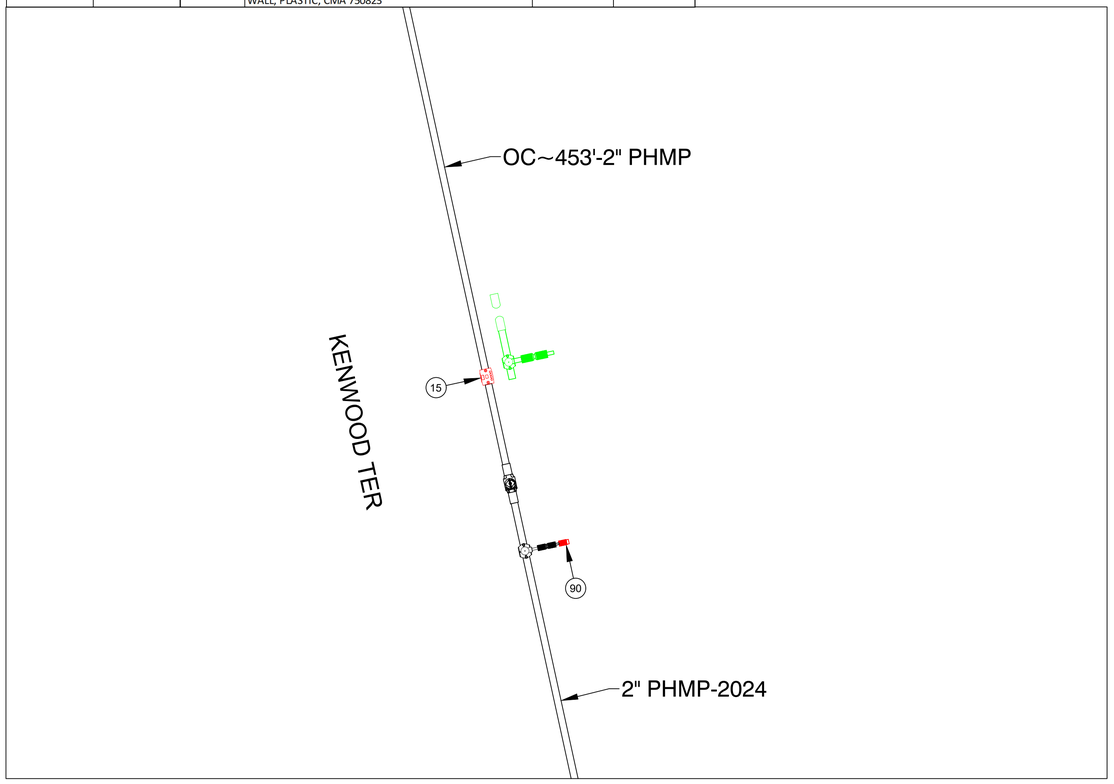
| 453 SUMNER AVE, SPRINGFIELD | | | | DETAIL "C" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, PIPE, 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

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

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. |
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| KMQ 11/11/2024 | DD 11/15/2024 | MA-SPR-PIP-24-294-12 | B |

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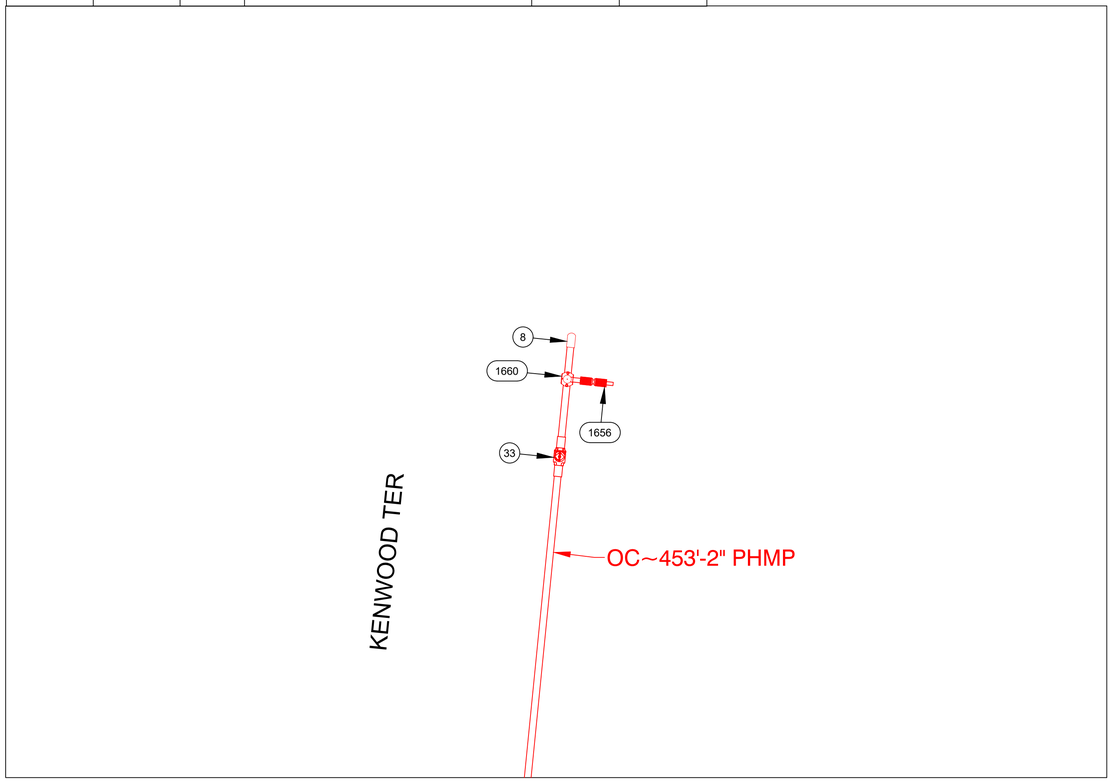
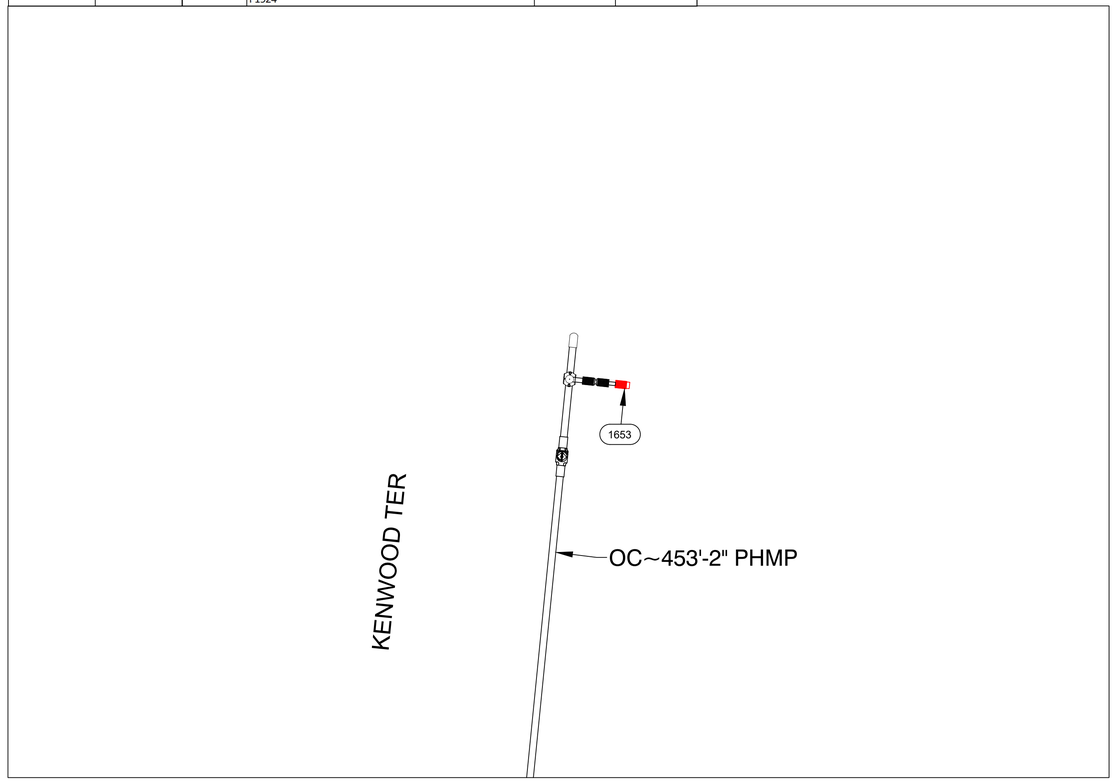
| 453 SUMNER AVE, SPRINGFIELD | | | | DETAIL "D" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, PIPE, 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

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

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 |

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EGMA DRAWING TEMPLATE - 02-28-2023
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Jan 13, 2025 - 10:14am
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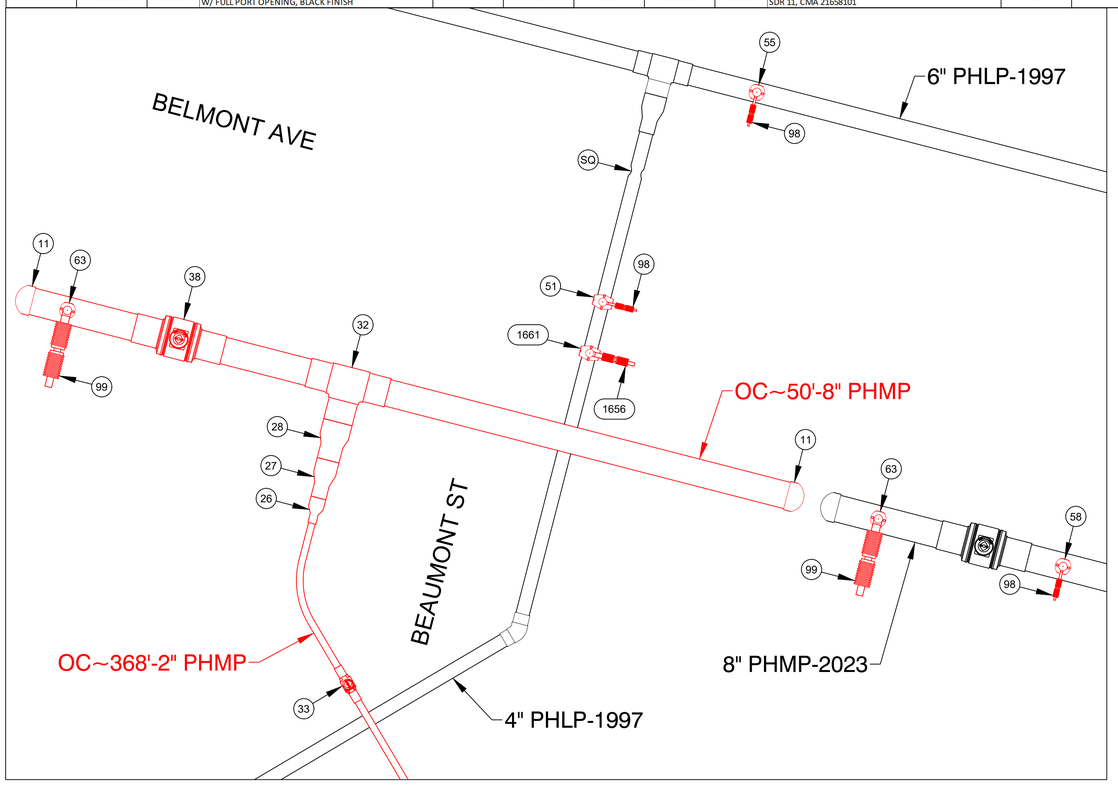
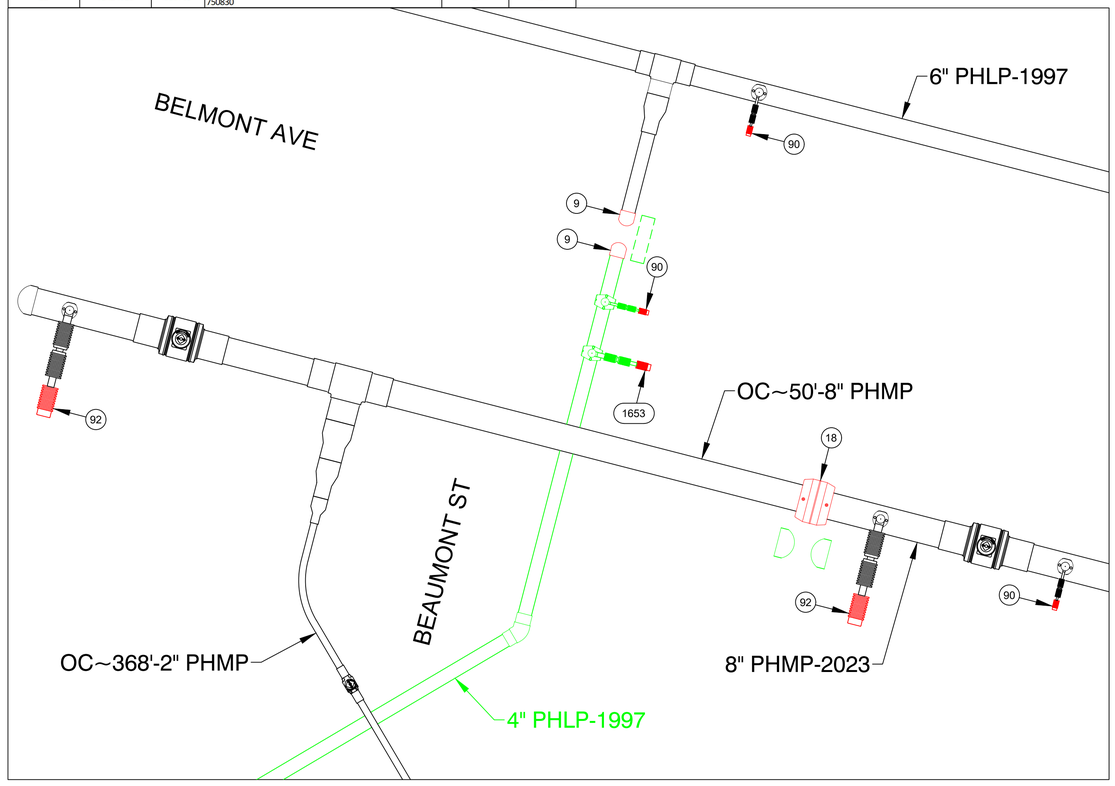
| 453 SUMNER AVE, SPRINGFIELD | | | | DETAIL "E" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 11 | 63078069 | 542540 | CAP,PIPE, 8 IN IPS SDR 11, 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

ISSUED FOR REVIEW

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

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

Revision/Status

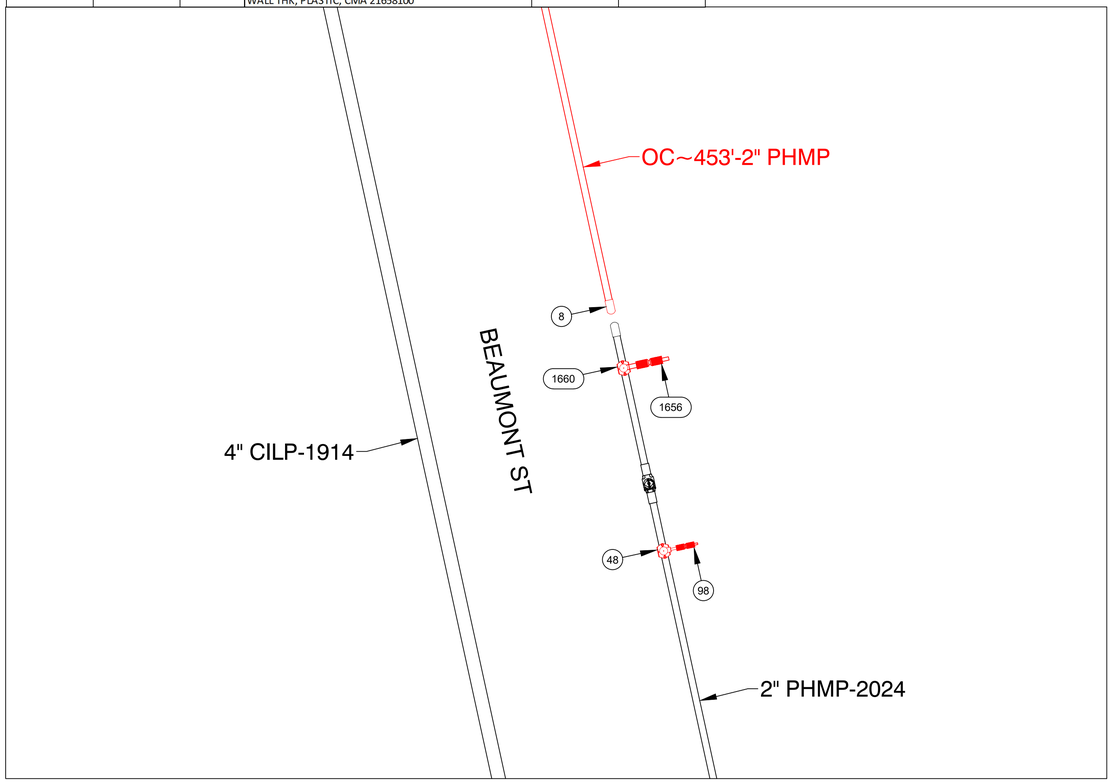
EVERSOURCE ENERGY

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 | Rev. No. |
|---|---|---|---|
| KMQ 11/11/2024 | DD 11/15/2024 | MA-SPR-PIP-24-294-14 | B |

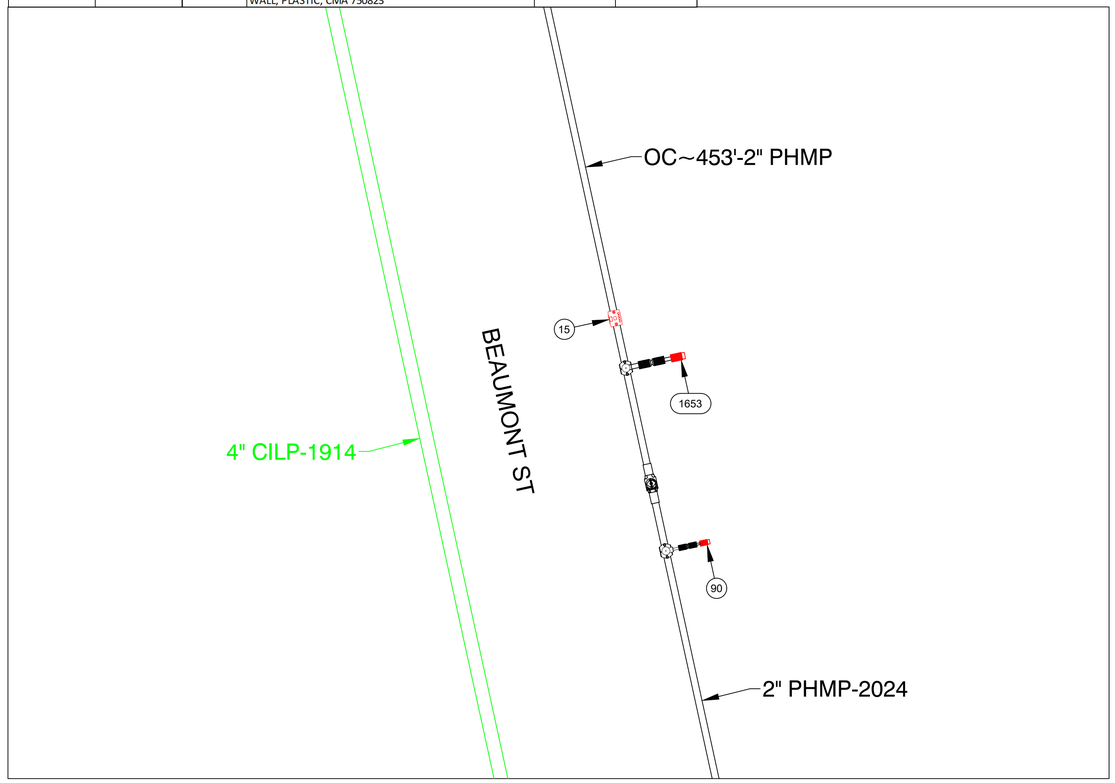
453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_21360\
Jan 13, 2025 - 10:14am
Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Sumner Ave.)

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

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

Revision/Status

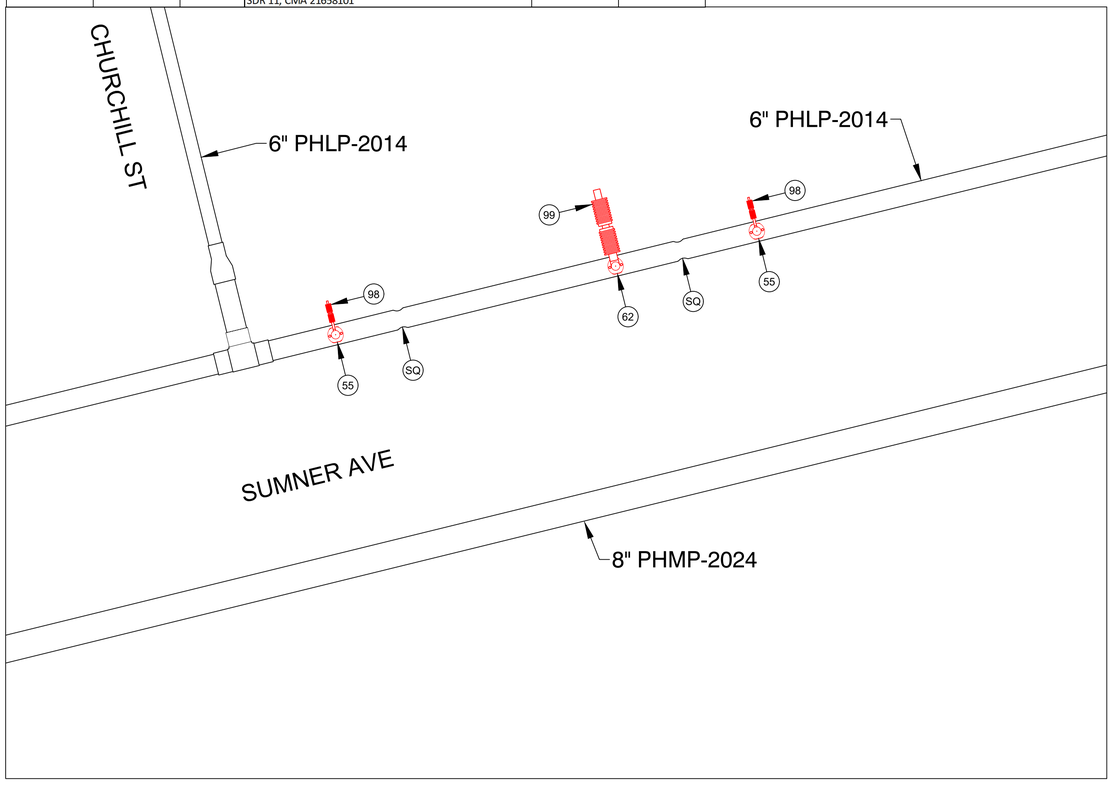
EVERSOURCE ENERGY

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 | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 11/11/2024 | DD 11/15/2024 | MA-SPR-PIP-24-294-15 | B |

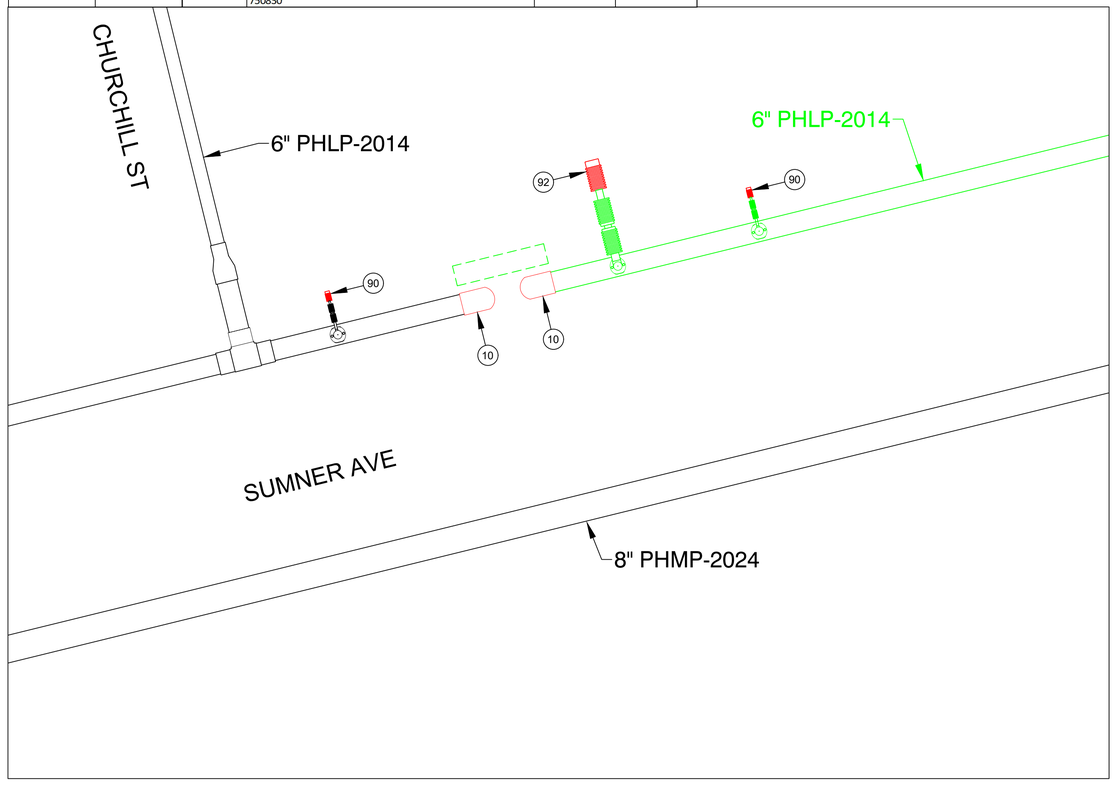
453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_21360\
Jan 13, 2025 - 10:14am
Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Sumner Ave.)

| 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

ISSUED FOR REVIEW

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

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

Revision/Status

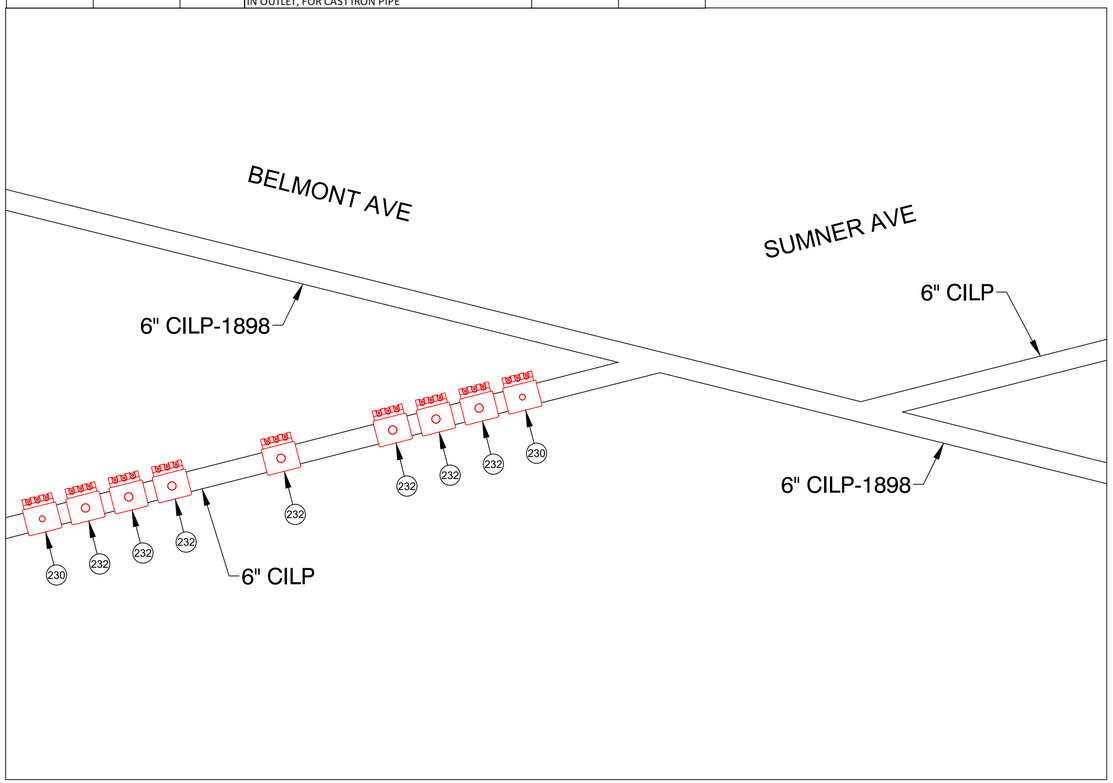
EVERSOURCE ENERGY

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 |

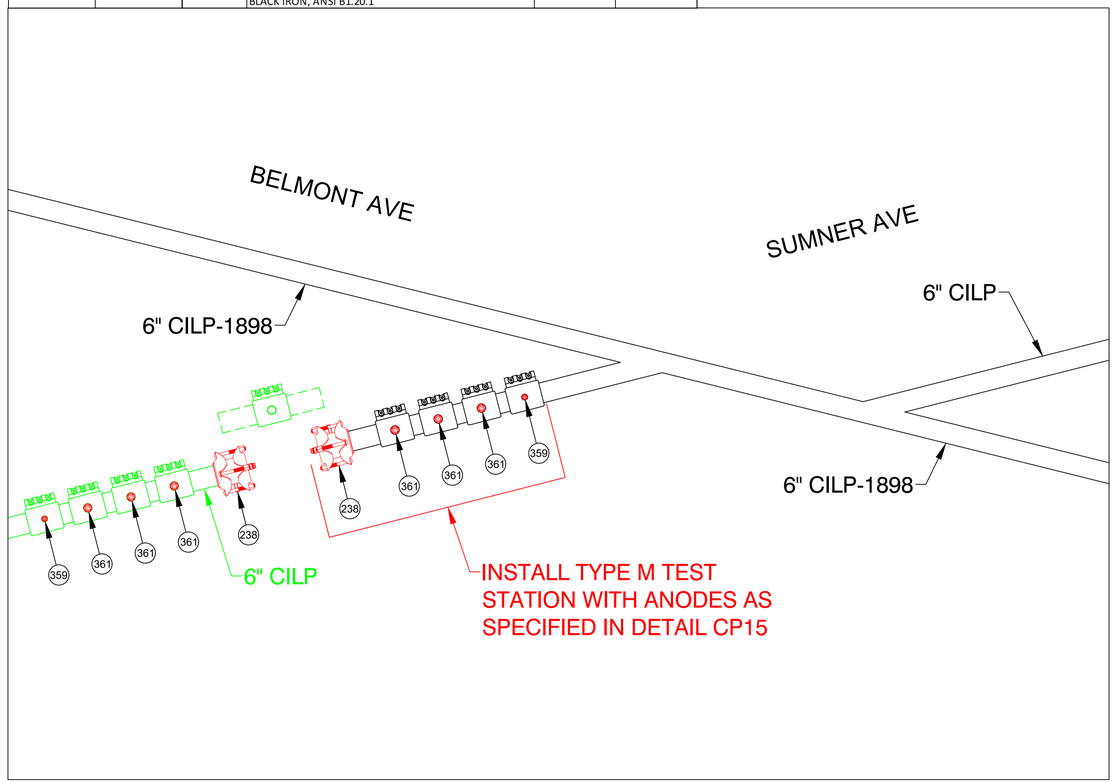
453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_21360\
Jan 13, 2025 - 10:14am
Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE: Sumner Ave.)

| 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

ISSUED FOR REVIEW

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

Know what's below.
Call before you dig.

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

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

Revision/Status

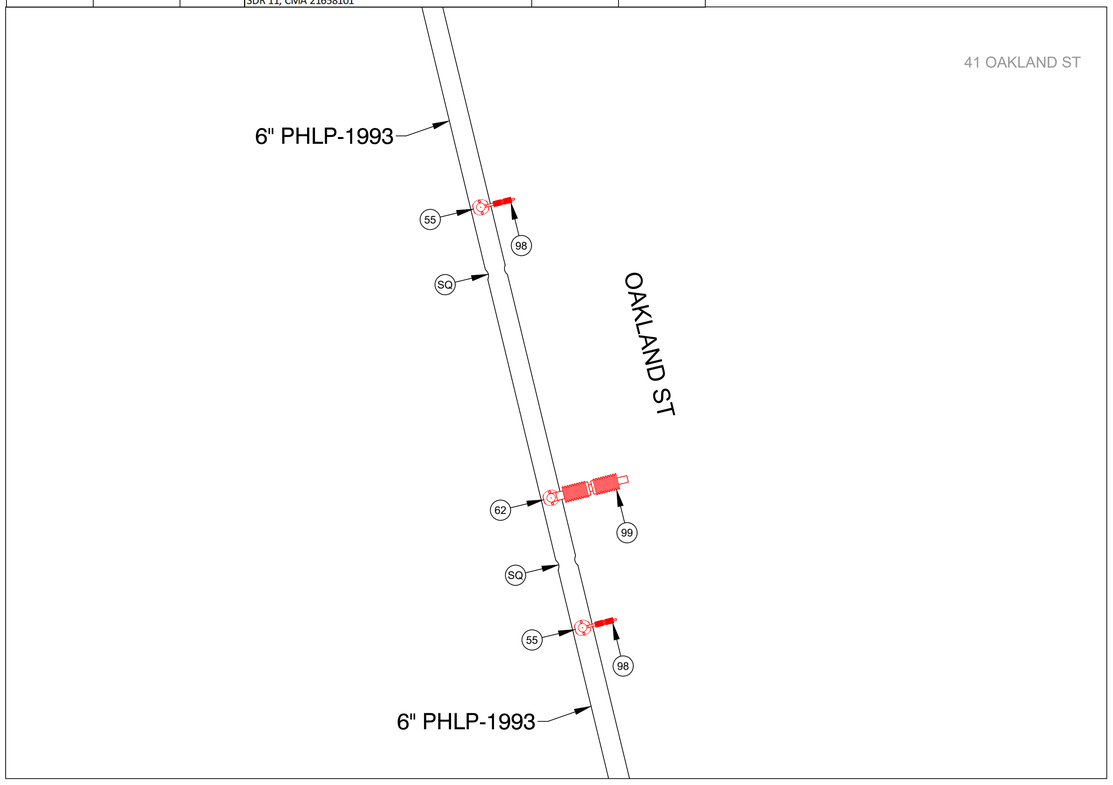
EVERSOURCE ENERGY

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 |

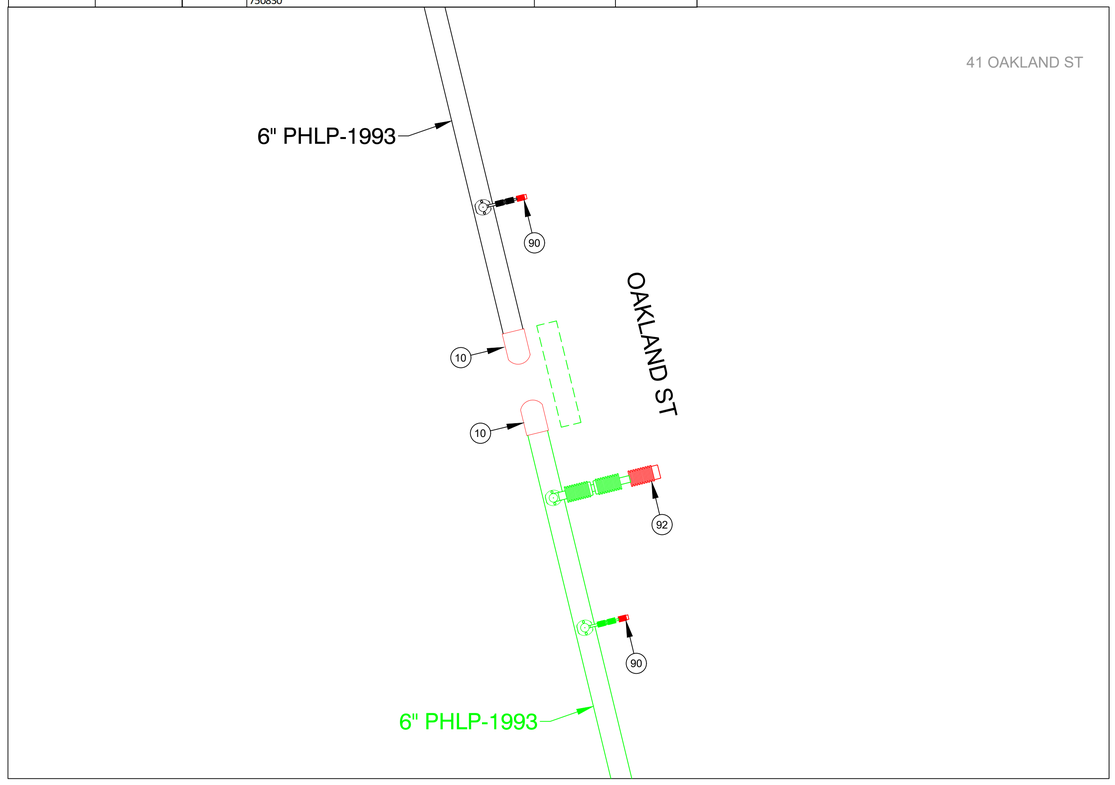
453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_21360\
Jan 13, 2025 - 10:14am
Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Sumner Ave.)

| 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

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

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

Revision/Status

EVERSOURCE ENERGY

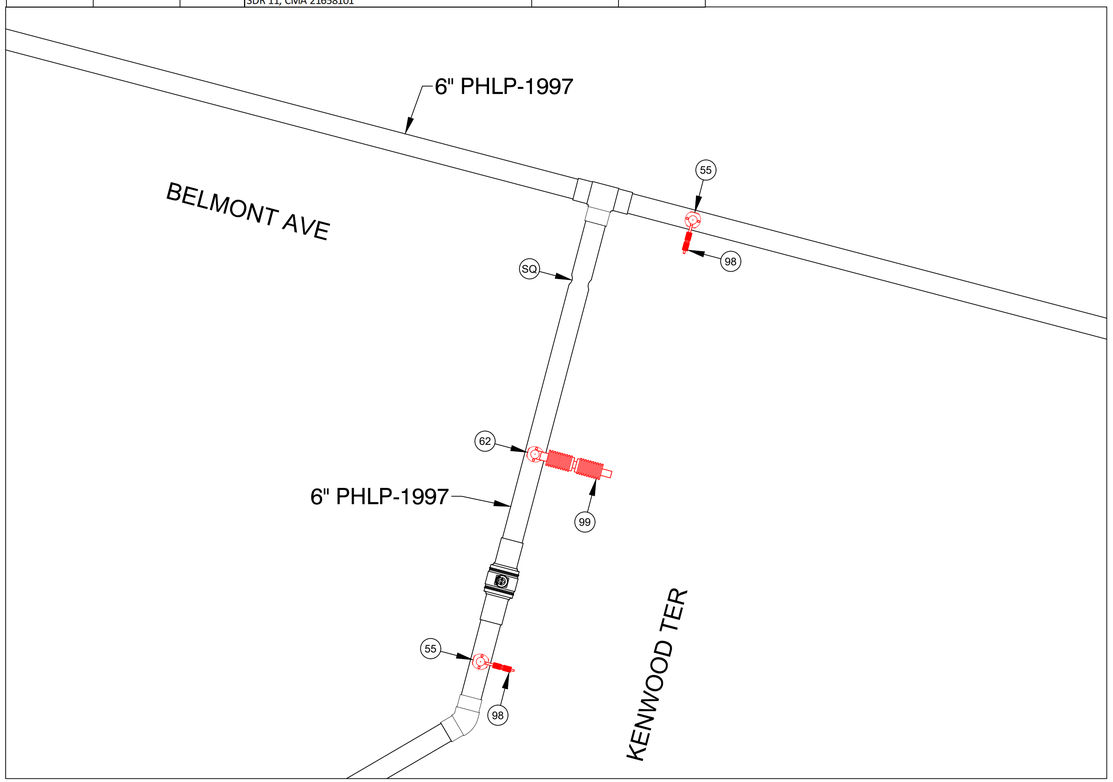
453 SUMNER AVE - ENCROACHMENT, SPRINGFIELD, MA
PROJECT # 25EG095 / WORK ORDER # 19253953
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=30' ON 22"X34" SHEET 18 OF 23

| 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 |

453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_21360\
Jan 13, 2025 - 10:14am

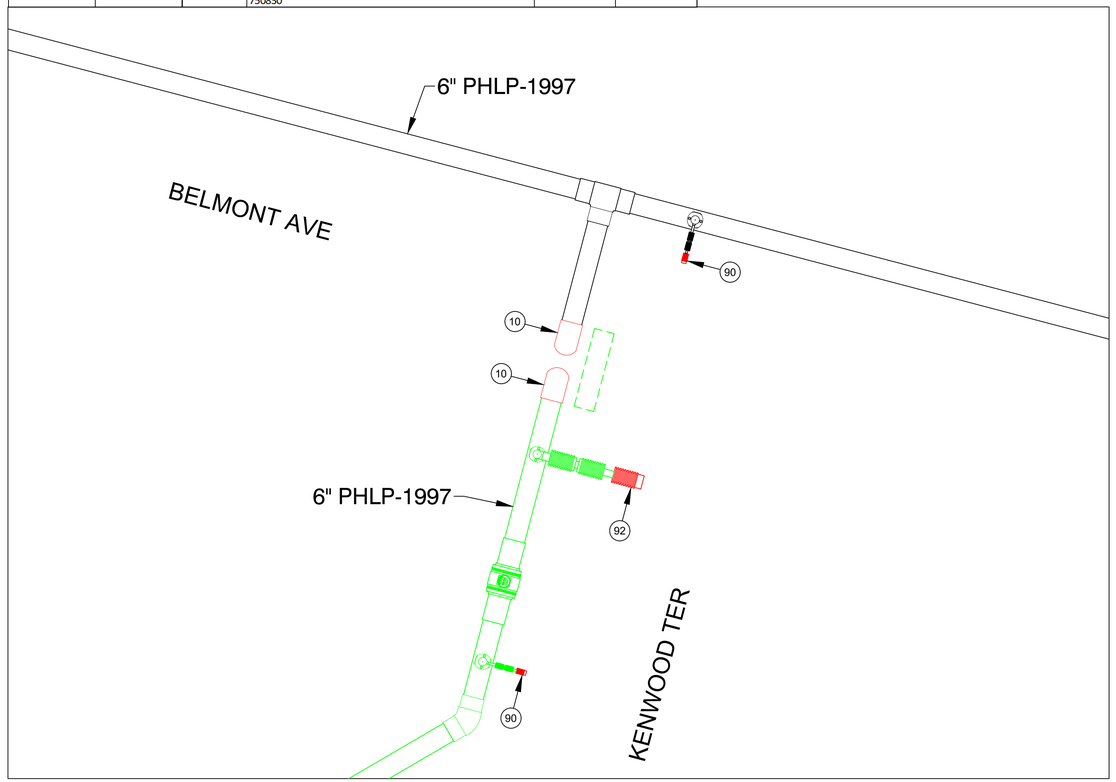
Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Sumner Ave.)

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

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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

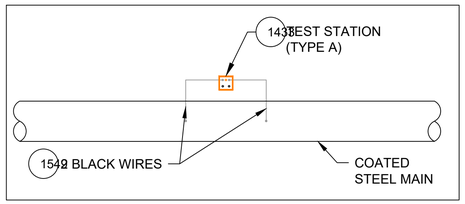
Revision/Status

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 |

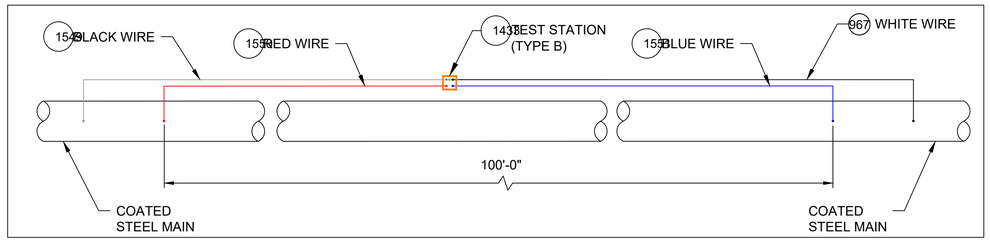
453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_21360\
Jan 13, 2025 - 10:14am
Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE: Sumner Ave.)




TYPE A TEST STATION

DETAIL CP1

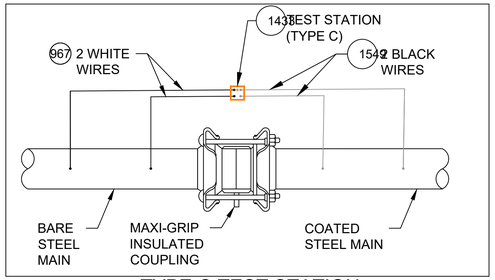
SCALE: 1/2" = 1'-0"




TYPE B TEST STATION

DETAIL CP2

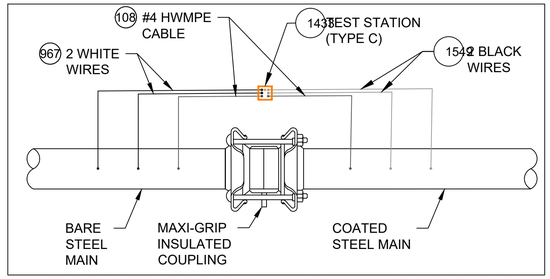
SCALE: 1/2" = 1'-0"




TYPE C TEST STATION

DETAIL CP3

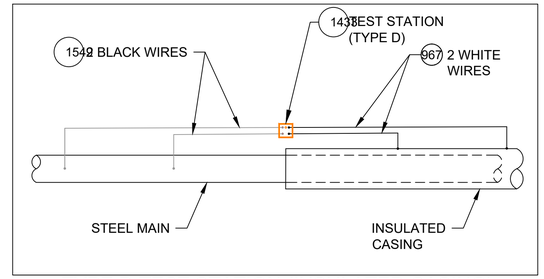
SCALE: 1/2" = 1'-0"




TYPE C TEST STATION - WITH #4 HWMPE CABLE

DETAIL CP4

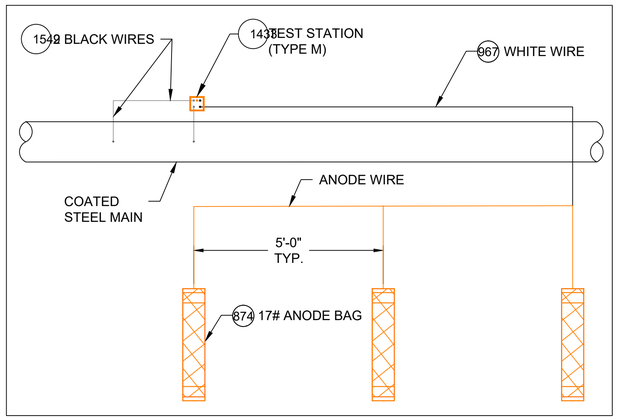
SCALE: 1/2" = 1'-0"




TYPE D TEST STATION (INSULATED CASING)

DETAIL CP5

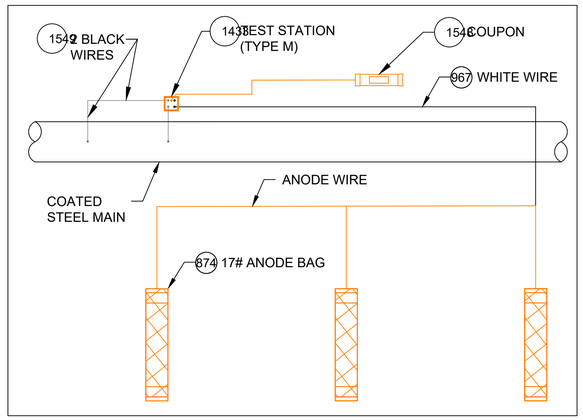
SCALE: 1/2" = 1'-0"




TYPE M TEST STATION (WITH ANODES)

DETAIL CP6

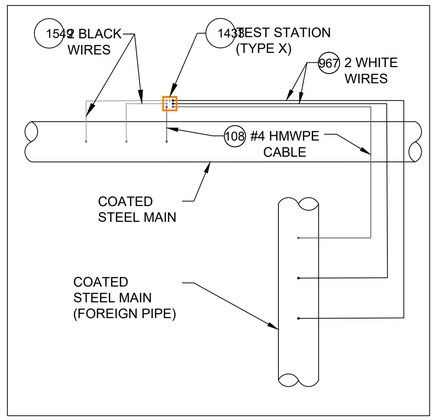
SCALE: 1/2" = 1'-0"




TYPE M TEST STATION (WITH COUPON AND ANODES)

DETAIL CP7

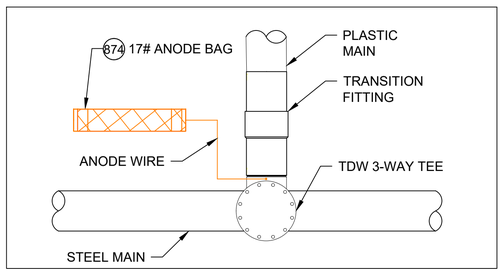
SCALE: 1/2" = 1'-0"




TYPE X TEST STATION

DETAIL CP8

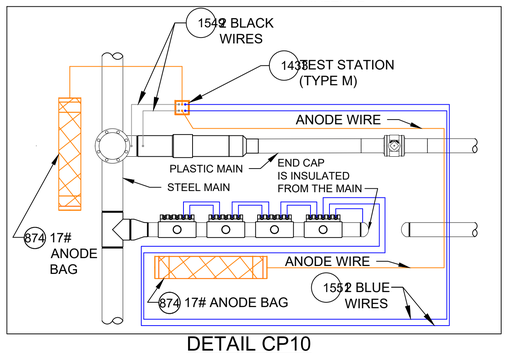
SCALE: 1/2" = 1'-0"




TDW 3-WAY TEE WITH ANODE

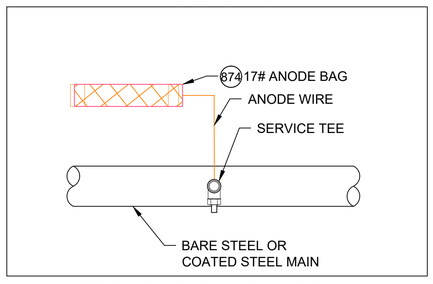
DETAIL CP9

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, 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, 0F 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:

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.

| No. | Description | Date | Dw/Ck/Ap |
|---|---|---|---|
| 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 |

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

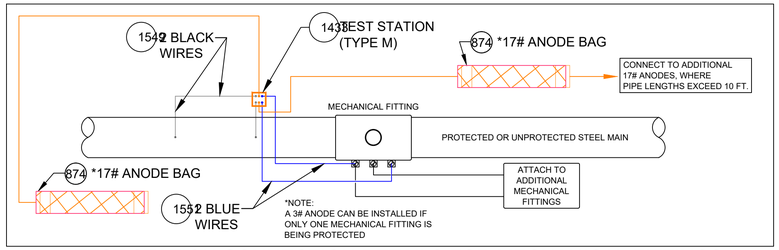
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| Drawn by / Date | Checked by / Date | Sheet Number | Rev. No. |
|---|---|---|---|
| WBH 10/05/20 | KJK 10/19/20 | MA-COR-STD-001-01 | 6 |
| Approved by / Date: MJL 10/19/20 | 453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg | | |

C:\Users\kquinton\AppData\Local\Temp\AcPublish_21360\453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg

Jan 13, 2025 - 10:14am

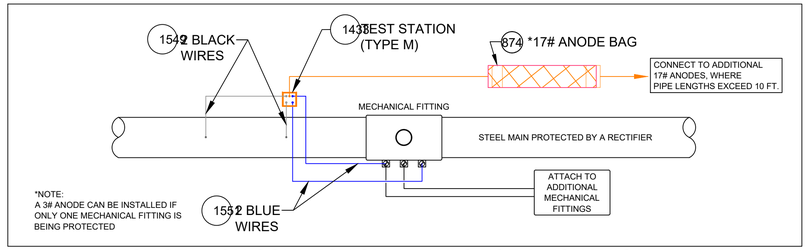
Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Sumner Ave.)




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

DETAIL CP12

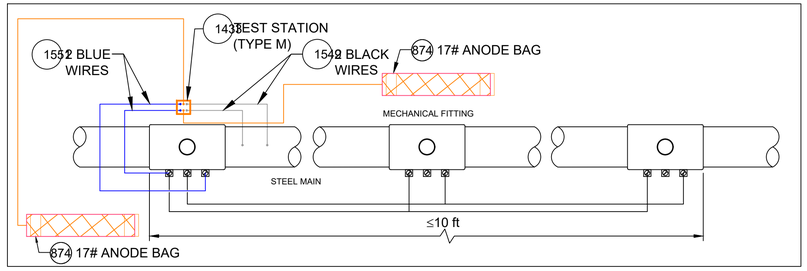
SCALE: 1/2" = 1'-0"




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

DETAIL CP13

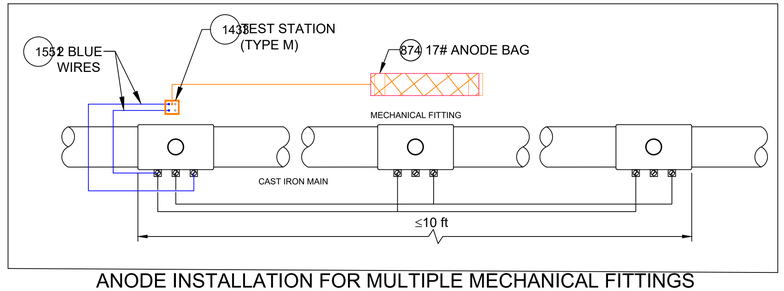
SCALE: 1/2" = 1'-0"




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

DETAIL CP14

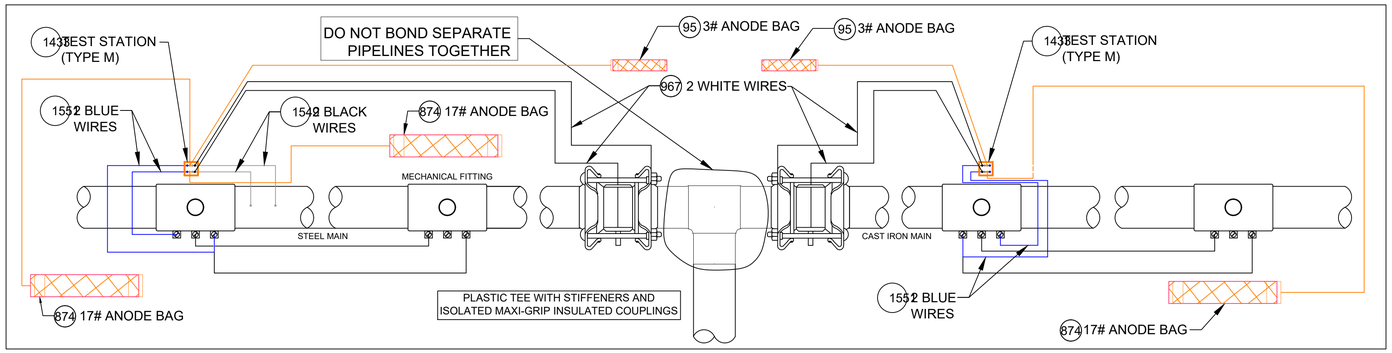
SCALE: 1/2" = 1'-0"




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

DETAIL CP15

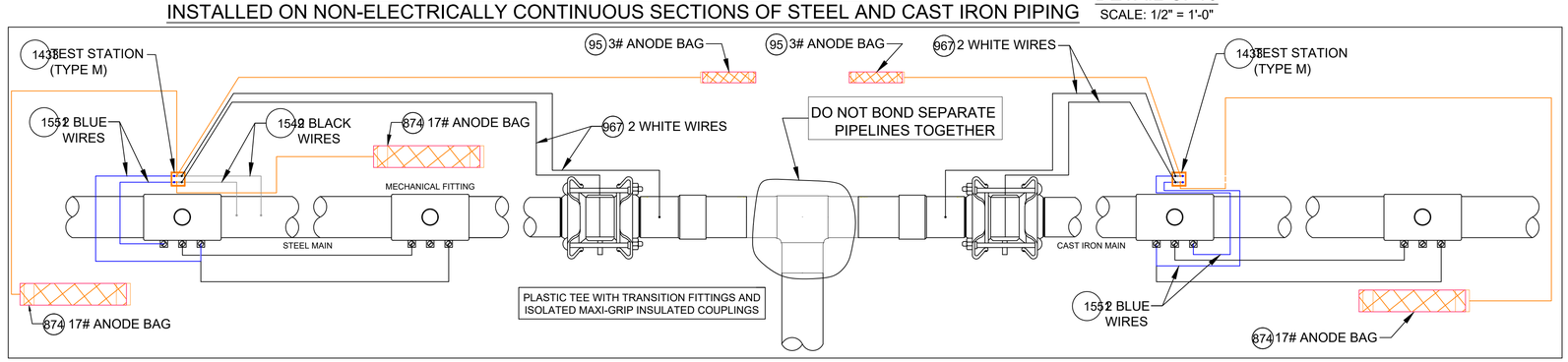
SCALE: 1/2" = 1'-0"




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, 0F 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:

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: 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.

| No. | Description | Date | Dw/Ck/Ap |
|---|---|---|---|
| 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 |

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| Drawn by / Date | Checked by / Date | Sheet Number | Rev. No. |
|---|---|---|---|
| WBH 10/05/20 | KJK 10/19/20 | MA-COR-STD 001-02 | 6 |
| Approved by / Date MJL 10/19/20 | 453 Sumner Ave - Encroachment - Pro Drawing Rev6.dwg | | |

Attachment: 453 Sumner Ave - Encroachment - Pro Drawing Rev6.dwg (8505 : EVERSOURCE- Sumner Ave.)

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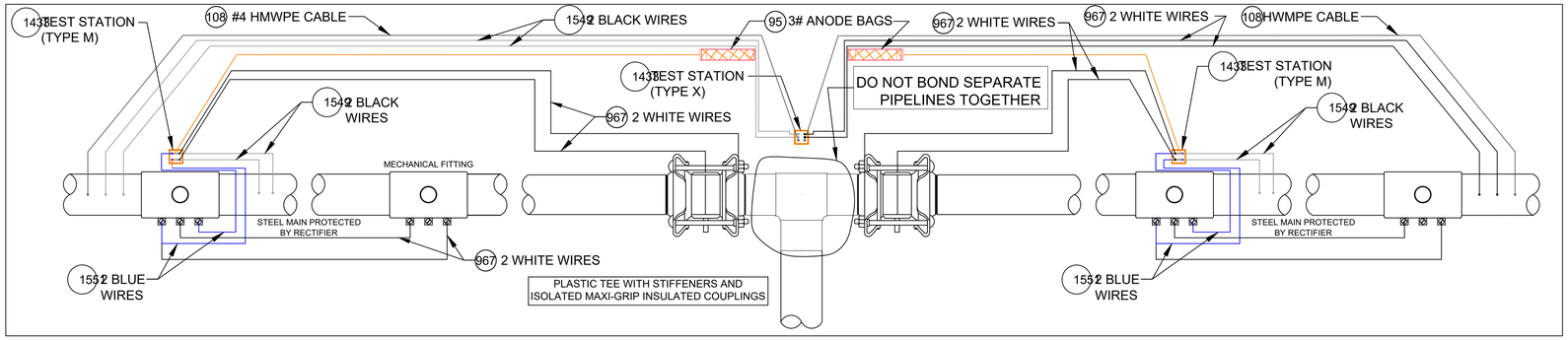
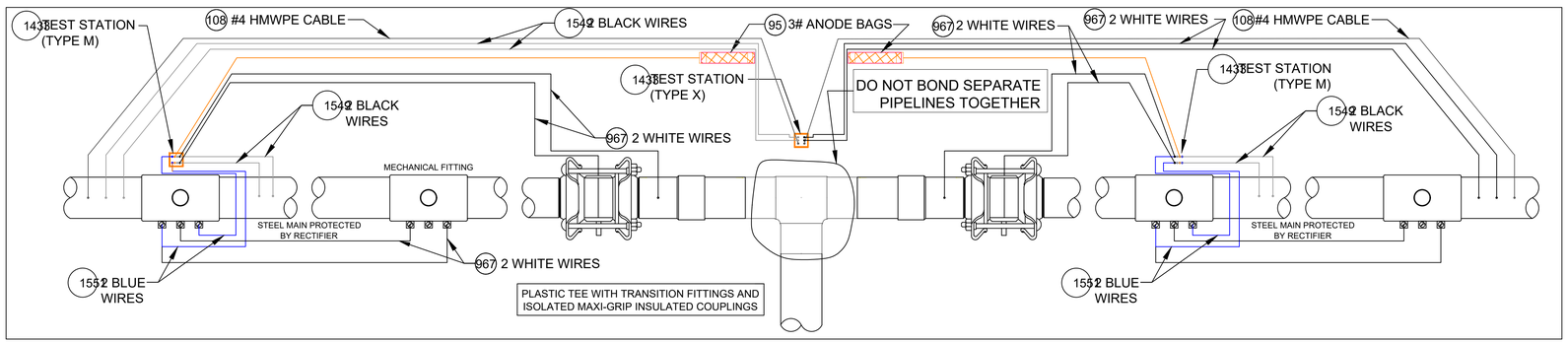


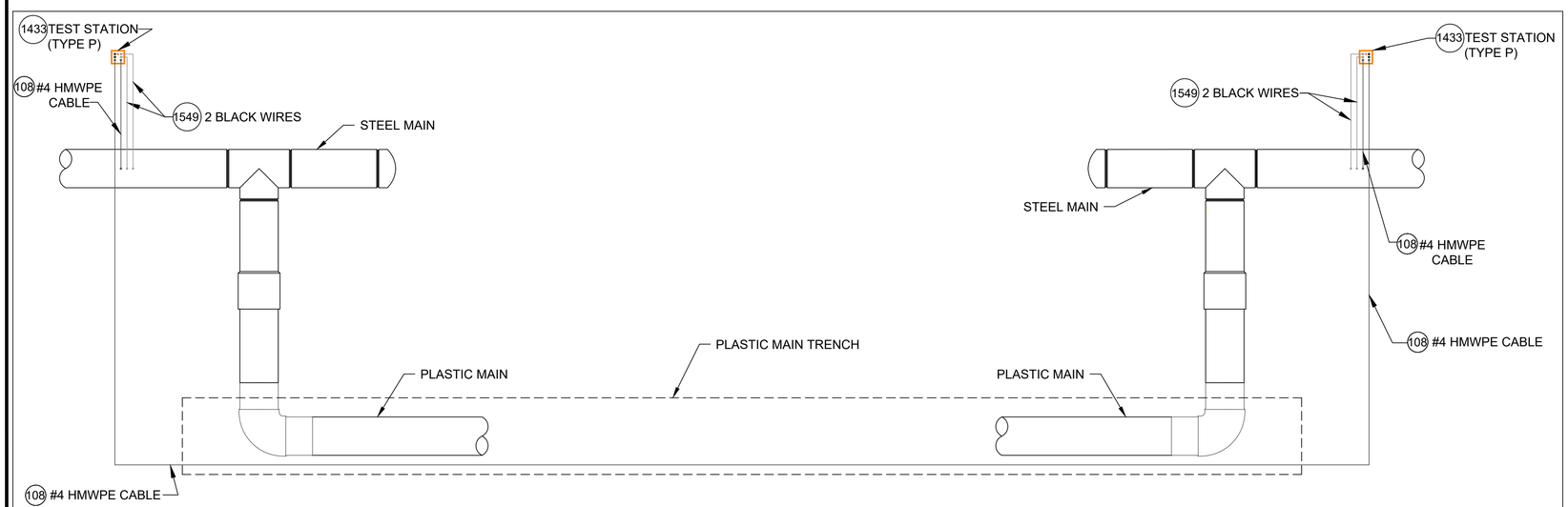

## ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF COATED STEEL PIPING

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, 0F 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:

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.
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| 1 | ADDED DETAILS CP12 & CP13, NOTES AND REVISED BOM | 02/02/21 | WBH/KJK/MJL |

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| Drawn by / Date | Checked by / Date | Sheet Number | Rev. No. |
|---|---|---|---|
| WBH 10/05/20 | KJK 10/19/20 | MA COR STD 001.03 | 6 |
| Approved by / Date MJL 10/19/20 | 453 Sumner Ave - Encroachment - Pro Drawing Rev0.dwg | | |

Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Summer Ave.)

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Jan 13, 2025 - 10:14am

453 Summer Ave - Encroachment - Pro Drawing Rev0.dwg

Attachment: 453 Sumner Ave - Encroachment - Pro Drawing RevB (8505 : EVERSOURCE- Sumner Ave.)

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

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 | Drawing Number | Rev. No. |
|---|---|---|---|
| | | MA-SPR-PIP-24-294-23 | B |

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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Jan 13, 2025 - 10:14am

CITY OF SPRINGFIELD, MASSACHUSETTS

February 11, 2025

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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.

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BOARD OF PUBLIC WORKS

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

**City Council**
36 Court Street
Springfield, MA 01103

**TABLED**

**PETITION (ID # 8506)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8506

# EVERSORCE - Memorial Dr.

## ORDER FOR LOCATION OF UNDERGROUND CONDUIT

**WHEREAS** The Board of Public Works, to which was referred the petition Memorial Dr. of Everesource 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.

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**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.

**HISTORY:**

**03/10/25 City Council REFER TO COMMITTEE Next: 04/07/25**

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 : EVERSORCE - 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.

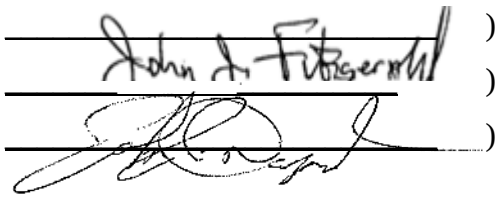
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

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.



) BOARD OF PUBLIC WORKS

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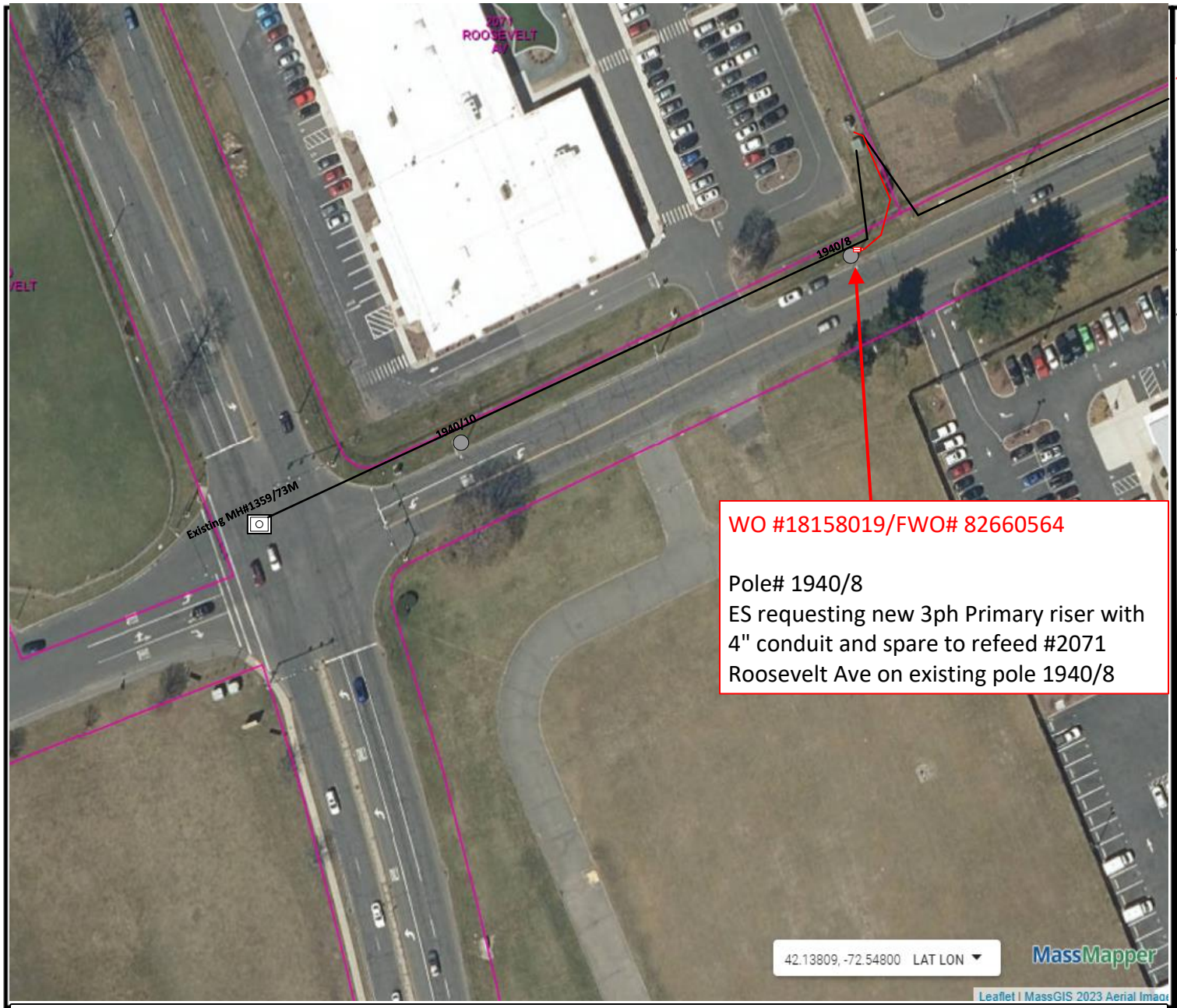
Attachment: Memorial Dr. Report (8506 : EVERSORCE - Memorial Dr.)




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
- M EXISTING MANHOLE
- UG EXISTING CONDUIT
- UG PROPOSED CONDUIT
- HH PROPOSED HANDHOLE
- HH 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

Scale: NTS

| | |
|---|---|
| Address: | Memorial Dr, Springfield Ma |
| Date: | 11/15/2024 |
| Circuit: | 5J9/5J14B |
| Voltage: | 13.8KV |
| WO# | 18158019 |
| FWO# | 82660564 |

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)

Attachment: Petition Memorial Dr Springfield WO 18158019 (8506 : EVERSORCE - Memorial Dr.)

# 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 : EVERSORCE - Memorial Dr.)

**City Council**
36 Court Street
Springfield, MA 01103

**SCHEDULED**

**PETITION (ID # 8183)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8183 A

# EVERSOURCE- Main Street

## ORDER FOR LOCATION OF UNDERGROUND CONDUIT

**WHEREAS,** The Board of Public Works, to which was referred the petition of Eversource-Gas to install new plastic underground gas facilities within a section of Memorial Square Neighborhood on Main Street and Morgan Street and retire low-pressure cast iron gas infrastructure.

**WHEREAS,** said petition Main Street was referred to the Board of Public Works on June 10, 2024; and

**WHEREAS,** On June 25, 2024, a Notice of a Public Hearing on Main Street to be held on July 9, 2024, 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 July 9, 2024, the Board of Public Works reported thereon that, after careful consideration of the petition of Main Street to install underground gas facilities within a section of the Memorial Square Neighborhood (Morgan Street and Main Street) to retire low-pressure cast iron gas infrastructure and update the system to medium-pressure., all as substantially shown on a plan attached with project name:

Main Street

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 Main Street 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 following 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 following the City of Springfield DPW requirements.

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

EVERSOURCE ENERGY

June 10th, 2024

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

ATTN: Gladys Oyola-Lopez, City Clerk

**PROJECT NAME: Main St – Operations**

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 Memorial Square Neighborhood (as seen in the attached plan). Work will extend to the following streets in varying degrees/durations:

| Street Name | From | To |
|---|---|---|
| Main Street | Bond Street | Bancroft Street |
| Morgan Street | Main Street | Dwight Street |

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

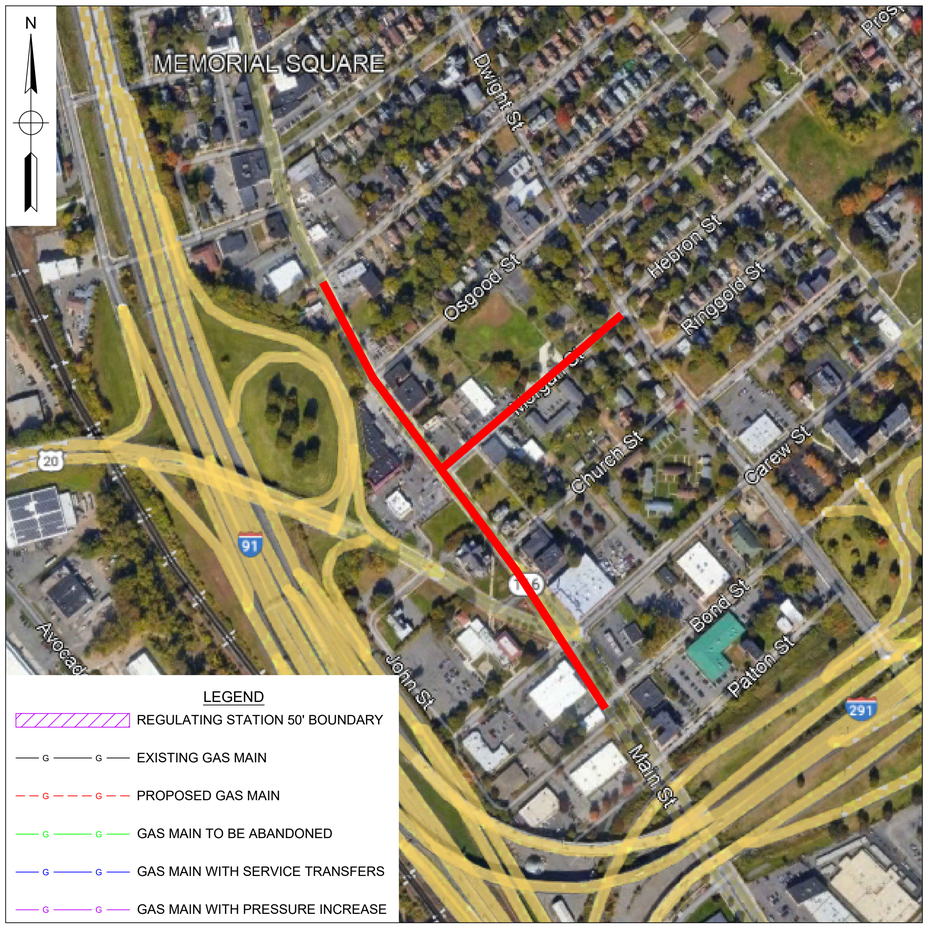
Ryan Barnes
Engineer
Eversource Energy
2025 Roosevelt Ave.
Springfield, MA 01104
Cell: 413-262-3563
Email: ryan.barnes@eversource.com

Attachment: Main St - Springfield City Council Letter (8183 : EVERSOURCE- Main Street)

## TABLE OF CONTENTS


| SHEET # | TITLE |
|---|---|
| 01 OF 15 | COVER SHEET |
| 02 OF 15 | NOTES |
| 03 OF 15 | LEGEND |
| 04 OF 15 | PROJECT LOCATION PLAN |
| 05 OF 15 | PROJECT LOCATION PLAN |
| 06 OF 15 | MA PREPARATORY AND FINAL TIE-IN DETAILS A |
| 07 OF 15 | MA PREPARATORY AND FINAL TIE-IN DETAILS B |
| 08 OF 15 | MA PREPARATORY AND FINAL TIE-IN DETAILS C |
| 09 OF 15 | MA PREPARATORY AND FINAL TIE-IN DETAILS D |
| 10 OF 15 | MA PREPARATORY AND FINAL TIE-IN DETAILS E |
| 11 OF 15 | MA PREPARATORY AND FINAL TIE-IN DETAILS F |
| 12 OF 15 | MA CORROSION DETAILS (1 OF 3) |
| 13 OF 15 | MA CORROSION DETAILS (2 OF 3) |
| 14 OF 15 | MA CORROSION DETAILS (3 OF 3) |
| 15 OF 15 | BLANK GRIDDED SHEET |


EVERSOURCE ENERGY




LEGEND

- 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

WORK SCOPE

**PROJECT SUMMARY TABLE**
**INSTALLATION INFORMATION**

| Work Type | LENGTH (FT) | SIZE (IN) | MAOP | MATERIAL |
|---|---|---|---|---|
| INSTALL | 900' | 2" | 60 psig - MP | HDPE |
| INSTALL | 1,350' | 6" | 60 psig - MP | HDPE |
| INSTALLATION TOTAL | | | | 2,250' |
| UPRATE/RETEST TOTAL | | | | 0' |

**PROJECT SUMMARY TABLE**
**ABANDONMENT INFORMATION**

| LENGTH (FT) | SIZE (IN) | MAOP | ABANDONMENT CLASS |
|---|---|---|---|
| 16' | 4" | 14" WC | CI-(GSEP) |
| 657' | 6" | 14" WC | CI-(GSEP) |
| 1,378' | 12" | 14" WC | CI-(GSEP) |
| 276' | 6" | 14" WC | Plastic (Non-GSEP) |
| GSEP ABANDONMENT SUBTOTAL | | | 2,050' |
| NON-GSEP ABANDONMENT SUBTOTAL | | | 276' |
| ABANDONMENT TOTAL | | | 2,326' |

| | |
|---|---|
| Total Services | 9 |
| Service Replacements | 3 |
| Service Tie Overs | 6 |
| Meter Move Out | 2 |

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | FPO CREATED | 6-6-24 | RPB / XXX |

Revision/Status

EVERSOURCE ENERGY

MAIN ST - OPS, SPRINGFIELD, MA
PROJECT # 23EG117 / WORK ORDER # 11991964
COVER SHEET

SCALE: 1"=40' ON 22"X34" SHEET 01 OF 15

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RPB / 6/6/24 | XXX / - | MA-SPR-PIP-23-072-01 | 0 |

Attachment: Main St FPO (8183 : EVERSOURCE- Main Street)

Main St FPO.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\Data\SharedData\Merger_Temp\Common\Gas Engineering CT-MA\EGMA\Springfield\2025\Springfield, Main St - OPS, 23EG117\Drawings\
Jun 07, 2024 - 9:51am

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.

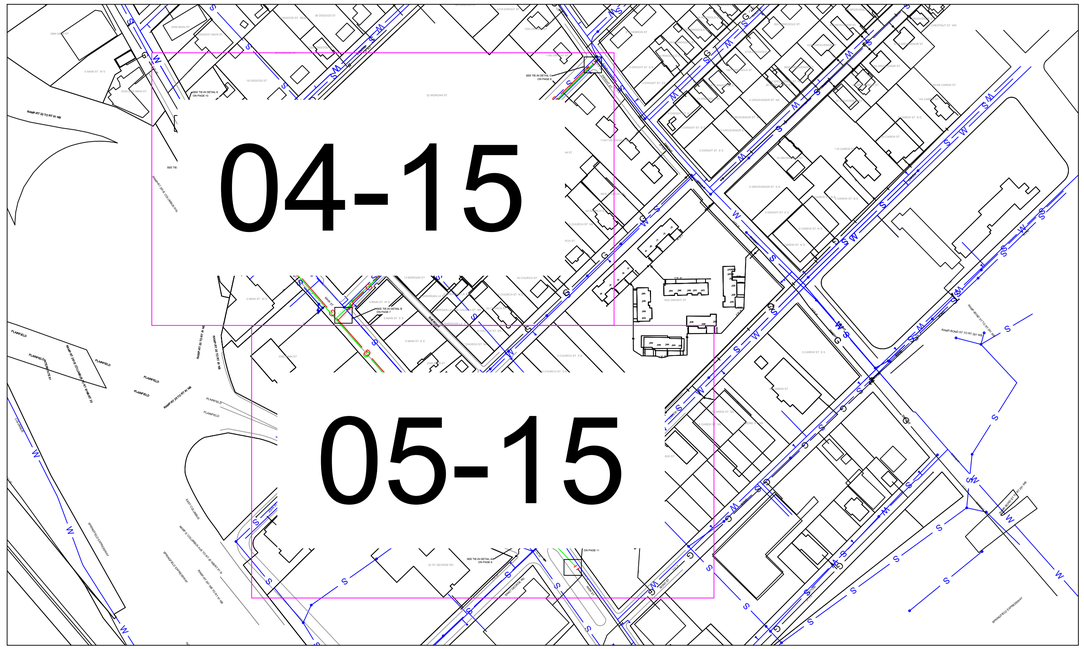
B. CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.

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.




OVERVIEW KEY MAP
NOT TO SCALE

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | FPO CREATED | 6-6-24 | RPB / XXX |

Revision/Status

EVERSOURCE ENERGY

MAIN ST - OPS, SPRINGFIELD, MA

PROJECT # 23EG117 / WORK ORDER # 11991964

NOTES

SCALE: 1"=40' ON 22"X34" SHEET 02 OF 15

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RPB 6/6/24 | XXX - | MA-SPR-PIP-23-072-02 | 0 |

Attachment: Main St FPO (8183 : EVERSOURCE- Main Street)

Main St FPO.dwg
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Jun 07, 2024 - 9:51am

## 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 |
| TW | Test Well |
| R | Regulator Station |
| R | Single Customer Regulator |
| M | Meter |
| MR | Meter with Regulator |
| | Test Point (Station) |
| T | Gas Service Tie-over |
| R | Gas Service Replacement |
| MMO | Meter Move Out |

### Swing Tie Symbology

| | |
|---|---|
| T | Telephone Manhole |
| D | Drain Manhole |
| E | Electric Manhole |
| | Catch Basis |
| S | Sewer Manhole |
| | Fire Hydrant |
| | Utility Pole |
| | Property Marker |
| T | Telephone Pedestal |
| C | Television Pedestal |
| U | Unknown Manhole |
| WB | Water Box |
| WG | Water Gate |
| E | Electric Pedestal |
| | Iron Pin |
| | Light Pole |
| | INSIDE METER |
| | OUTSIDE METER |

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | FPO CREATED | 6-6-24 | RPB / XXX |

Revision/Status

EVERSOURCE ENERGY

MAIN ST - OPS, SPRINGFIELD, MA

PROJECT # 23EG117 / WORK ORDER # 11991964

LEGEND

SCALE: 1"=40' ON 22"X34" SHEET 03 OF 15

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RPB 6/6/24 | XXX - | MA-SPR-PIP-23-072-03 | 0 |

Main St FPO.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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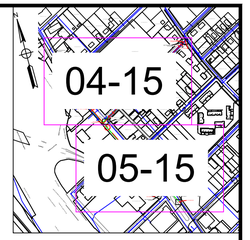
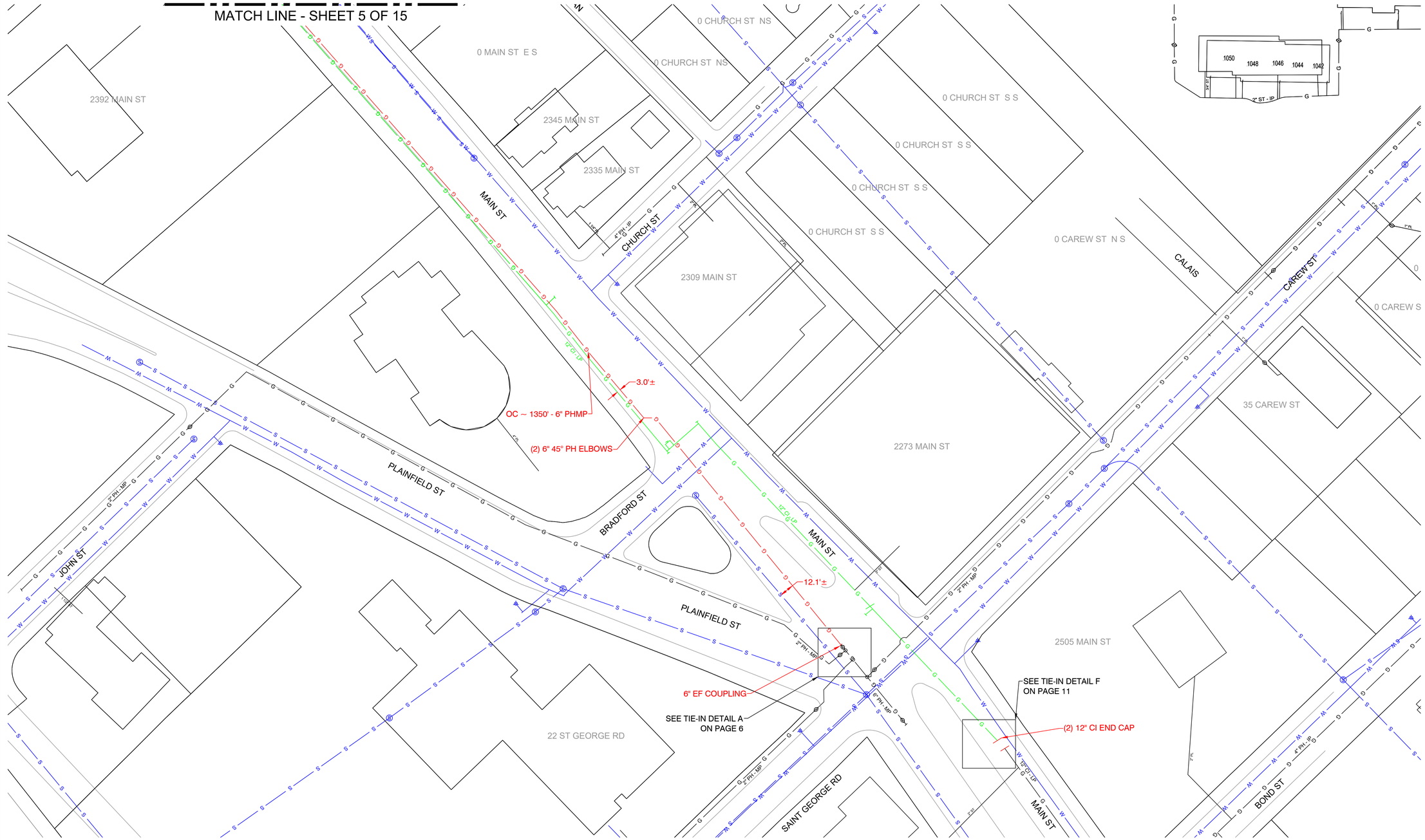
Jun 07, 2024 - 9:51am
Attachment: Main St FPO (8183 : EVERSOURCE- Main Street)

MATCH LINE - SHEET 5 OF 15




KEY MAP
SCALE: N.T.S.




| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| | | | |
| A | FPO CREATED | 6-6-24 | RPB / XXX |

Revision/Status

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS
PRIOR TO PIPE FABRICATION

EVERSOURCE
ENERGY

MAIN ST - OPS, SPRINGFIELD, MA
PROJECT # 23EG117 / WORK ORDER # 11991964
PROJECT LOCATION PLANS
SCALE: 1"=40' ON 22"X34" SHEET 04 OF 15

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RPB 6/6/24 | XXX - | MA-SPR-PIP-23-072-04 | A |

EGMA DRAWING TEMPLATE - 02-28-2023
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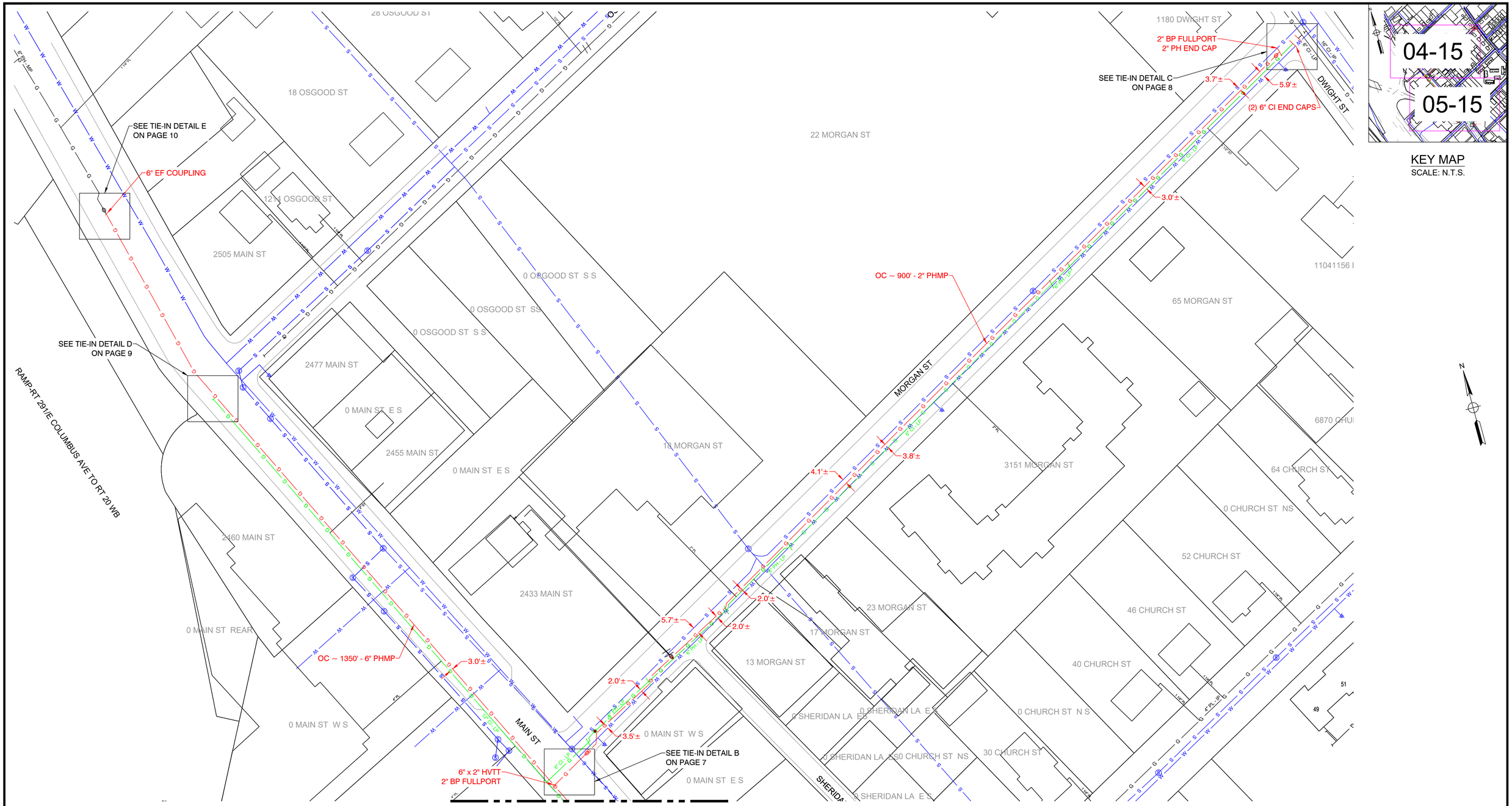
Attachment: Main St FPO (8183 : EVERSOURCE- Main Street)







KEY MAP
SCALE: N.T.S.

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | FPO CREATED | 6-6-24 | RPB / XXX |
| | Revision/Status | | |

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

MAIN ST - OPS, SPRINGFIELD, MA

PROJECT # 23EG117 / WORK ORDER # 11991964

PROJECT LOCATION PLANS

SCALE: 1"=40' ON 22"X34" SHEET 05 OF 15

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RPB 6/6/24 | XXX - | MA-SPR-PIP-23-072-05 | 0 |

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Jun 07, 2024 - 9:51am
Attachment: Main St FPO (8183 : EVERSOURCE- Main Street)

CITY OF SPRINGFIELD, MASSACHUSETTS

July 9, 2024

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 June 10, 2024, to install underground gas facilities within the section of the Memorial Square Neighborhood (Morgan Street and Main Street). Starting at the intersection of Dwight Street and Morgan Street running with two (2') inches of plastic pipe southwesterly direction approximately nine hundred (900') feet to the Main Street intersection and running with six (6') inches pipe approximately one thousand three hundred fifty (1,350') feet northerly direction on Main Street and southerly direction from Morgan Street to Carew Street, to retire low-pressure cast iron gas infrastructure and update the system to medium-pressure., all shown on a plan attached with a project name, Main Street which 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 July 9, 2024, at 3:30 P.M. at the corner of Main Street and Morgan 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.

Attachment: Report-I Main St. (8183 : EVERSOURCE- Main Street)

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 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 following 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.

John J. Fitzgerald )

_____ )

_____ ) BOARD OF PUBLIC WORKS

_____ )

Attachment: Report-I Main St. (8183 : EVERSOURCE- Main Street)

**City Council**
36 Court Street
Springfield, MA 01103

**SCHEDULED**

**PETITION (ID # 8528)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Gladys Oyola-Lopez
Sponsors:
DOC ID: 8528 A

# EVERSOURCE - S Branch Parkway

## ORDER FOR LOCATION OF UNDERGROUND CONDUIT

**WHEREAS** The Board of Public Works, to which was referred the S Branch Parkway of Everesource Electric Company dated December 10, 2024, to Install a new pole in S Branch Parkway.

**WHEREAS,** said petition S Branch Parkway was referred to the Board of Public Works on December 10, 2024; and

**WHEREAS,** On February 4, 2025, a Notice of a Public Hearing on S Branch Parkway to be held on February 18, 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 18, 2025, the Board of Public Works reported thereon that, after careful consideration of the petition S Branch Parkway to install (1) joint-owned pole. The pole will be placed approximately 100 feet from pole 1456/B78 and 22 feet from the center line of S Branch Parkway. The pole will be placed for the purpose of reliability of the system and to accommodate customer upgrades in the area.; shown on a plan attached entitled:

EVERSOURCE, S Branch Parkway

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 S Branch Parkway 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.** That 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 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.

CITY OF SPRINGFIELD, MASSACHUSETTS

Date: February 18, 2025

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

The Board of Public Works, to which was referred the petition S Branch Parkway of Eversource Electric Company dated December 10, 2024, to install (1) joint-owned pole, a guy, and anchor to be labeled 1456/B78M and placed approximately 100 feet from pole 1456/B78 and 22 feet from the center line of S Branch Parkway., all as substantially shown on a plan attached referred to S Branch Parkway, 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 18, 2025, at 3:30 P.M. in front of 1059 S Branch Pkwy ( parking lot) 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 accommodate customer upgrades in the 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 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: S Branch Parkway Report (8528 : EVERSOURCE - S Branch Parkway)

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

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

That 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.

That 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.

That 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.

John J. Fitzgerald )

Jack Deponde ) BOARD OF PUBLIC WORKS

_____ )

Attachment: S Branch Parkway Report (8528 : EVERSOURCE - S Branch Parkway)

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
- M EXISTING MANHOLE
- UG EXISTING CONDUIT
- UG PROPOSED CONDUIT
- HH PROPOSED HANDHOLE
- HH 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 ENERGY

PETITION MAP
1059 S BRANCH PARK WAY
SPRINGFIELD

Packet Pg. 145

11.b

**PURPOSE AND DESRIPTION:**

EVERSOURCE IS REQUESTING PERMISSION TO INSTALL (1) 45' JOINT OWNED POLE. THE NEW POLE WILL BE LABELED 1456/B78M. THE POLE WILL BE PLACED APPROXIMATELY 100FT FROM POLE 1456/B78 AND APPROXIMATELY 22FT FROM CENTERLINE OF ROADWAY. THIS POLE WILL BE USED FOR RELIABILITY OF THE SYSTEM AND TO ACCOMMODATE CUSTOMER UPGRADE

**Attachment: 19594149 SKETCH (8528 : EVERSOURCE - S Branch Parkway)**

REQUEST 208063

SCALE NTS | DRAWN BY E.PETERSON

# ORDER FOR JOINT OR IDENTICAL POLE LOCATIONS

By the City Council of the City of Springfield, Massachusetts.

Notice having been given and a public hearing held, as provided by law, IT IS HEREBY ORDERED:

that EVERSOURCE and VERIZON NEW ENGLAND INC be and they are hereby granted joint or identical locations for and permission to construct and maintain a line of poles and their respective wires and cables to be placed thereon, together with such sustaining and protecting fixtures as said Companies may deem necessary, in the public way hereinafter referred to as requested in petition of said Companies dated the 10TH day of December 2024.

All construction under this order shall be in accordance with the following conditions:

Poles should be of sound timber, and reasonably straight, and shall be set substantially at the points indicated upon the plan marked Drawing # **19594149** filed with and made a part of said petition. There may be attached to said poles by said EVERSOURCE not to exceed 20 wires and 2 cables, and by said VERIZON NEW ENGLAND INC not to exceed 40 wires and 4 cables, and all of said wires and cables shall be placed at a height of not less than 18 feet from the ground at highway crossings, and not less than 8 feet from the ground elsewhere.

The following is the public way along which the poles above referred to may be erected, and the number of poles which may be erected thereon under this order:

1059 S BRANCH PARKWAY

EVERSOURCE IS REQUESTING PERMISSION TO INSTALL (1) 45' JOINT OWNED POLE. THE NEW POLE WILL BE LABELED 1456/B78M. THE POLE WILL BE PLACED APPROXIMATELY 100' FROM POLE 1456/B78 AND APPROXIMATELY 22' FROM CENTERLINE OF ROADWAY. THIS POLE WILL BE USED FOR RELIABILITY OF THE SYSTEM AND TO ACCOMMODATE CUSTOMER UPGRADES IN THE AREA.

Drawing # 19594149

Attachment: ORD # 19594149 S BRANCH PARKWAY SPFLD (8528 : EVERSOURCE - S Branch Parkway)

Also, that permission be and thereby is granted to each of said companies 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.

I hereby certify that the foregoing order was adopted at a meeting of the City Council of the City of Springfield, Massachusetts held on the _____ day of _____, 2024.

_____
City Clerk

We hereby certify that on _____ 2024 at _____ o'clock __M, at _____ a public hearing was held on the petition of EVERSOURCE and VERIZON NEW ENGLAND INC for permission to construct the line of pole(s), wires, cables, fixtures and connections described in the order herewith recorded, and that I mailed at least seven days before said hearing a written notice of the time and place of said hearing to each of the owners of real estate (as determined by the last preceding assessment for taxation) along the way upon which the Companies are permitted to construct the line of poles, wires, cables, fixtures and connections under said order. And that thereupon said order was duly adopted.

_____
City Clerk

**CERTIFICATE**

I hereby certify that the foregoing is a true copy of a joint location order and certificate of hearing with notice adopted by the City Council of the City of Springfield, Massachusetts, on the _____ day of _____, 2024 and recorded with the records of location orders of said City, Book _____, Page _____. This certified copy is

Attachment: ORD # 19594149 S BRANCH PARKWAY SPFLD (8528 : EVERSOURCE - S Branch Parkway)

made under the provisions of Chapter 166 of General laws and any additions thereto or amendments thereof.

Attest:

_____

City Clerk

Attachment: ORD # 19594149 S BRANCH PARKWAY SPFLD (8528 : EVERSOURCE - S Branch Parkway)

# PETITION FOR JOINT OR IDENTICAL POLE LOCATIONS

To the City Council of the City of Springfield, Massachusetts

EVERSOURCE and VERIZON NEW ENGLAND INC requests permission to locate a line of poles, wires, cables and fixtures, including the necessary sustaining and protecting fixtures along and across the following public way:

1059 S BRANCH PARKWAY

EVERSOURCE IS REQUESTING PERMISSION TO INSTALL (1) 45' JOINT OWNED POLE. THE NEW POLE WILL BE LABELED 1456/B78M. THE POLE WILL BE PLACED APPROXIMATELY 100' FROM POLE 1456/B78 AND APPROXIMATELY 22' FROM CENTERLINE OF ROADWAY. THIS POLE WILL BE USED FOR RELIABILITY OF THE SYSTEM AND TO ACCOMMODATE CUSTOMER UPGRADES IN THE AREA.

Drawing # 19594149

Wherefore it prays that after due notice and hearing as provided by law, let it be granted a location for and permission to construct and maintain a line of poles, wires and cables, together with such sustaining and protecting fixtures as they may find necessary, said poles to be erected substantially in accordance with the plan filed herewith and made a part hereof marked 19594149.

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 each of said petitioners may desire for distributing purposes.

Your petitioners agree to reserve space for one cross arm at a suitable point on each of said poles for the fire and police telephone signal wires belonging to the municipality and used by it exclusively for municipal purposes.

EVERSOURCE
Eric Peterson

By _____
Eric Peterson, Technician
Eric.Peterson@eversource.com

Attachment: Signed Petition - 19594149 S BRANCH PARKWAY SPFLD (8528 : EVERSOURCE - S Branch Parkway)

VERIZON NEW ENGLAND INC

BY _____*Albert E. Bessette*_____
Albert Bessette, Manager Right-of-Way

Dated this 10th day of December 2024.

Attachment: Signed Petition - 19594149 S BRANCH PARKWAY SPFLD (8528 : EVERSOURCE - S Branch Parkway)

**City Council**
36 Court Street
Springfield, MA 01103

**SCHEDULED**

**PETITION (ID # 8530)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8530 B

# EVERSOURCE - Boston Road

## 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 Boston Road in Springfield to install medium-pressure and retire low-pressure cast iron gas infrastructure.

**WHEREAS,** said petition Boston Road was referred to the Board of Public Works on February 3, 2025; and

**WHEREAS,** On February 13, 2025, a Notice of a Public Hearing on Commonwealth Ave. to be held on February 27, 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 27, 2025, the Board of Public Works reported thereon that, after careful consideration of the petition to install underground gas facilities on Boston Road. Starting with six (6") inches of pipe on Harvey Street., running an easterly direction one thousand four hundred eighteen (1,418) feet, to Methuen Street; all substantially shown on a plan attached with the project name:

Boston Road

Consisting of twelve (12) 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 Boston Road 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.

CITY OF SPRINGFIELD, MASSACHUSETTS

February 27, 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 February 3, 2025, to install underground gas facilities on Boston Road. Starting with six (6") inches of pipe on Harvey Street., running an easterly direction one thousand four hundred eighteen (1,418) feet, to Methuen 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 27, 2025, at 3:45 P.M. at the corner of Boston Road and Glenwood Street 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 Boston Rd (8530 : EVERSOURCE - Boston Road)

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.

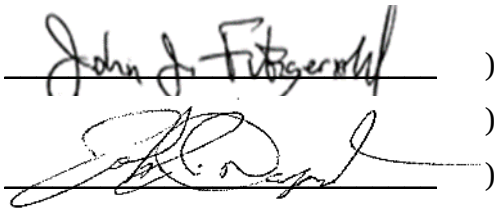
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

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

)

)

Attachment: Report City Council Boston Rd (8530 : EVERSOURCE - Boston Road)

## TABLE OF CONTENTS


| SHEET # | TITLE |
|---|---|
| 01 OF 12 | COVER SHEET |
| 02 OF 12 | NOTES |
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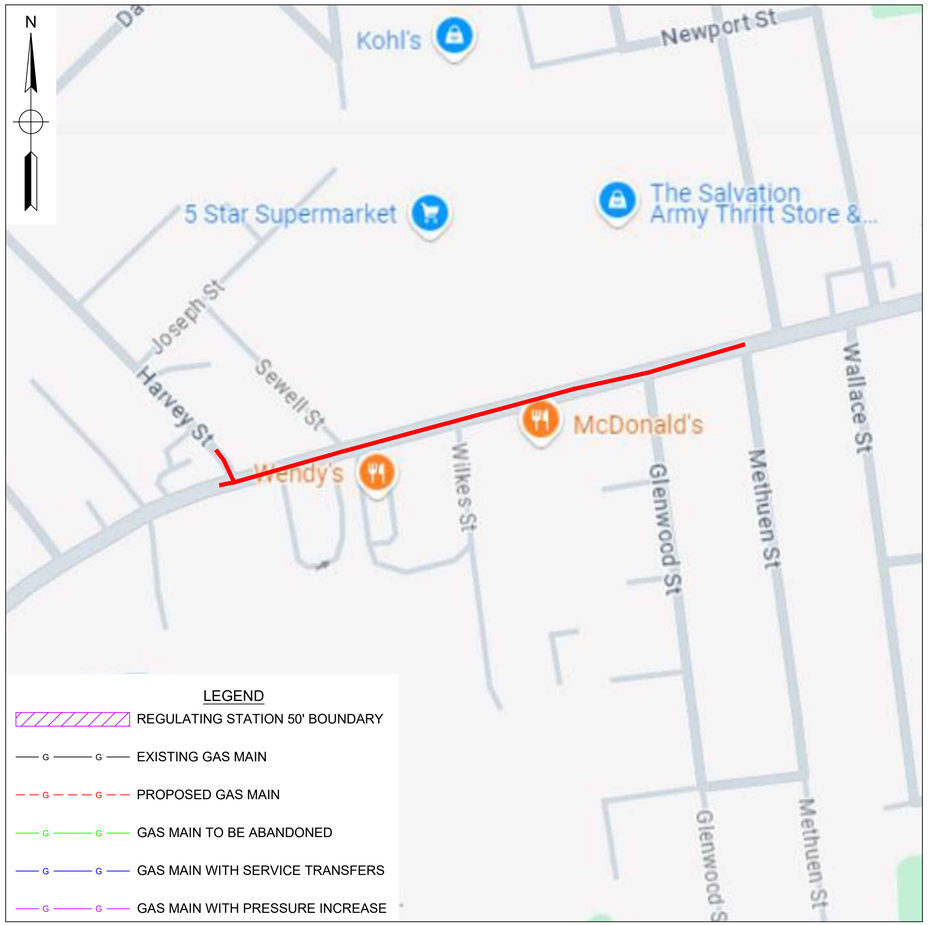
| 04 OF 12 | PROJECT LOCATION PLAN |
| 05 OF 12 | PROJECT LOCATION PLAN |
| 06 OF 12 | MA PREPARATORY AND FINAL TIE-IN DETAILS |
| 07 OF 12 | MA PREPARATORY AND FINAL TIE-IN DETAILS |
| 08 OF 12 | MA PREPARATORY AND FINAL TIE-IN DETAILS |
| 09 OF 12 | MA CORROSION DETAILS (1 OF 3) |
| 10 OF 12 | MA CORROSION DETAILS (2 OF 3) |
| 11 OF 12 | MA CORROSION DETAILS (3 OF 3) |
| 12 OF 12 | BLANK GRIDDED SHEET |


EVERSOURCE ENERGY




WORK SCOPE

## PROJECT SUMMARY TABLE

| PROPOSED INSTALLATION | | | PROPOSED ABANDONMENT | | |
|---|---|---|---|---|---|
| LENGTH (FT) | SIZE (IN) | TYPE | LENGTH (FT) | SIZE (IN) | TYPE |
| 1,418' | 6" | PHMP | - | - | - |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | - | TOTAL GSEP ABANDONMENT (FEET) | |
| 1,418' | TOTAL INSTALLATION (FEET) | | - | TOTAL ABANDONMENT (FEET) | |

| PROPOSED GAS SERVICES | | | | |
|---|---|---|---|---|
| | REPLACEMENTS | TIE OVERS | TOTAL SERVICES | METER OUTS |
| ESTIMATED GAS SERVICES | 5 | 10 | 15 | |

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| 0 | DWG CREATED | 01/21/25 | PJV / MJN |

Revision/Status

EVERSOURCE ENERGY

BOSTON RD - RELIABILITY, SPRINGFIELD, MA
PROJECT # 25EG112R / WORK ORDER # 20008451
COVER SHEET

SCALE: 1"=30' ON 22"X34" SHEET 01 OF 12

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| PJV / 01/21/25 | MJN / XX/XX/XXX | MA-SPR-PIP-25-400-01 | # |

BOSTON RD - RELIABILITY, SPRINGFIELD, MA
PROJECT #25EG112R
WORK ORDER #20008451

Boston Rd - Reliability - Pro Drawing.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Boston Rd - Reliability, 25EG112R\Drawings\
Jan 31, 2025 - 2:49pm
Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)

## 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.

## 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 .

**BOSTON RD - 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 | 17 | 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 |
| 370 | 513679 | CABLE, INSULATED, MDP, #12 AWG, 7 STR, YELLOW, POLYETHYLENE-30, SOFT DRAWN CU, 500 FT/RL, FOR USED AS PIPE LOCATOR | 3 | FT |
| 10 | 542539 | CAP,PIPE, 6 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 9 | EA |
| 23 | 545338 | ELBOW,PIPE, 45 DEG, 4 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 6 | EA |
| 21 | 545342 | ELBOW,PIPE, 90 DEG, 6 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 4 | EA |
| 6 | 554009 | PIPE, 6 IN IPS X 0.602 IN THK WALL SDR 11, 6.625 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100 | 1600 | FT |
| 31 | 560680 | TEE,PIPE, 6 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 1 | EA |
| 36 | 562078 | VALVE,BALL, 6 IN IPS, POLYETHYLENE, SDR 11, P100, BUTT WELD, W/ FULL PORT OPENING, BLACK FINISH | 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, | 3 | RL |
| 1641 | 604756 | TEE,PIPE, NON-BLOWING, 6 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 2 | EA |
| 90 | 610757 | FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823 | 2 | EA |
| 98 | 610764 | FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100 | 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 | 4 | EA |
| 1656 | 620089 | FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC | 2 | EA |
| 1653 | 620808 | FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924 | 2 | EA |




OVERVIEW KEY MAP
NOT TO SCALE

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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| | | | |
| 0 | DWG CREATED | 01/21/25 | PJV / MJN |

Revision/Status

EVERSOURCE ENERGY

BOSTON RD - RELIABILITY, SPRINGFIELD, MA

PROJECT # 25EG112R / WORK ORDER # 20008451

NOTES

SCALE:1"=30' ON 22"X34" SHEET 02 OF 12

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| PJV 01/21/25 | MJN XX/XX/XXX | MA-SPR-PIP-25-400-02 | # |

Boston Rd - Reliability - Pro Drawing.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Boston Rd - Reliability, 25EG112R\Drawings\
Jan 31, 2025 - 2:49pm
Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)

## DRAWING LEGEND

### Gas Main Symbology

REGULATING STATION 50' BOUNDARY

EXISTING GAS MAIN — G — G —

PROPOSED GAS MAIN — G — G —

GAS MAIN TO BE ABANDONED — G — G —

GAS MAIN WITH SERVICE TRANSFERS — G — G —

GAS MAIN WITH PRESSURE INCREASE — G — G —

RIGHT-OF-WAY

ELECTRIC — E — E —

WATER LINE — W — W —

SEWER LINE — S — S —

TELEPHONE — T — T —

DRAIN LINE — D — D —

FENCE LINE — x — x — x — x — x —

### 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 |
| R | Single Customer Regulator |
| M | Meter |
| MR | Meter with Regulator |
| | Test Point (Station) |
| T | Gas Service Tie-over |
| R | Gas Service Replacement |
| MMO | Meter Move Out |

### Swing Tie Symbology

| | |
|---|---|
| T | Telephone Manhole |
| D | Drain Manhole |
| E | Electric Manhole |
| | Catch Basis |
| S | Sewer Manhole |
| | Fire Hydrant |
| | Utility Pole |
| | Property Marker |
| T | Telephone Pedestal |
| C | Television Pedestal |
| U | Unknown Manhole |
| | Water Box |
| | Water Gate |
| E | Electric Pedestal |
| | Iron Pin |
| | Light Pole |
| | INSIDE METER |
| | OUTSIDE METER |

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| 0 | DWG CREATED | 01/21/25 | PJV / MJN |

Revision/Status

EVERSOURCE ENERGY

BOSTON RD - RELIABILITY, SPRINGFIELD, MA

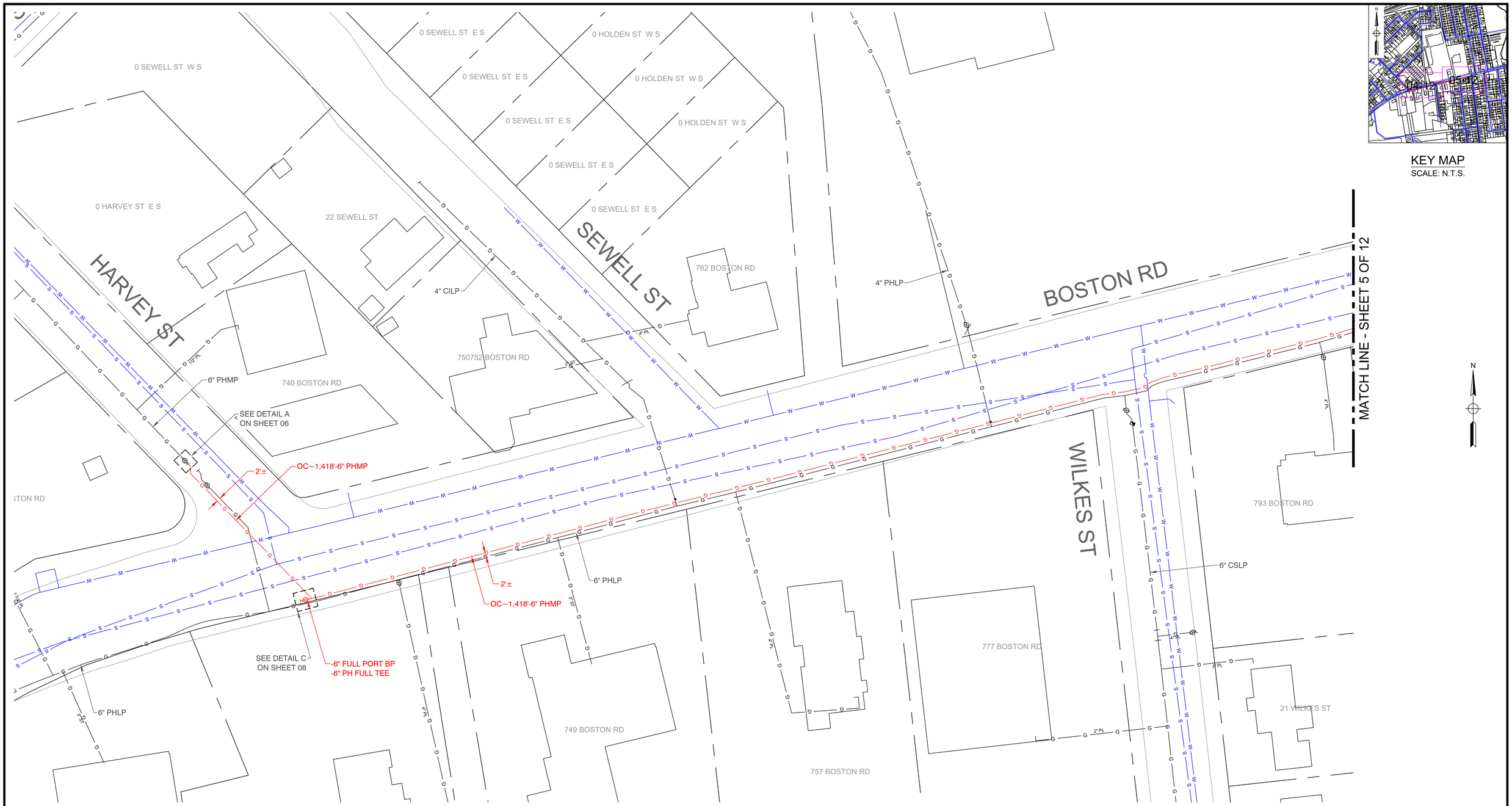
PROJECT # 25EG112R / WORK ORDER # 20008451

LEGEND

SCALE: 1"=30' ON 22"X34" SHEET 03 OF 12

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| PJV 01/21/25 | MJN XX/XX/XXX | MA-SPR-PIP-25-400-03 | # |

Boston Rd - Reliability - Pro Drawing.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Boston Rd - Reliability, 25EG112R\Drawings\
Jan 31, 2025 - 2:49pm
Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)







KEY MAP
SCALE: N.T.S.

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| | | | |
| 0 | DWG CREATED | 01/21/25 | PJV / MJN |

Revision/Status

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

BOSTON RD - RELIABILITY, SPRINGFIELD, MA

PROJECT # 25EG112R / WORK ORDER # 20008451

PROJECT LOCATION PLANS

SCALE: 1"=30' ON 22"X34" SHEET 04 OF 12

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| PJV 01/21/25 | MJN XX/XX/XXX | MA-SPR-PIP-25-400-04 | 0 |

Boston Rd - Reliability - Pro Drawing.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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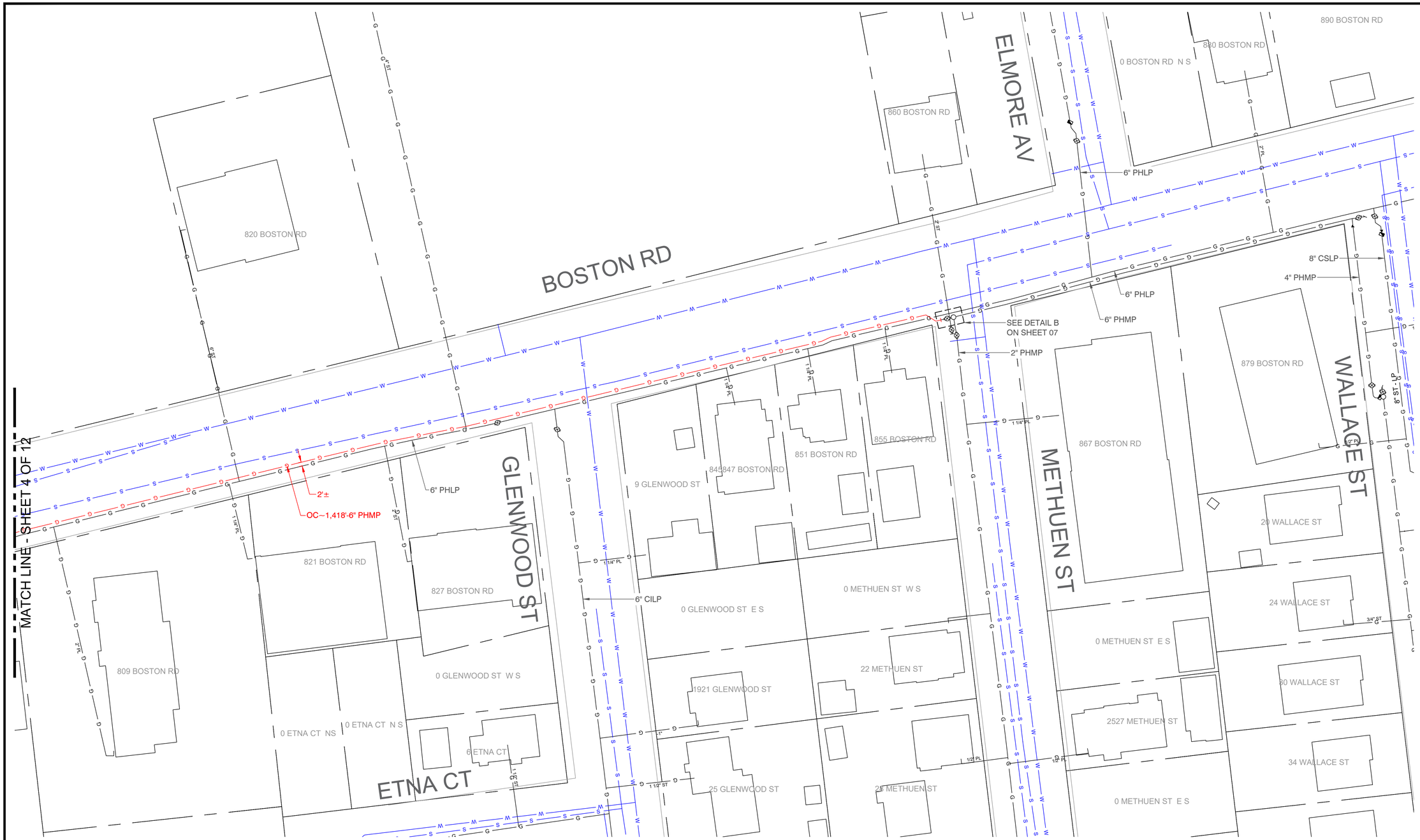
Jan 31, 2025 - 2:50pm
Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)



KEY MAP
SCALE: N.T.S.

N

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| 0 | DWG CREATED | 01/21/25 | PJV / MJN |

Revision/Status

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

**EVERSOURCE ENERGY**

BOSTON RD - RELIABILITY, SPRINGFIELD, MA

PROJECT # 25EG112R / WORK ORDER # 20008451

PROJECT LOCATION PLANS

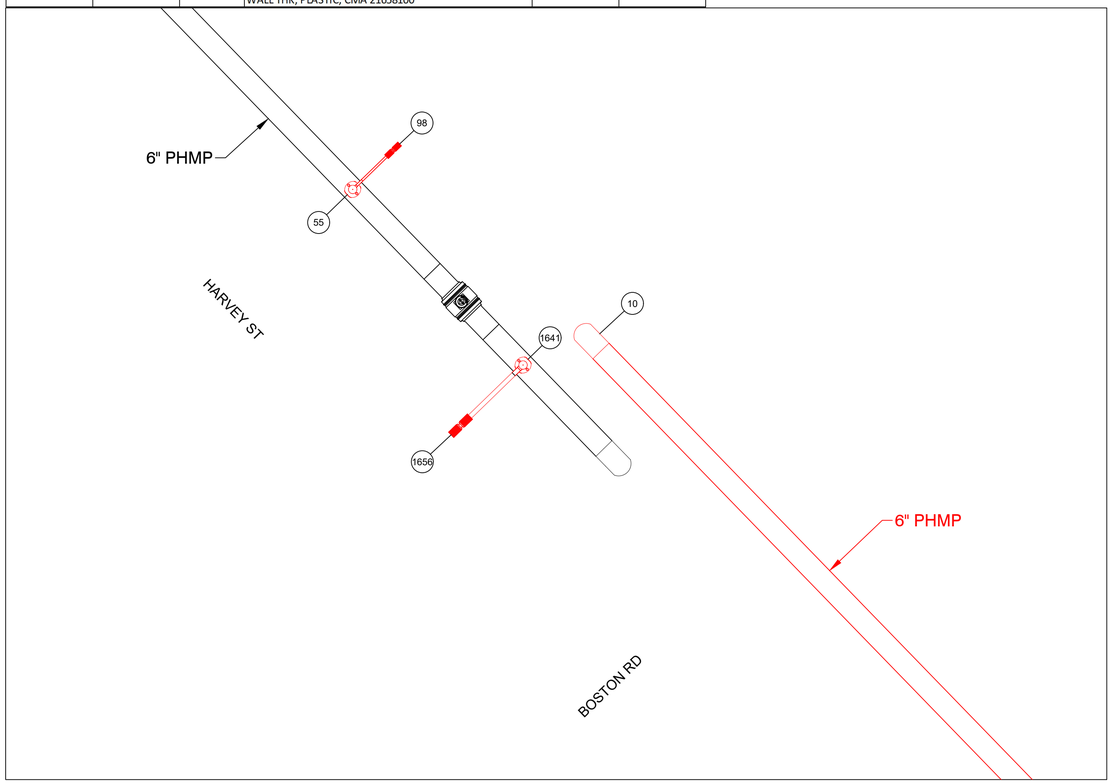
SCALE: 1"=30' ON 22"X34" SHEET 05 OF 12

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| PJV 01/21/25 | MJN XX/XX/XXX | MA-SPR-PIP-25-400-05 | # |



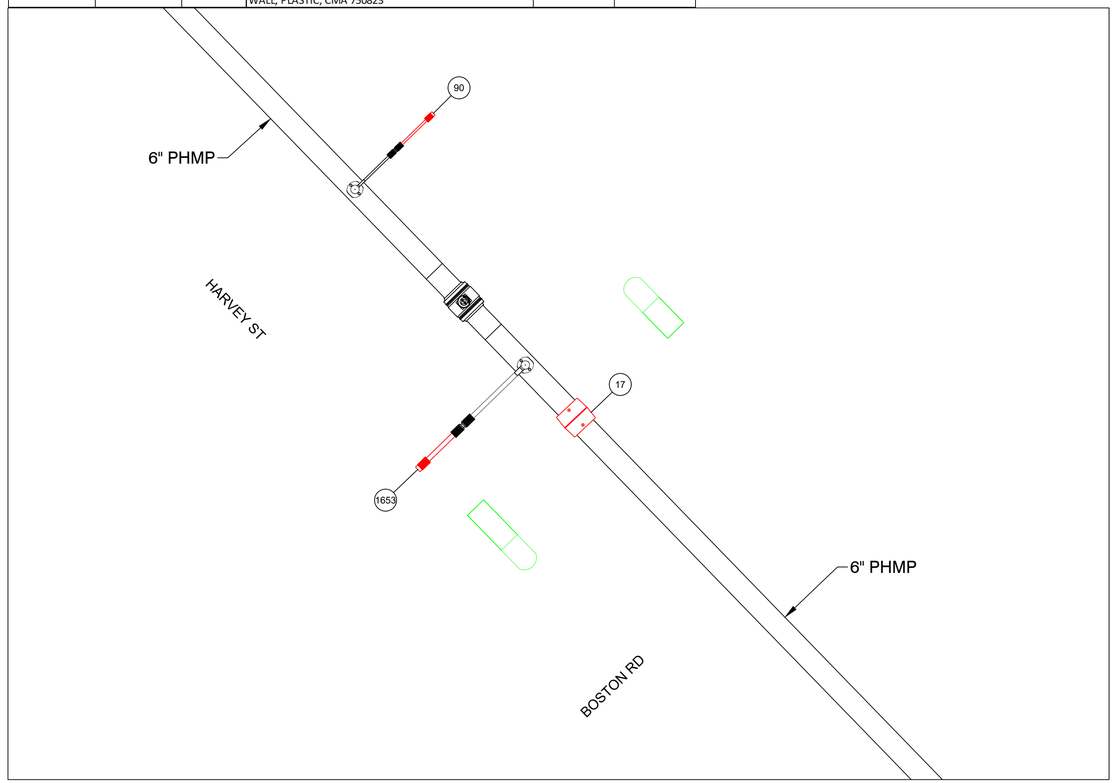
Boston Rd - Reliability - Pro Drawing.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Boston Rd - Reliability, 25EG112R\Drawings\
Jan 31, 2025 - 2:50pm
Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)

| BOSTON RD - RELIABILITY, SPRINGFIELD | | | | | DETAIL "A" PREPARATORY |
|---|---|---|---|---|---|
| **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 | 1 | EA |
| 1641 | CENTPLCO | 604756 | TEE,PIPE, NON-BLOWING, 6 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 1 | EA |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC | 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 |
| 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

| BOSTON RD - RELIABILITY, SPRINGFIELD | | | | | DETAIL "A" 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 |
| 17 | 63051039 | 500856 | COUPLING, 6 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 A
NOT TO SCALE

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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| 0 | DWG CREATED | 01/21/25 | PJV / MJN |

Revision/Status

EVERSOURCE ENERGY

BOSTON RD - RELIABILITY, SPRINGFIELD, MA

PROJECT # 25EG112R / WORK ORDER # 20008451

PREPARATORY AND FINAL TIE-IN DETAILS

SCALE:1"=30' ON 22"X34" SHEET 06 OF 12

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| PJV 01/21/25 | MJN XX/XX/XXX | MA-SPR-PIP-25-400-06 | # |

Boston Rd - Reliability - Pro Drawing.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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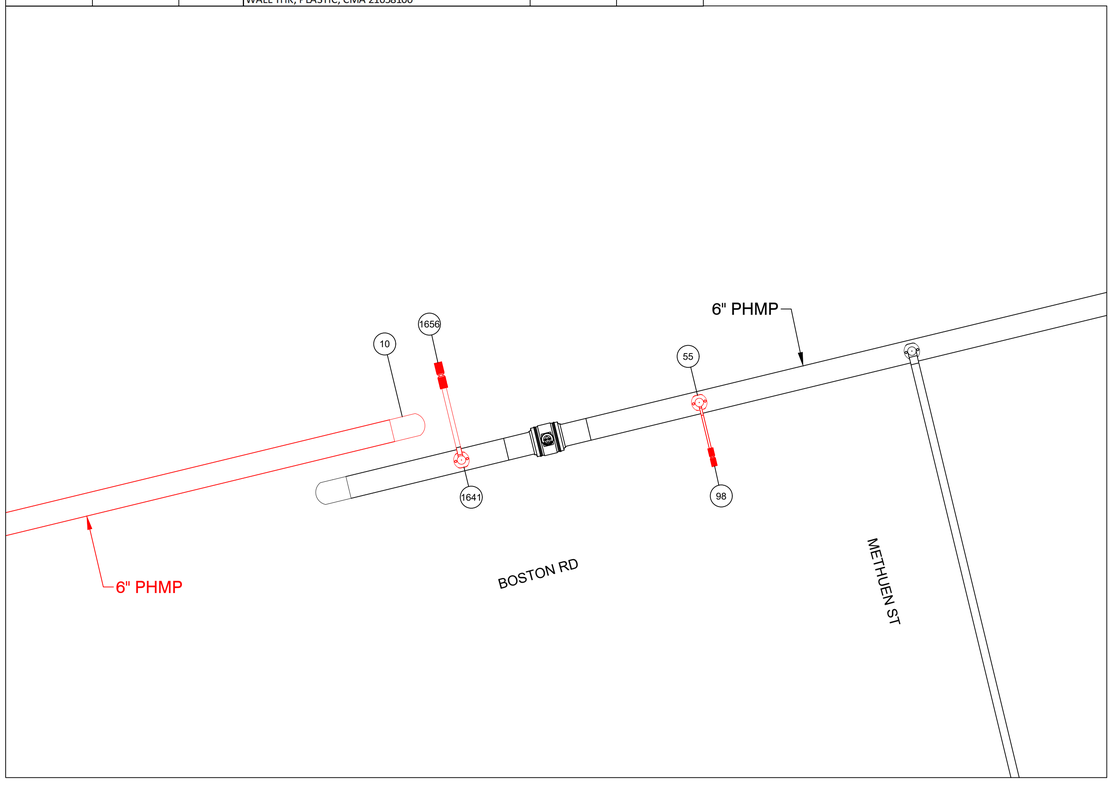
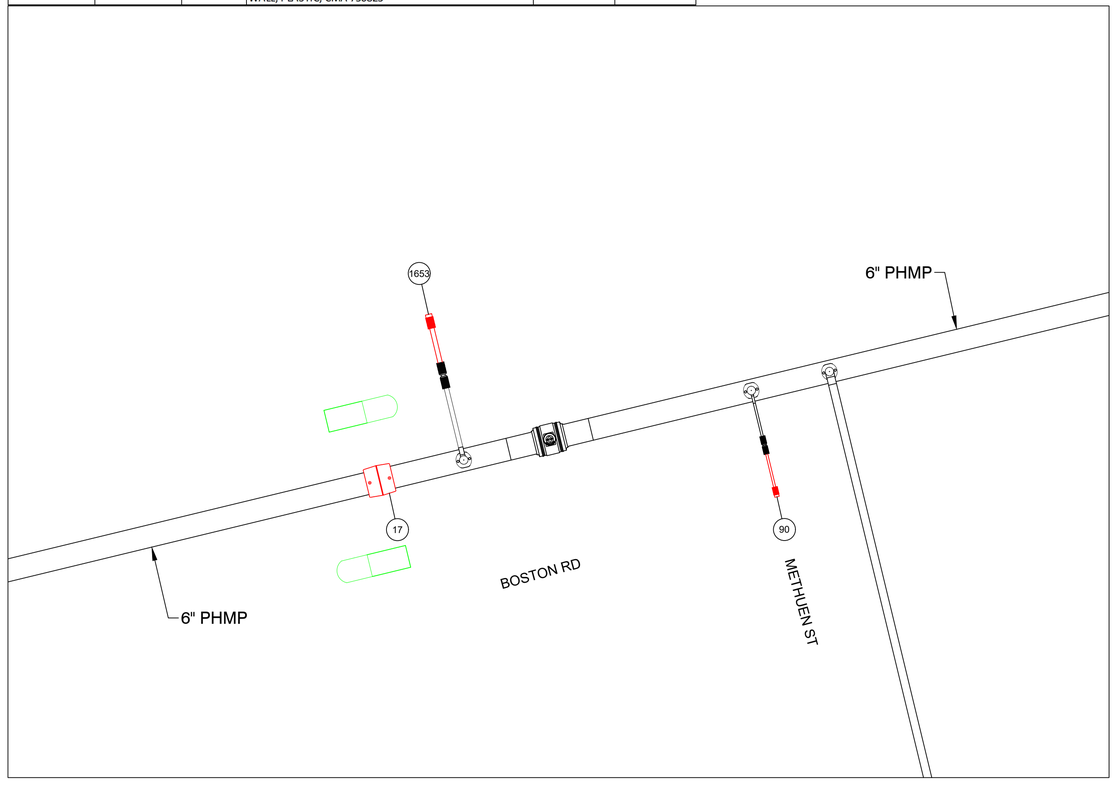
Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)

| BOSTON RD - RELIABILITY, SPRINGFIELD | | | | DETAIL "B" PREPARATORY | |
|---|---|---|---|---|---|
| **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 | 1 | EA |
| 1641 | CENTPLCO | 604756 | TEE,PIPE, NON-BLOWING, 6 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 1 | EA |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC | 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 |
| 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 B
NOT TO SCALE

| BOSTON RD - RELIABILITY, 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 |
| 17 | 63051039 | 500856 | COUPLING, 6 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 B
NOT TO SCALE

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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| 0 | DWG CREATED | 01/21/25 | PJV / MJN |

Revision/Status

EVERSOURCE ENERGY

BOSTON RD - RELIABILITY, SPRINGFIELD, MA

PROJECT # 25EG112R / WORK ORDER # 20008451

PREPARATORY AND FINAL TIE-IN DETAILS

SCALE:1"=30' ON 22"X34" SHEET 07 OF 12

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| PJV 01/21/25 | MJN XX/XX/XXX | MA-SPR-PIP-25-400-07 | # |

EGMA DRAWING TEMPLATE - 02-28-2023
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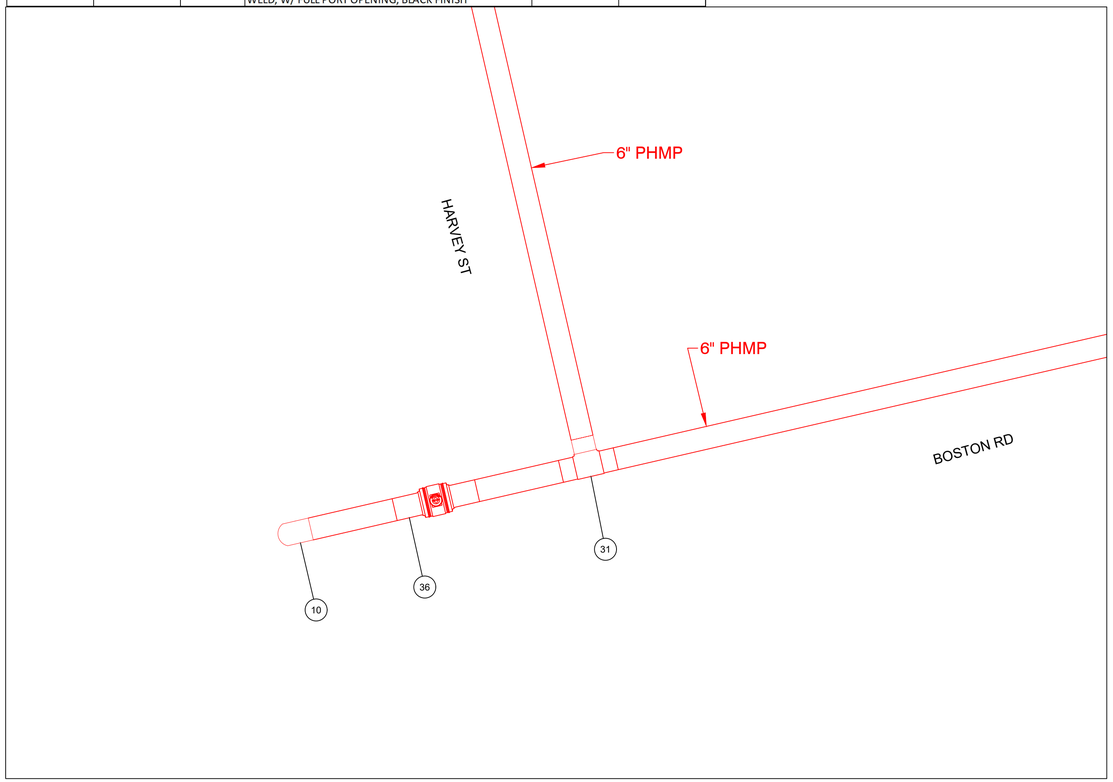
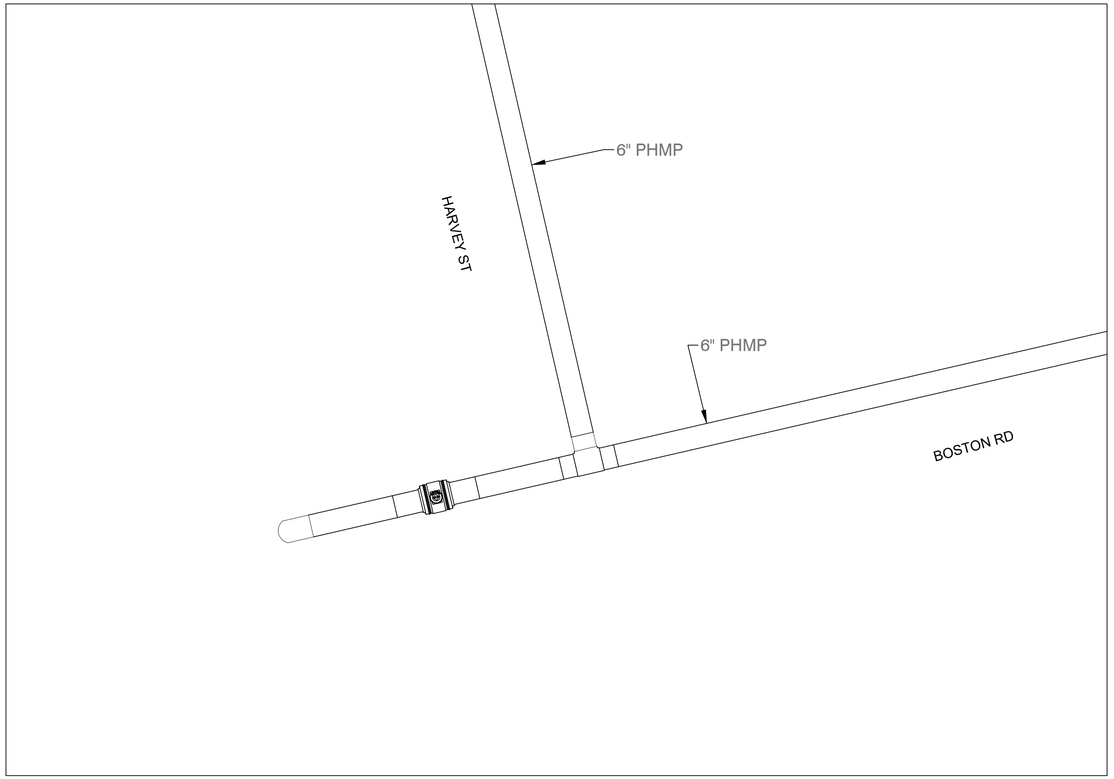
Boston Rd - Reliability - Pro Drawing.dwg
Jan 31, 2025 - 2:50pm
Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)

| BOSTON RD - RELIABILITY, SPRINGFIELD | | | | DETAIL "C" PREPARATORY | |
|---|---|---|---|---|---|
| **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 | 1 | EA |
| 31 | 63078458 | 560680 | TEE,PIPE, 6 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 1 | EA |
| 36 | 14281745 | 562078 | VALVE,BALL, 6 IN IPS, POLYETHYLENE, SDR 11, P100, BUTT WELD, W/ FULL PORT OPENING, BLACK FINISH | 1 | EA |




PREPARATORY TIE-IN DETAIL C
NOT TO SCALE




FINAL TIE-IN DETAIL C
NOT TO SCALE

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| 0 | DWG CREATED | 01/21/25 | PJV / MJN |

Revision/Status

EVERSOURCE ENERGY

BOSTON RD - RELIABILITY, SPRINGFIELD, MA
PROJECT # 25EG112R / WORK ORDER # 20008451
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=30' ON 22"X34" SHEET 08 OF 12

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| PJV 01/21/25 | MJN XX/XX/XXX | MA-SPR-PIP-25-400-08 | # |

EGMA DRAWING TEMPLATE - 02-28-2023
Boston Rd - Reliability - Pro Drawing.dwg
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Jan 31, 2025 - 2:50pm
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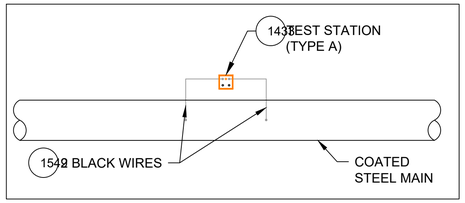
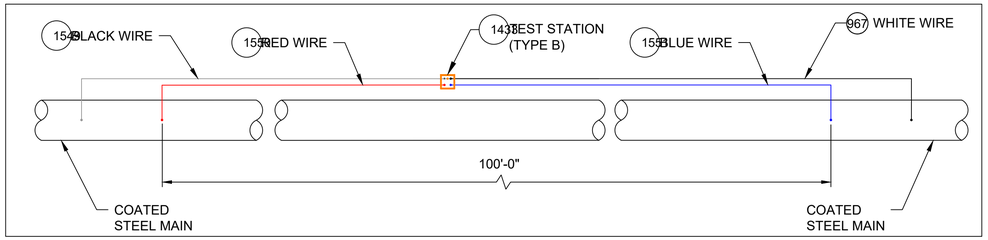



TYPE A TEST STATION

DETAIL CP1

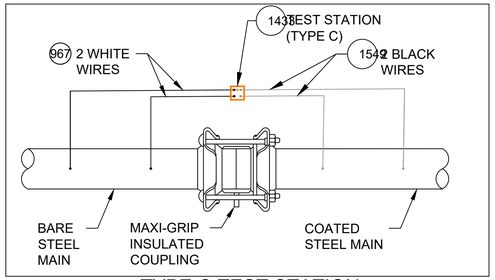
SCALE: 1/2" = 1'-0"




TYPE B TEST STATION

DETAIL CP2

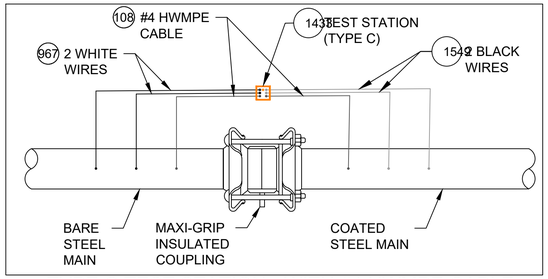
SCALE: 1/2" = 1'-0"




TYPE C TEST STATION

DETAIL CP3

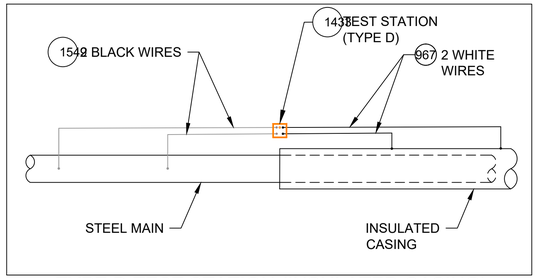
SCALE: 1/2" = 1'-0"




TYPE C TEST STATION - WITH #4 HWMPE CABLE

DETAIL CP4

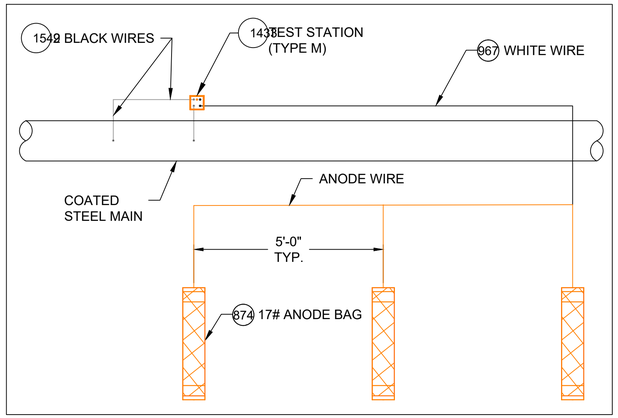
SCALE: 1/2" = 1'-0"




TYPE D TEST STATION (INSULATED CASING)

DETAIL CP5

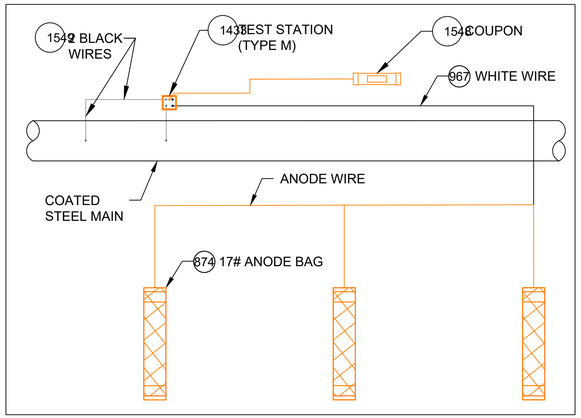
SCALE: 1/2" = 1'-0"




TYPE M TEST STATION (WITH ANODES)

DETAIL CP6

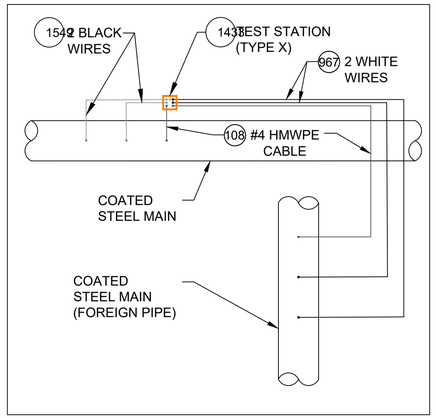
SCALE: 1/2" = 1'-0"




TYPE M TEST STATION (WITH COUPON AND ANODES)

DETAIL CP7

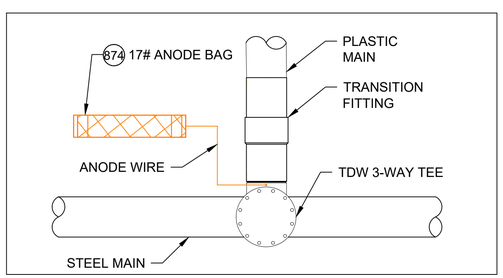
SCALE: 1/2" = 1'-0"




TYPE X TEST STATION

DETAIL CP8

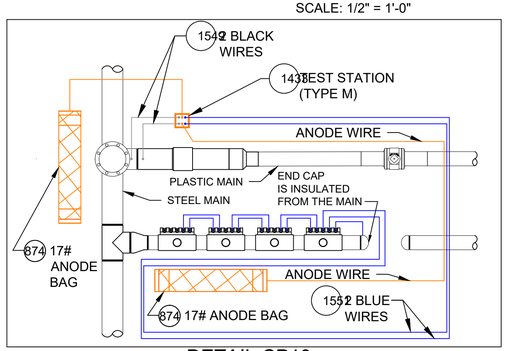
SCALE: 1/2" = 1'-0"




TDW 3-WAY TEE WITH ANODE

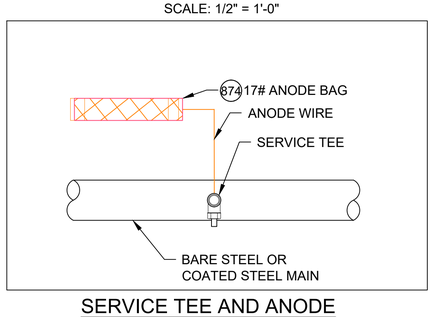
DETAIL CP9

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, 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, 0F 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:

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.

| No. | Description | Date | Dw/Ck/Ap |
|---|---|---|---|
| 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 |

Revision/Status

EVERSOURCE ENERGY

STANDARD CS-500 CORROSION DETAILS

STREET ADDRESS, TOWN/CITY

DETAILS, NOTES AND BILL OF MATERIALS

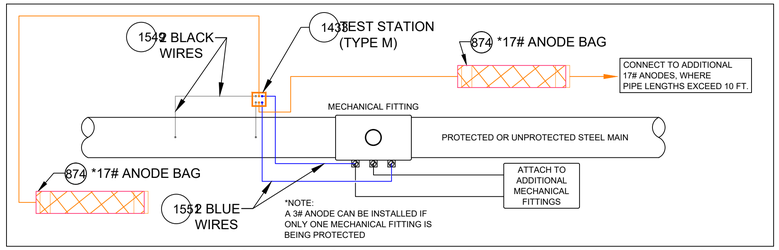
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

SCALE: 1/2" = 1'-0" SHEET 09 OF 12

| Drawn by / Date | Checked by / Date | Sheet Number | Rev. No. |
|---|---|---|---|
| WBH 10/05/20 | KJK 10/19/20 | MA COR STD-001-01 | 6 |
| Approved by / Date MJL 10/19/20 | Boston Rd - Reliability - Pro Drawing.dwg | | |

Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)

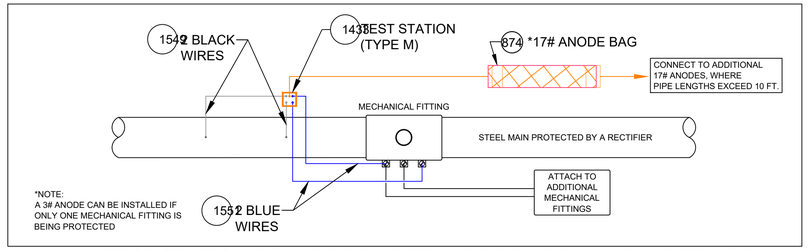
\\nu.com\data\SharedData\GasProjectEngineering\EGMA\Boston Rd - Reliability, 25EG112R\Drawings\Boston Rd - Reliability - Pro Drawing.dwg
Jan 31, 2025 - 2:50pm




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

DETAIL CP12

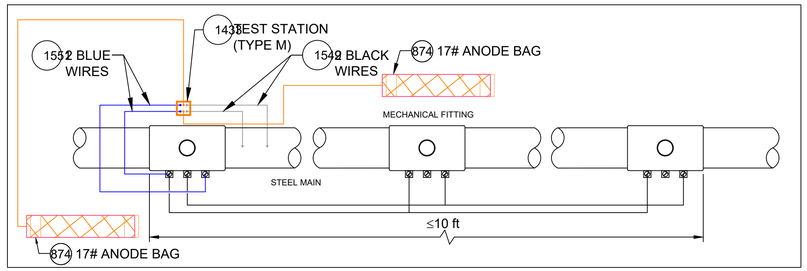
SCALE: 1/2" = 1'-0"




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

DETAIL CP13

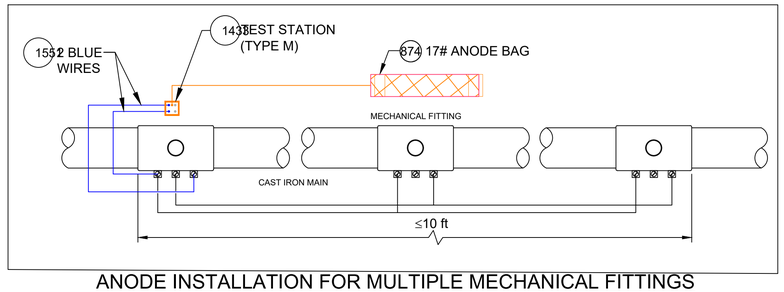
SCALE: 1/2" = 1'-0"




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

DETAIL CP14

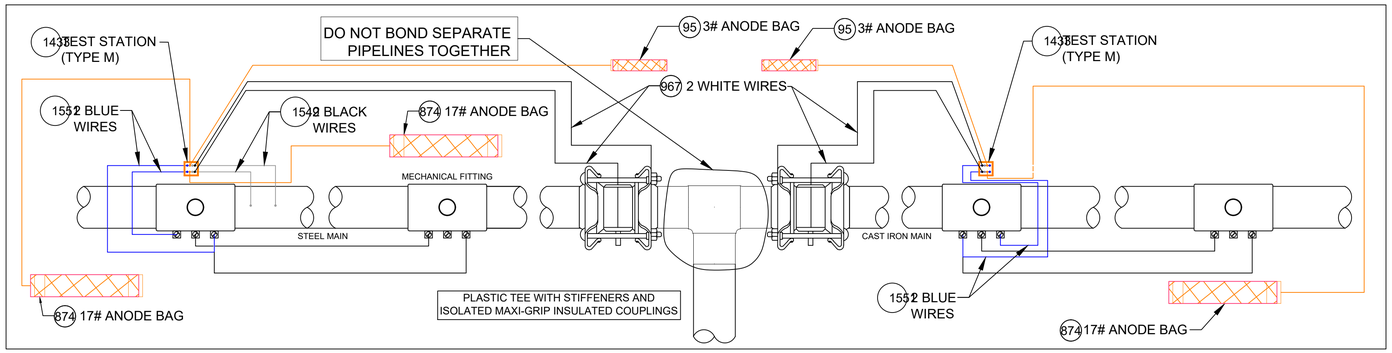
SCALE: 1/2" = 1'-0"




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

DETAIL CP15

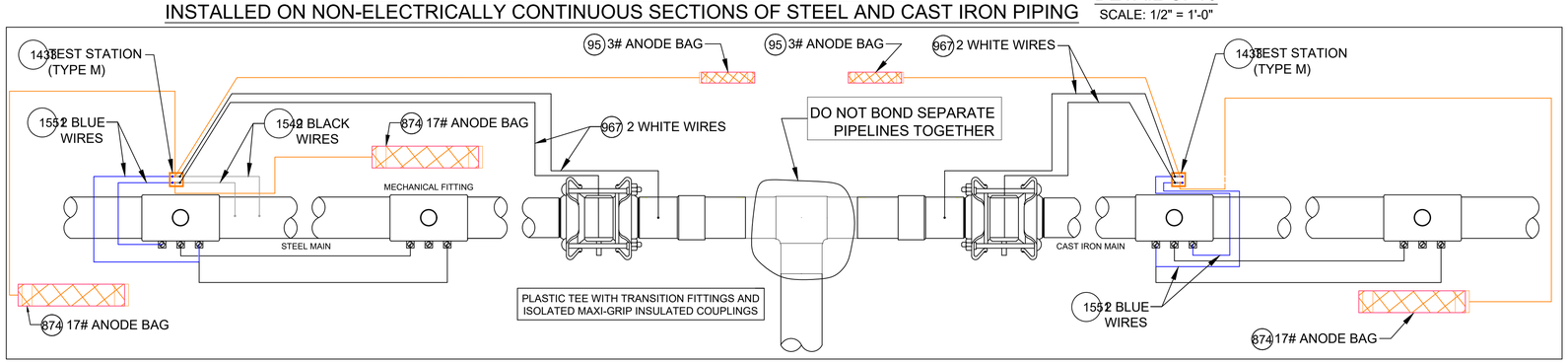
SCALE: 1/2" = 1'-0"




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, 0F 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:

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: 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.

| No. | Description | Date | Dw/Ck/Ap |
|---|---|---|---|
| 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 |

Revision/Status

EVERSOURCE ENERGY

STANDARD CS-500 CORROSION DETAILS

STREET ADDRESS, TOWN/CITY

DETAILS, NOTES AND BILL OF MATERIALS

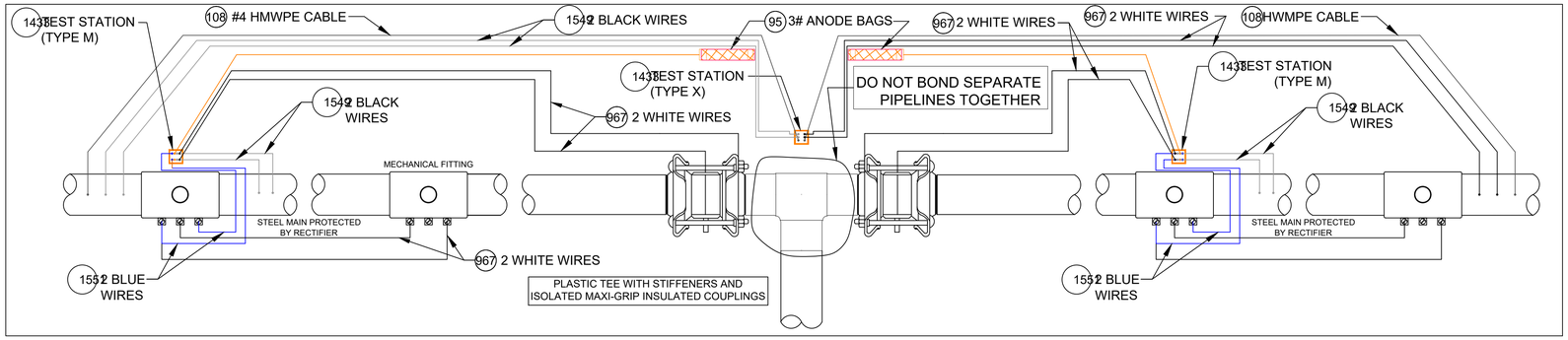
SCALE: 1/2" = 1'-0" SHEET 10 OF 12

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| Drawn by / Date | Checked by / Date | Sheet Number | Rev. No. |
|---|---|---|---|
| WBH 10/05/20 | KJK 10/19/20 | MA COP STD-001-02 | 6 |
| Approved by / Date MJL 10/19/20 | Boston Rd - Reliability - Pro Drawing.dwg | | |

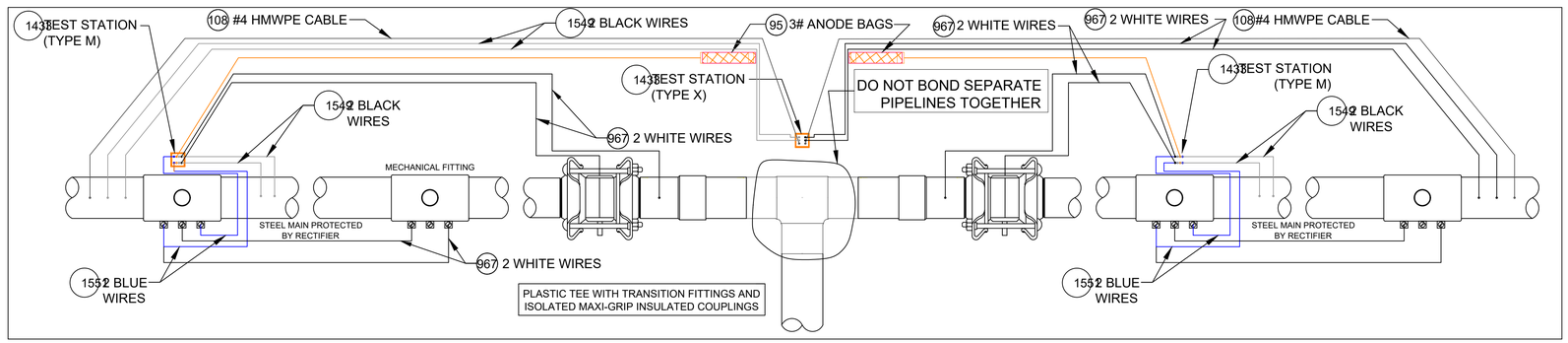
Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)

\\nu.com\data\Shared\Data\Gas\ProjectEngineering\EGMA\Capacity\Projects\2025\Boston Rd - Reliability, 25EG112R\Drawings\



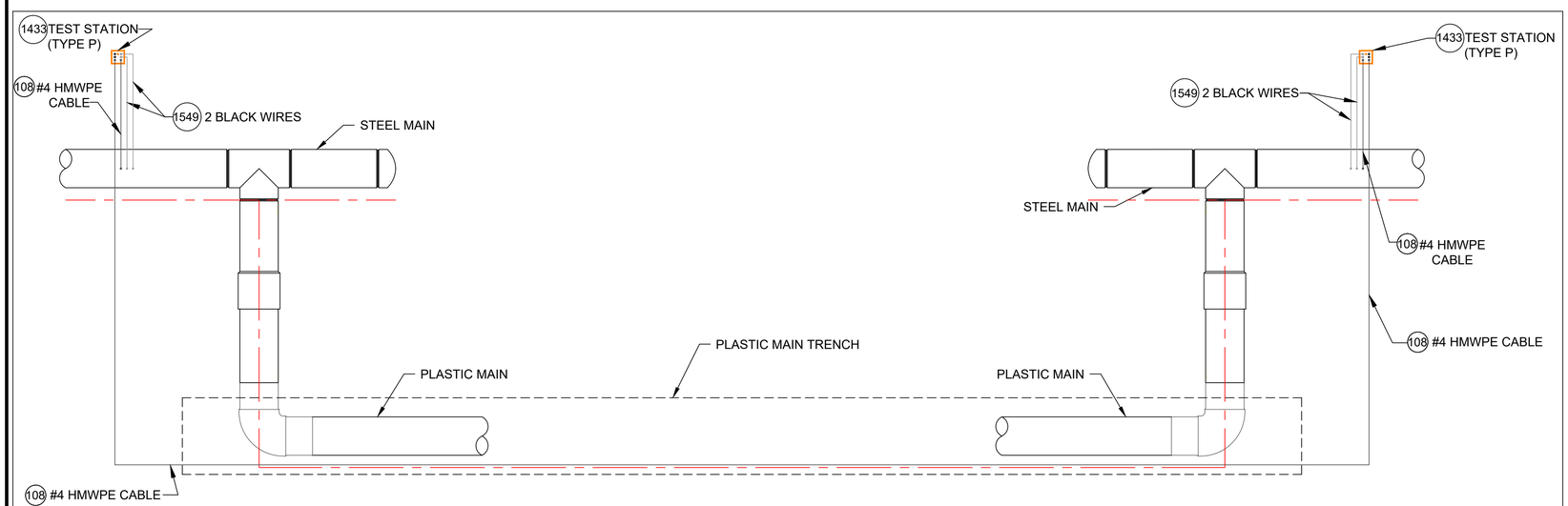

ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS
INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF COATED STEEL PIPING

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, 0F 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:

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: 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.

| No. | Description | Date | Dw/Ck/Ap |
|---|---|---|---|
| 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 |

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 12

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| Drawn by / Date | Checked by / Date | Sheet Number | Rev. No. |
|---|---|---|---|
| WBH 10/05/20 | KJK 10/19/20 | MA COD STD-001-03 | 6 |
| Approved by / Date MJL 10/19/20 | Boston Rd - Reliability - Pro Drawing.dwg | | |

Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)

\\nu.com\data\SharedData\GasProjectEngineering\EGM\Projects\Boston Rd - Reliability, 25EG112R\Drawings\Boston Rd - Reliability - Pro Drawing.dwg Jan 31, 2025 - 2:50pm

Boston Rd - Reliability - Pro Drawing.dwg

\\nu.com\data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Boston Rd - Reliability, 25EG112R\Drawings\

Jan 31, 2025 - 2:50pm

FOR PERMIT ONLY

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| 0 | DWG CREATED | 01/21/25 | PJV / MJN |

Revision/Status

BOSTON RD - RELIABILITY, SPRINGFIELD, MA

PROJECT # 25EG112R / WORK ORDER # 20008451

PLAN

SCALE: NTS SHEET 12 OF 12

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| PJV 01/21/25 | MJN XX/XX/XXX | MA-SPR-PIP-25-400-12 | # |

Attachment: Boston Rd - Reliability - Pro Drawing (8530 : EVERSOURCE - Boston Road)

EVERSOURCE

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

ATTN: Ms. Gladys Oyola, City Clerk

**PROJECT NAME: Boston Rd - Reliability**

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 Boston Rd neighborhoods (as seen in the attached plan). Work will extend to the following streets in varying degrees/durations:

| Street Name | From | To |
|---|---|---|
| Boston Rd | Methuen St | Harvey St |
| Harvey St | HSE # 740 Boston Rd | Boston Rd |

This Project will introduce modernized high-density polyethylene gas infrastructure to the area. 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

Attachment: Boston Rd - Springfield City Council Letter (8530 : EVERSOURCE - Boston Road)

**City Council**
36 Court Street
Springfield, MA 01103

**SCHEDULED**

**PETITION (ID # 8534)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8534 A

# EVERSOURCE - Jean Dr.

## ORDER FOR LOCATION OF UNDERGROUND CONDUIT

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

**WHEREAS,** said petition Jean Dr. was referred to the Board of Public Works on November 7, 2024; and

**WHEREAS,** On February 18, 2025, a Notice of a Public Hearing on Jean Dr. to be held on March 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 March 4, 2025, the Board of Public Works reported thereon that, after careful consideration of the petition to install underground gas facilities on Curve St, Watling St, Ivan St, Cadwell Dr., Ronald Dr., Kenway Dr., Jean Dr., and Bray St. to upgrade to medium-pressure and retire low-pressure cast iron gas infrastructure; all substantially shown on a plan attached with the project name:

Jean Dr.

Consisting of twenty-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 Jean 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 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.

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

EVERSOURCE

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

ATTN: Ms. Gladys Oyola, City Clerk

**PROJECT NAME: Jean Dr - 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:

| Street Name | From | To |
|---|---|---|
| Curve St | Page Bv | Cadwell Dr |
| Watling St | Curve St | Cadwell Dr |
| Ivan St | Watling St | Curve St |
| Cadwell Dr | Curve St | Watling St |
| Ronald Dr | Curve St | EOM |
| Kenway Dr | Ronald Dr | Bray St |
| Jean Dr | Ronald Dr | Bray St |
| Bray St | Kenway Dr | Jean Dr |

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

Attachment: Jean Dr - Springfield City Council Letter (8534 : EVERSOURCE - Jean Dr.)

# TABLE OF CONTENTS


| SHEET # | TITLE |
|---|---|
| 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 | MA PREPARATORY AND FINAL TIE-IN DETAILS |
| 08 OF 26 | MA PREPARATORY AND FINAL TIE-IN DETAILS |
| 09 OF 26 | MA PREPARATORY AND FINAL TIE-IN DETAILS |
| 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 |


EVERSOURCE ENERGY

LEGEND

- 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

## WORK SCOPE

**PROJECT SUMMARY TABLE**
**INSTALLATION INFORMATION**

| Work Type | LENGTH (FT) | SIZE (IN) | MAOP | MATERIAL |
|---|---|---|---|---|
| INSTALL | 5,381' | 2" | 60 PSIG | HDPE |
| | | | | |
| | | | INSTALLATION TOTAL | 5,381' |
| | | | UPRATE/RETEST TOTAL | 0' |

**PROJECT SUMMARY TABLE**
**ABANDONMENT INFORMATION**

| LENGTH (FT) | SIZE (IN) | MAOP | ABANDONMENT CLASS |
|---|---|---|---|
| 790' | 4" | 14" WC | Bare ST (GSEP) |
| 214' | 4" | 14" WC | Plastic (Non-GSEP) |
| 872' | 4" | 14" WC | Unprotected CS (GSEP) |
| 1,063' | 6" | 14" WC | Bare ST (GSEP) |
| 555' | 6" | 14" WC | Plastic (Non-GSEP) |
| 1,764' | 6" | 14" WC | Unprotected CS (GSEP) |
| | | | |
| | | | |
| | | | |
| | | | |
| GSEP ABANDONMENT SUBTOTAL | | | 4,489' |
| NON-GSEP ABANDONMENT SUBTOTAL | | | 769' |
| ABANDONMENT TOTAL | | | 5,258' |

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER

DANIEL D'ELETTO, P.E. 2024.08.26 08:14:28-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
COVER SHEET

SCALE: 1"=40' ON 22"X34" SHEET 01 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ / 6/5/2024 | AM / 7/15/2024 | MA-SPR-PIP-25-008-01 | 0 |

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT #25EG010
WORK ORDER #16660140

Attachment: Jean Drive - Pro Drawing Rev0 - PE Stamped (8534 : EVERSOURCE - Jean Dr.)

Jean Drive - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_27980\
Aug 23, 2024 - 7:46pm

## 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.

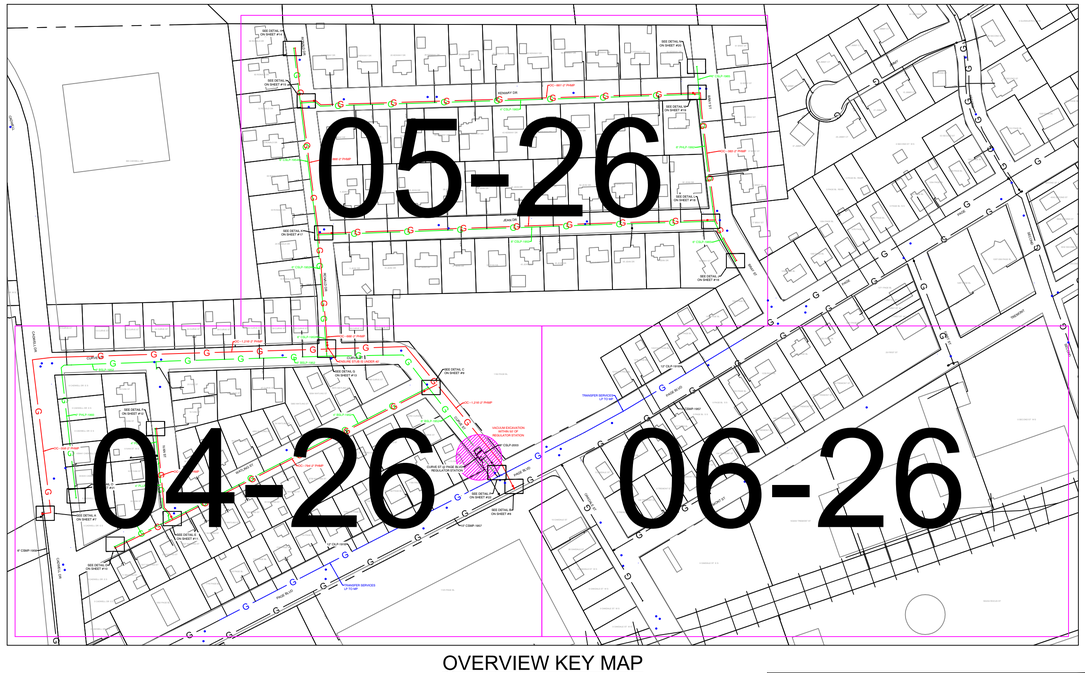
WARNING:
FOR LP SYSTEMS (≤2 PSIG), **DO NOT USE** VENT STACKS LARGER THAN THOSE LISTED IN TABLE 3. DOING SO MAY CAUSE THE EXIT VELOCITY OF THE PURGE GASSES OUT OF THE STACK TO DROP BELOW THE RATE OF FLAME TRAVEL. IF VENT GASSES BECOME IGNITED, THE FLAME COULD TRAVEL BACK THROUGH THE VENT STACK, INTO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




OVERVIEW KEY MAP
NOT TO SCALE

**JEAN DRIVE, INDIAN ORCHARD — COMPLETE BOM**

**REQUIRED BILL OF MATERIALS**

| Item Number | Maximo Part Number | Description | Quantity | Units |
|---|---|---|---|---|
| 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 | 6 | EA |
| 1656 | 620089 | FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC | 8 | EA |
| 1653 | 620808 | FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924 | 7 | EA |

**JEAN DRIVE, INDIAN ORCHARD — COMPLETE BOM**

**REQUIRED BILL OF MATERIALS**

| Item Number | Maximo Part Number | Description | Quantity | Units |
|---|---|---|---|---|
| 15 | 500854 | COUPLING, 2 IN IPS, ELECTROFUSION, PLASTIC,P100 | 2 | EA |
| 48 | 500866 | TEE,PIPE, NON-BLOWING, 2 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 |
| 377 | 505818 | ANODE,BAG, 2.5 X 2.5 X 4.5 IN, 10 FT LG, 3 LB, MAGNESIUM, Alternate IN 577776 | 11 | EA |
| 370 | 513679 | CABLE, INSULATED, MDP, #12 AWG, 7 STR, YELLOW, POLYETHYLENE-30, SOFT DRAWN CU, 500 FT/RL, FOR USED AS PIPE LOCATOR | 5381 | FT |
| 8 | 542572 | CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 6 | EA |
| 225 | 543028 | CLAMP,PIPE, REPAIR, 4 IN IPS, SS, W/1-1/4 IN TAP | 2 | EA |
| 229 | 543029 | CLAMP,PIPE, REPAIR, 6 IN IPS, SS, W/1-1/4 IN TAP | 5 | EA |
| 19 | 545367 | ELBOW,PIPE, 90 DEG, 2 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 2 | EA |
| 72 | 546256 | FITTING, TRANSITION, 2 IN IPS CS X 2 IN IPS, PE4710, SDR 11, STEEL WELD X PLASITC, BUTT WELD | 2 | EA |
| 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 | 520 | FT |
| 359 | 554877 | PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 7 | EA |
| 361 | 554878 | PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 10 | EA |
| 29 | 560705 | TEE,PIPE, 2 IN IPS SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 6 | EA |
| 33 | 562087 | VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING | 8 | 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, | 6 | 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 | 3 | EA |
| 244 | 578184 | FITTING,COUPLING, VENTED, INSULATED, 4 IN, FOR STEEL PIPE | 2 | EA |
| 246 | 578185 | FITTING,COUPLING, VENTED, INSULATED, 6 IN, W/ END CAP, FOR STEEL PIPE, EZB6VIUMG | 4 | 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 | 4861 | FT |
| 1660 | 602892 | FITTING,TEE, 2 IN IPS X 1 IN IPS, ELECTROFUSION, HDPE, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055 | 7 | EA |
| 1661 | 602894 | FITTING,TEE, 4 IN IPS X 1 IN IPS, ELECTROFUSION, WITH BUTT FUSION OUTLET, HDPE, BLACK, ASTM F1055 | 1 | EA |
| 296 | 610060 | TEE, NON-BLOWING, FOR VALVE, 2 IN TEE OUTLET X 2 IN MAIN, WELDED, 250 PSIG, W/ CI CAP, CMA 44788502 | 2 | EA |
| 43 | 610062 | BOX VALVE, EXTENTION, 18 X 24 IN LONG, CMA 4232860 | 8 | EA |
| 488 | 610264 | NIPPLE,PIPE, NON-BLOWING, DRILL, 1-1/4 IN X 3 IN, WELDED, 1440 PSIG, CMA 2485855 | 2 | EA |
| 90 | 610757 | FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823 | 1 | 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 | 1 | EA |
| 98 | 610764 | FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100 | 1 | EA |
| 99 | 610772 | FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101 | 1 | EA |

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS — DANIEL D'ELETTO CIVIL No. 55061 — PROFESSIONAL ENGINEER

DANIEL D'ELETTO, P.E. 2024.08.26 08:14:28-04'00'

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

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
NOTES
SCALE: 1"=40' ON 22"X34" SHEET 02 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-02 | 0 |

Jean Drive - Pro Drawing Rev0.dwg
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Aug 23, 2024 - 7:46pm
Attachment: Jean Drive - Pro Drawing Rev0 - PE Stamped (8534 : EVERSOURCE - Jean Dr.)

## DRAWING LEGEND

### Gas Main Symbology

REGULATING STATION 50' BOUNDARY

EXISTING GAS MAIN — G — G —

PROPOSED GAS MAIN — G — G —

GAS MAIN TO BE ABANDONED — G — G —

GAS MAIN WITH SERVICE TRANSFERS — G — G —

GAS MAIN WITH PRESSURE INCREASE — G — G —

RIGHT-OF-WAY

ELECTRIC — E — E —

WATER LINE — W — W —

SEWER LINE — S — S —

TELEPHONE — T — T —

DRAIN LINE — D — D —

FENCE LINE — x — x — x — x — x — x —

### 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 |
| R | Single Customer Regulator |
| M | Meter |
| MR | Meter with Regulator |
| | Test Point (Station) |
| T | Gas Service Tie-over |
| R | Gas Service Replacement |
| MMO | Meter Move Out |

### Swing Tie Symbology

| | |
|---|---|
| T | Telephone Manhole |
| D | Drain Manhole |
| E | Electric Manhole |
| | Catch Basis |
| S | Sewer Manhole |
| | Fire Hydrant |
| | Utility Pole |
| | Property Marker |
| T | Telephone Pedestal |
| C | Television Pedestal |
| U | Unknown Manhole |
| W | Water Box |
| W | Water Gate |
| E | Electric Pedestal |
| | Iron Pin |
| | Light Pole |
| | INSIDE METER |
| | OUTSIDE METER |

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COMMONWEALTH OF MASSACHUSETTS — DANIEL D'ELETTO CIVIL No. 55061 — PROFESSIONAL ENGINEER

DANIEL D'ELETTO, P.E. 2024.08.26 08:14:28-04'00'

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
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| | | | |
| | | | |
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA

PROJECT # 25EG010 / WORK ORDER # 16660140

LEGEND

SCALE:1"=40' ON 22"X34" SHEET 03 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-03 | 0 |

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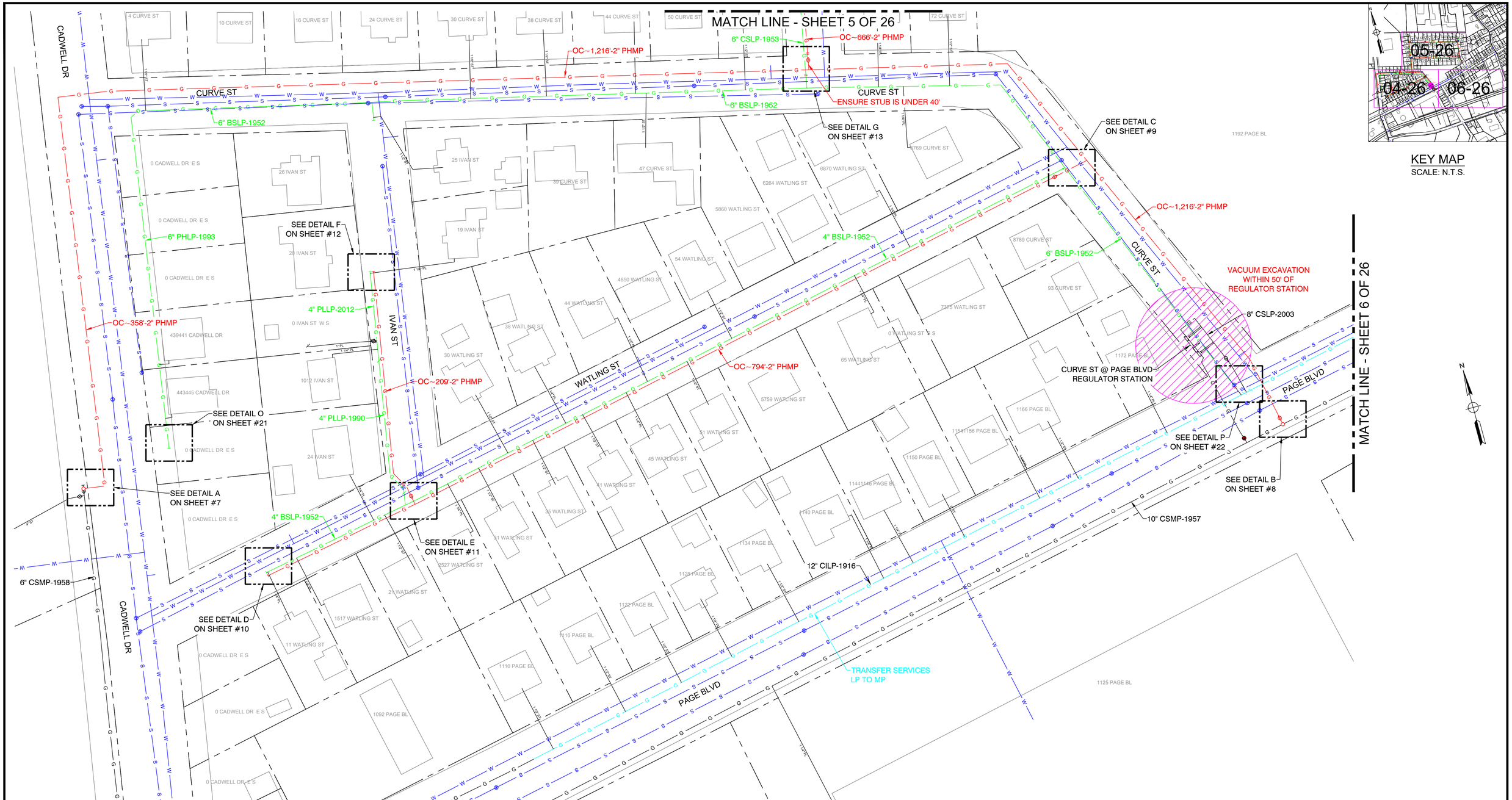


| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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Revision/Status

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA

PROJECT # 25EG010 / WORK ORDER # 16660140

PROJECT LOCATION PLANS

SCALE: 1"=40' ON 22"X34" SHEET 04 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-04 | 0 |

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MATCH LINE - SHEET 4 OF 26




KEY MAP
SCALE: N.T.S.

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

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DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PROJECT LOCATION PLANS
SCALE: 1"=40' ON 22"X34" SHEET 05 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
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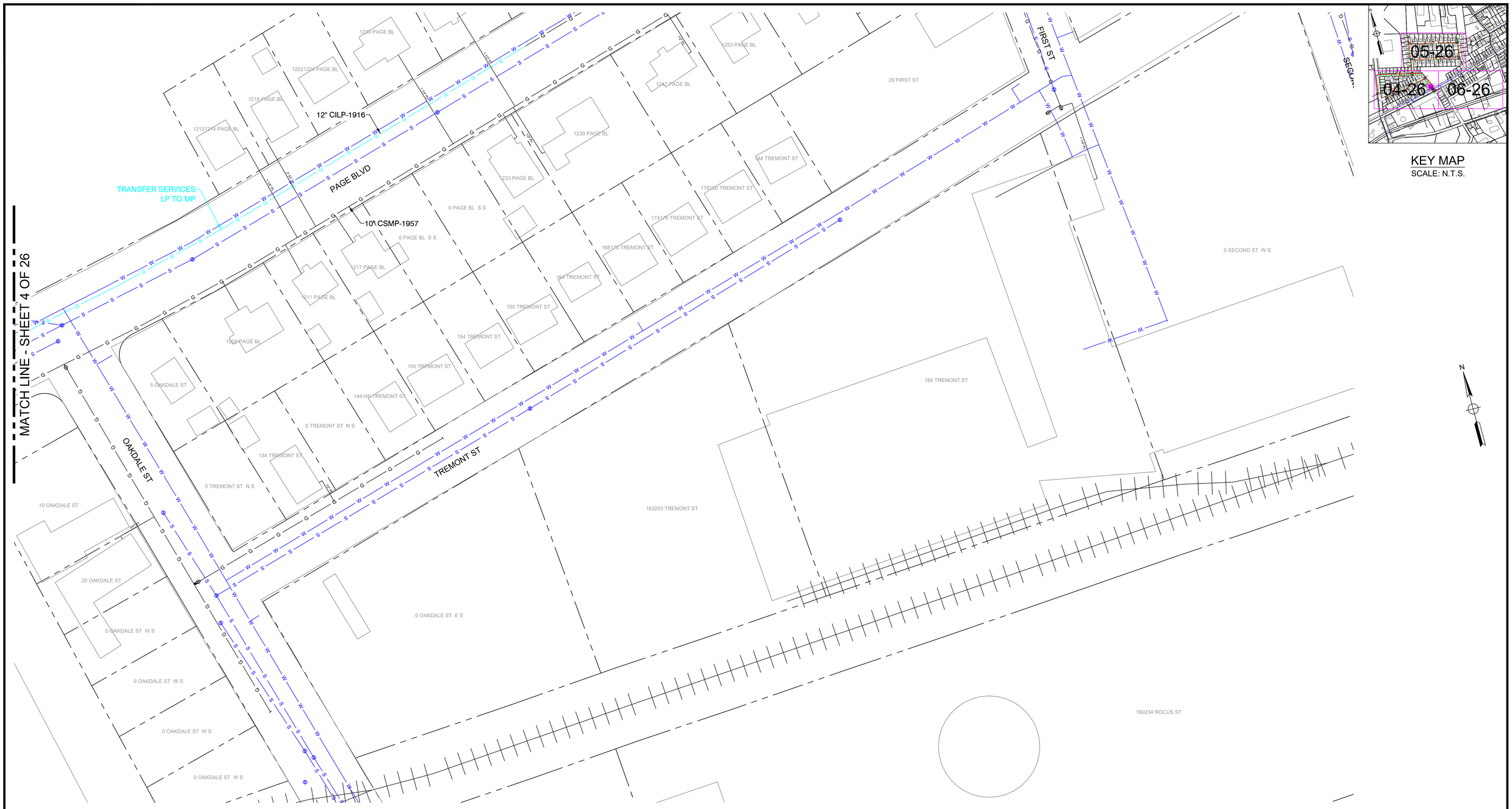


| No. | Description | Date | Dw/Ck |
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| | Revision/Status | | |

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DANIEL D'ELETTO CIVIL No. 55061 PROFESSIONAL ENGINEER

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA

PROJECT # 25EG010 / WORK ORDER # 16660140

PROJECT LOCATION PLANS

SCALE: 1"=40' ON 22"X34" SHEET 06 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-06 | 0 |

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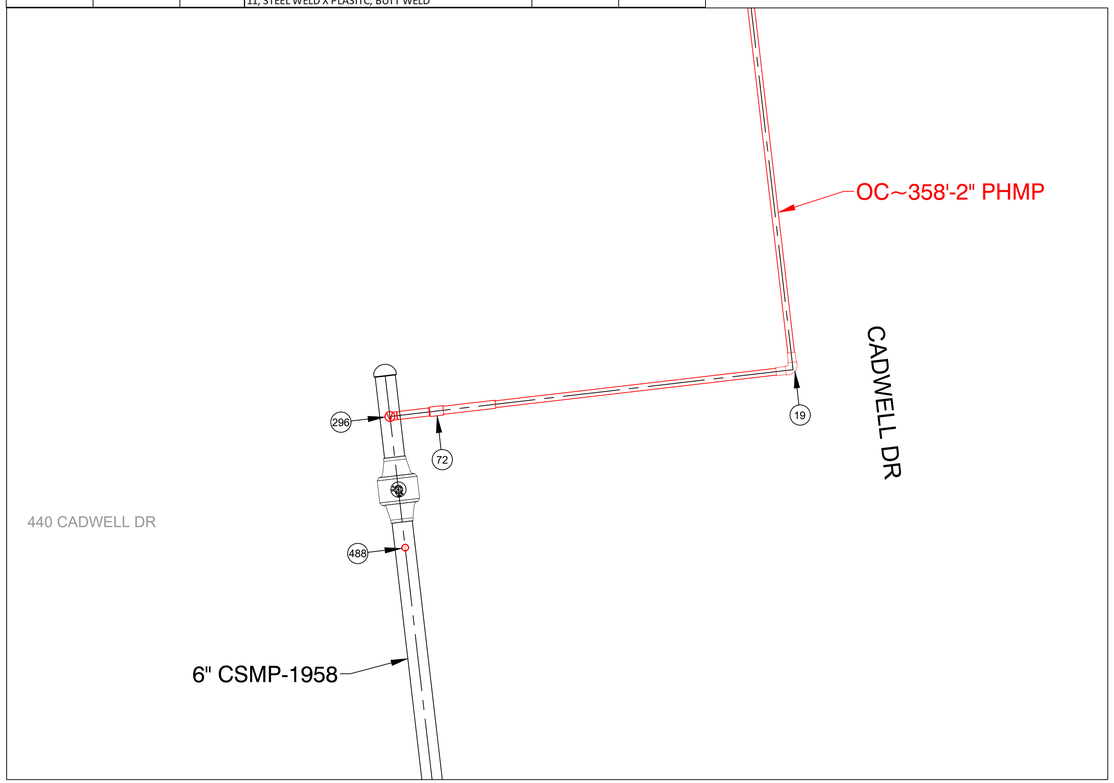
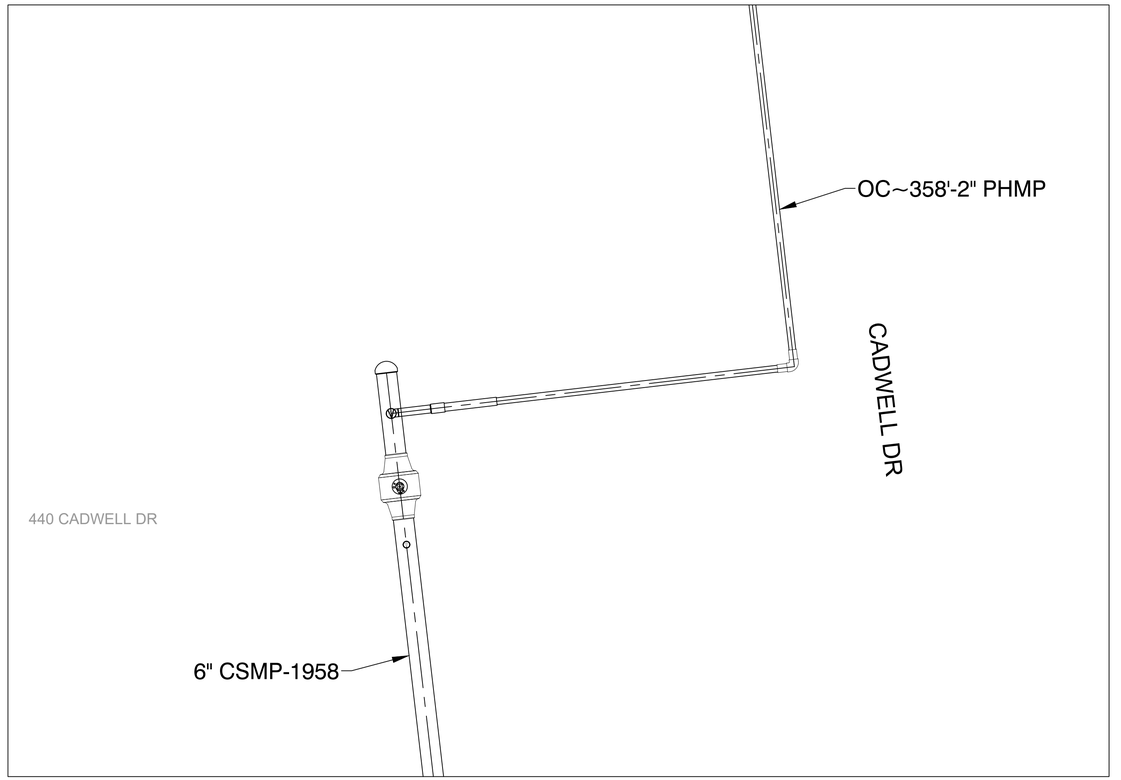
| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "A" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 19 | 63078117 | 545367 | ELBOW,PIPE, 90 DEG, 2 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 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 |
| 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 PLASITC, BUTT WELD | 1 | EA |




PREPARATORY TIE-IN DETAIL A
NOT TO SCALE




FINAL TIE-IN DETAIL A
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.08.26 08:14:29-04'00'

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
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| | | | |
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 07 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-07 | 0 |

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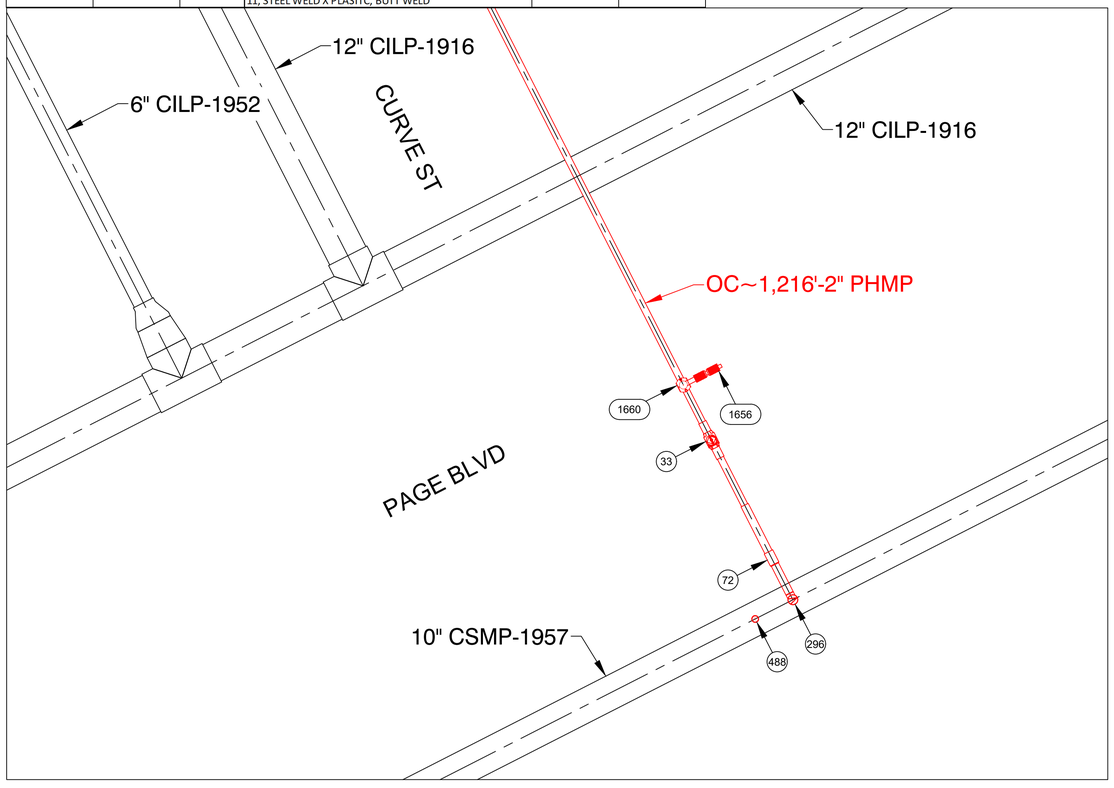
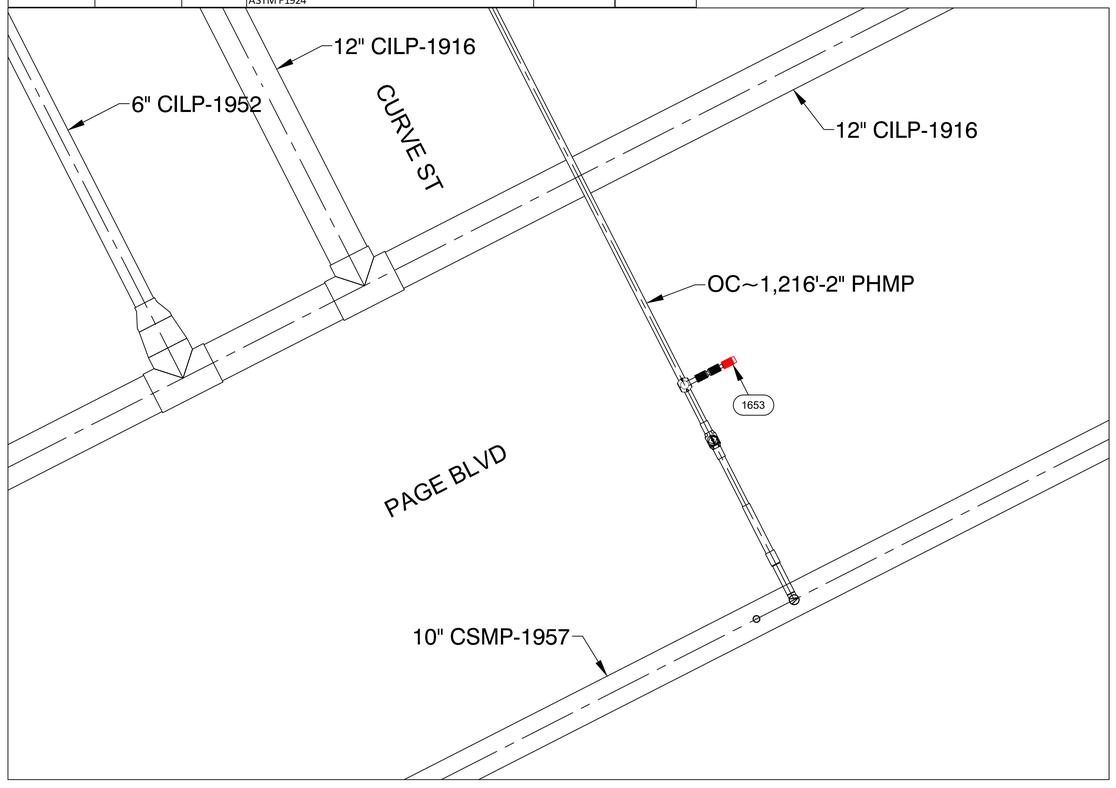
| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "B" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, PIPE, 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 |
| 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 |
| 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 PLASITC, BUTT WELD | 1 | EA |




PREPARATORY TIE-IN DETAIL B
NOT TO SCALE

| JEAN DRIVE, INDIAN ORCHARD | | | | 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 CONSTRUCTION

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DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER

DANIEL D'ELETTO, P.E. 2024.08.26 08:14:30-04'00'

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 08 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-08 | 0 |

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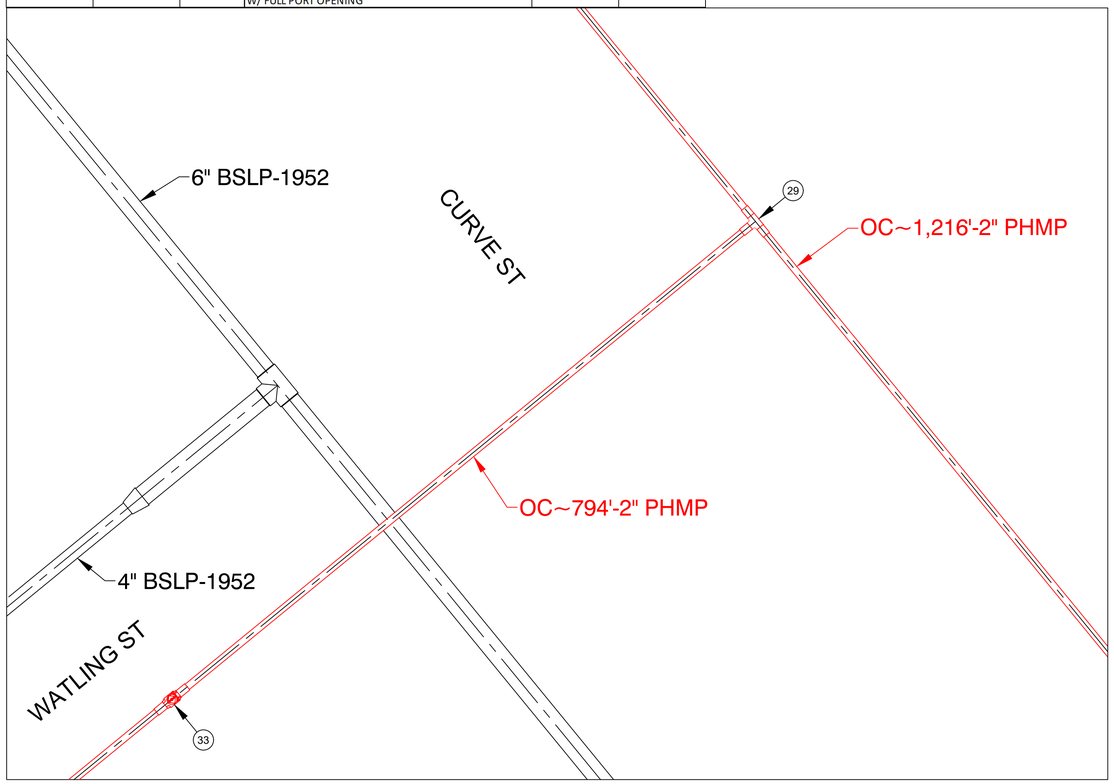
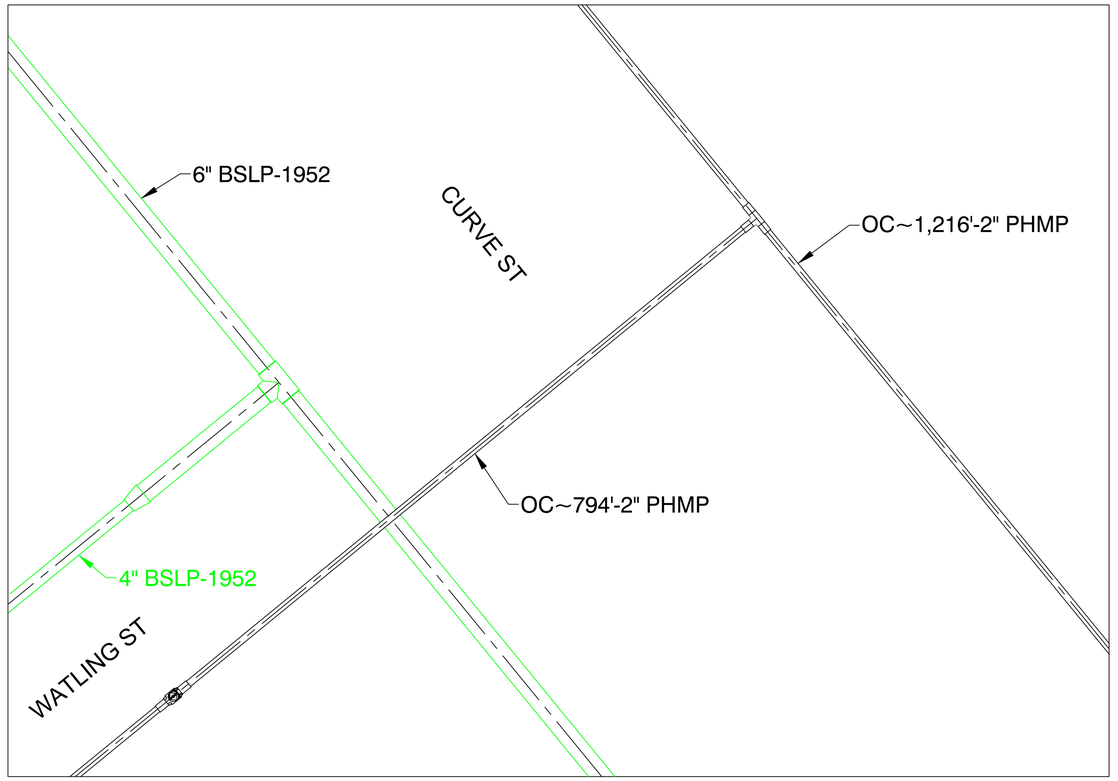
| JEAN DRIVE, INDIAN ORCHARD | | | | | DETAIL "C" PREPARATORY |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 29 | 63078441 | 560705 | TEE,PIPE, 2 IN IPS SDR 11, 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

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.08.26 08:14:30-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 09 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-09 | 0 |

Jean Drive - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
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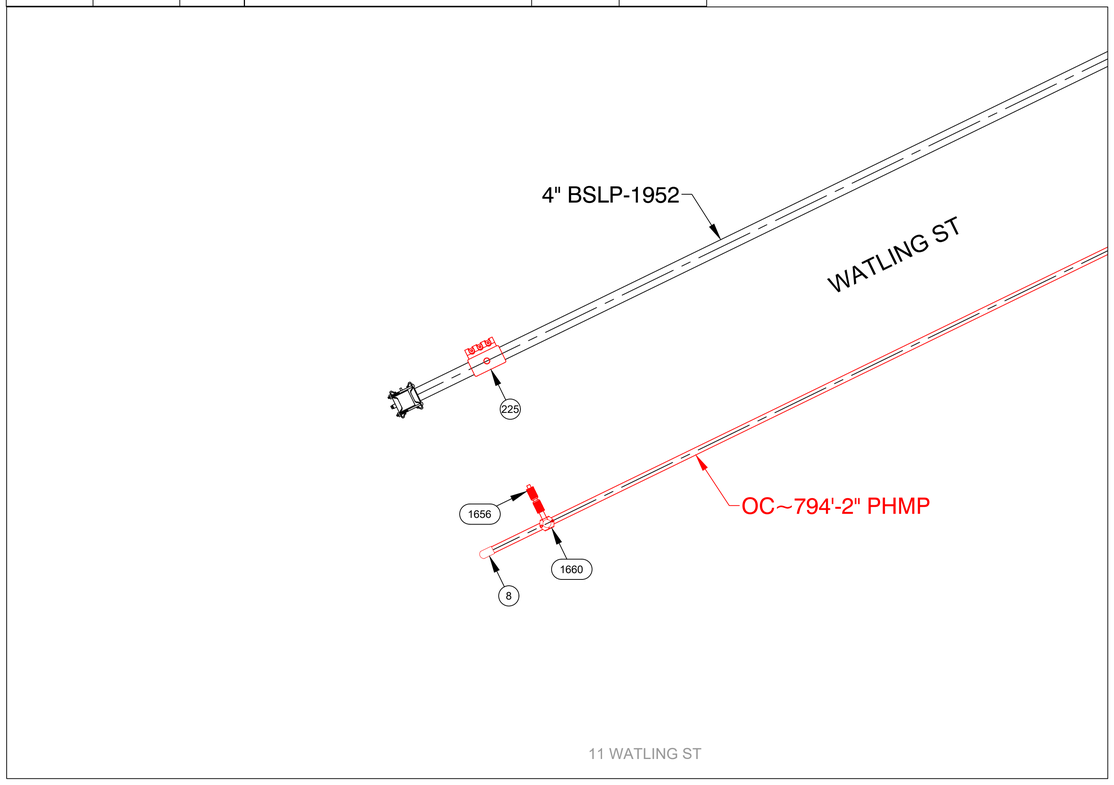
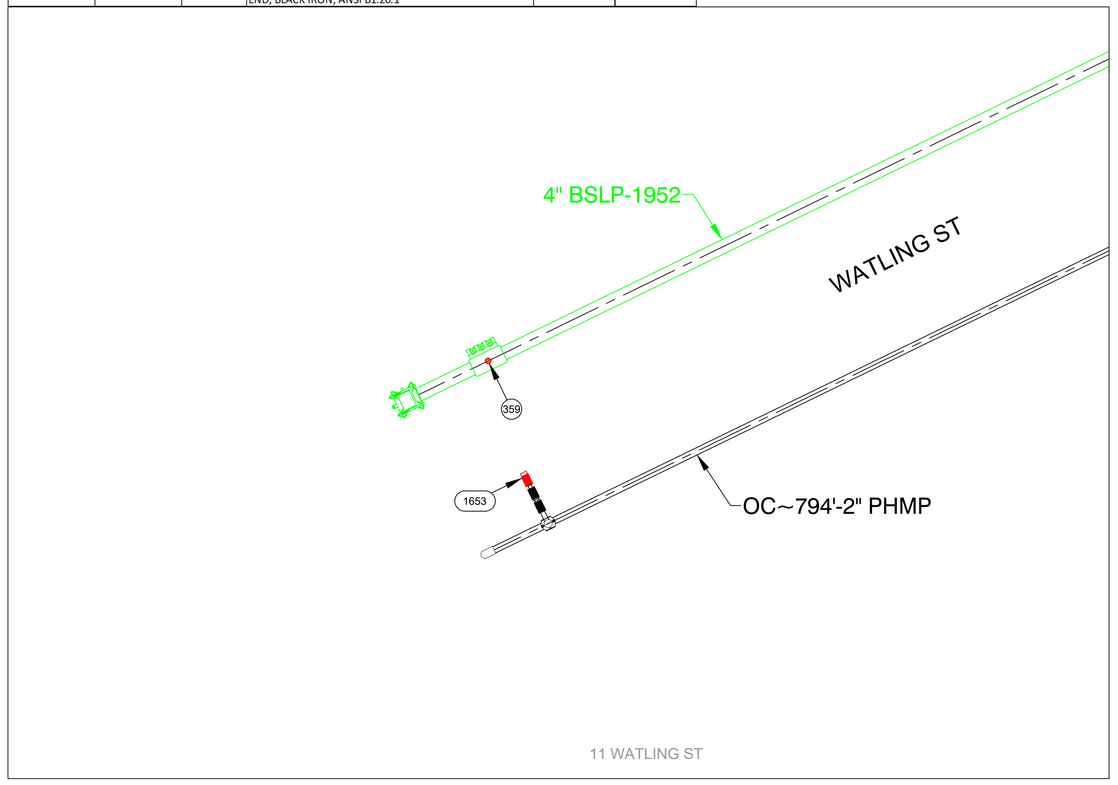
Aug 23, 2024 - 7:46pm
Attachment: Jean Drive - Pro Drawing Rev0 - PE Stamped (8534 : EVERSOURCE - Jean Dr.)

| JEAN DRIVE, INDIAN ORCHARD | | | | | 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 |
| 225 | 63462107 | 543028 | CLAMP,PIPE, REPAIR, 4 IN IPS, SS, W/1-1/4 IN TAP | 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

| JEAN DRIVE, INDIAN ORCHARD | | | | | 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 |
| 359 | 19080285 | 554877 | PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 1 | EA |




FINAL TIE-IN DETAIL D
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E.
2024.08.26 08:14:31-04'00'

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

| No. | Description | Date | Dw/Ck |
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| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 10 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-10 | 0 |

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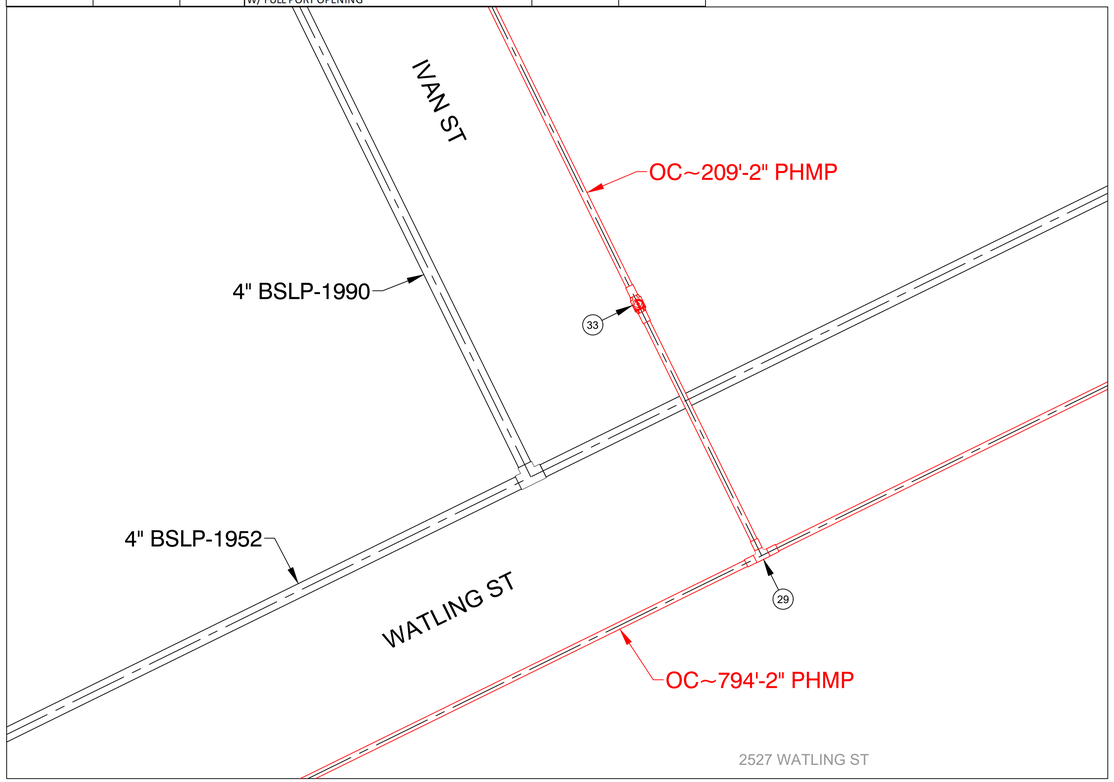
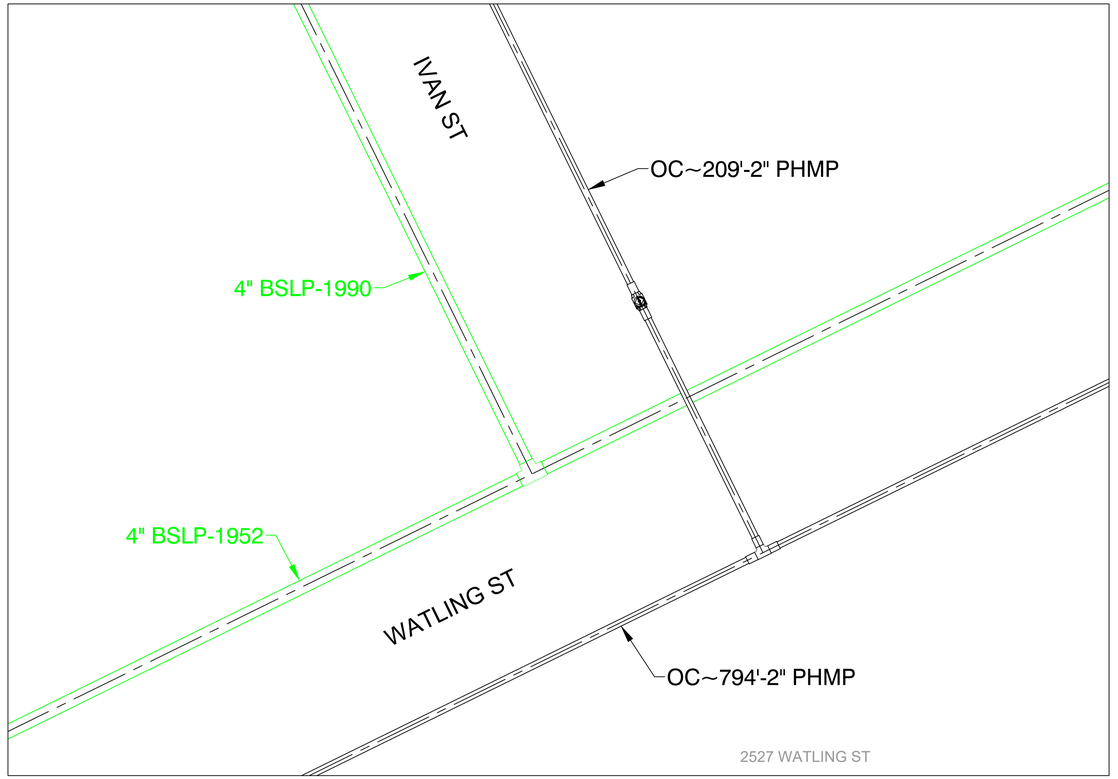
Aug 23, 2024 - 7:46pm
Attachment: Jean Drive - Pro Drawing Rev0 - PE Stamped (8534 : EVERSOURCE - Jean Dr.)

| JEAN DRIVE, INDIAN ORCHARD | | | | | 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

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.08.26 08:14:31-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 11 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-11 | 0 |

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Aug 23, 2024 - 7:46pm
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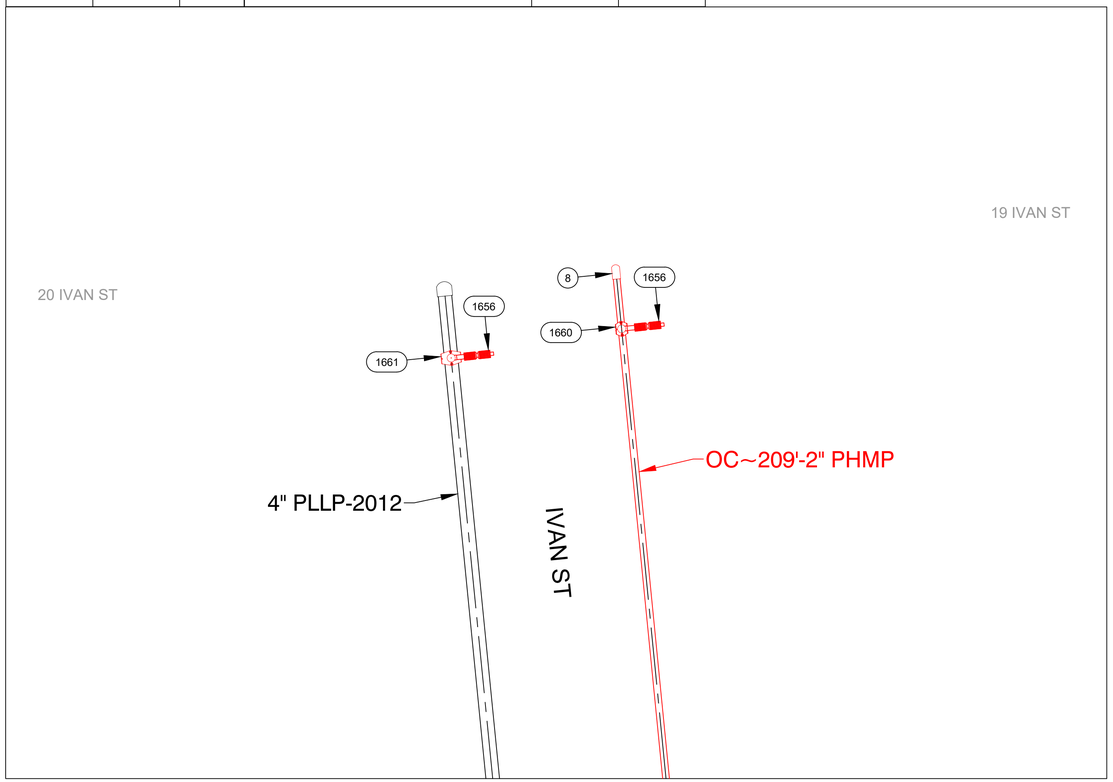
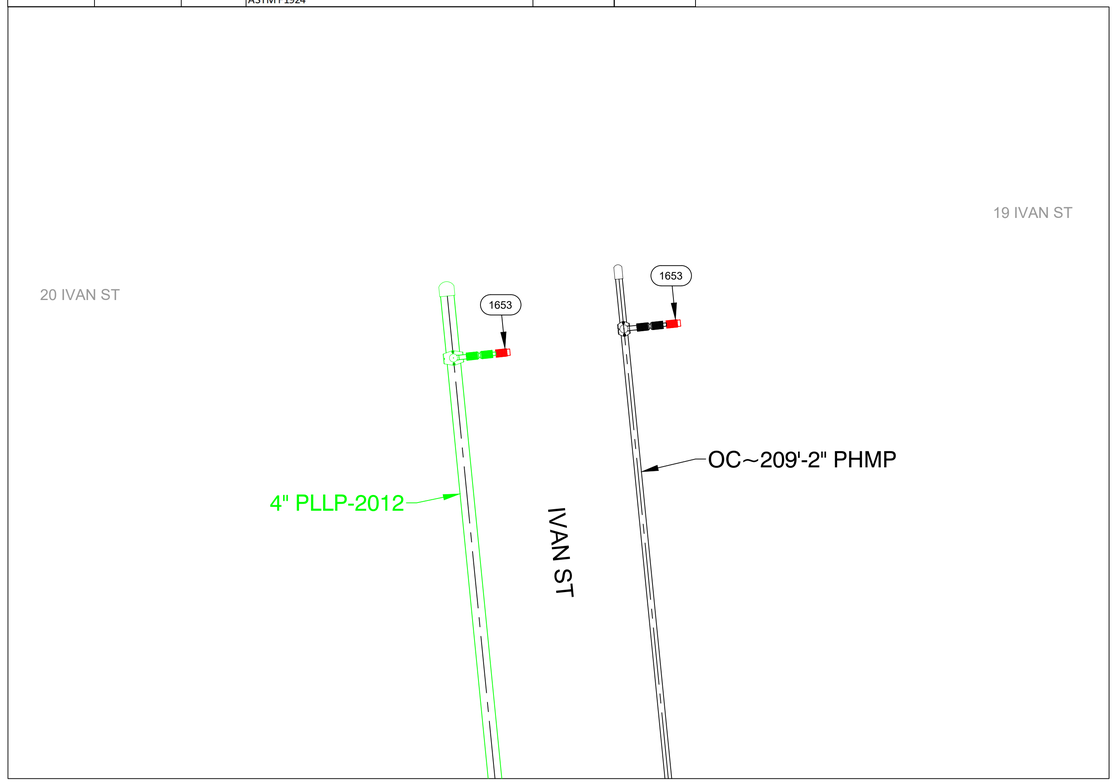
| JEAN DRIVE, INDIAN ORCHARD | | | | | DETAIL "F" PREPARATORY |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, PIPE, LYCOFIT, 1 IN IPS SDR11, PLASTIC | 2 | 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 |
| 1661 | MCJUREMA-000 | 602894 | FITTING,TEE, 4 IN IPS X 1 IN IPS, ELECTROFUSION, 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 F
NOT TO SCALE

| JEAN DRIVE, INDIAN ORCHARD | | | | | 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 | 2 | EA |




FINAL TIE-IN DETAIL F
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061 PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.08.26 08:14:31-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| | | | |
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 12 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-12 | 0 |

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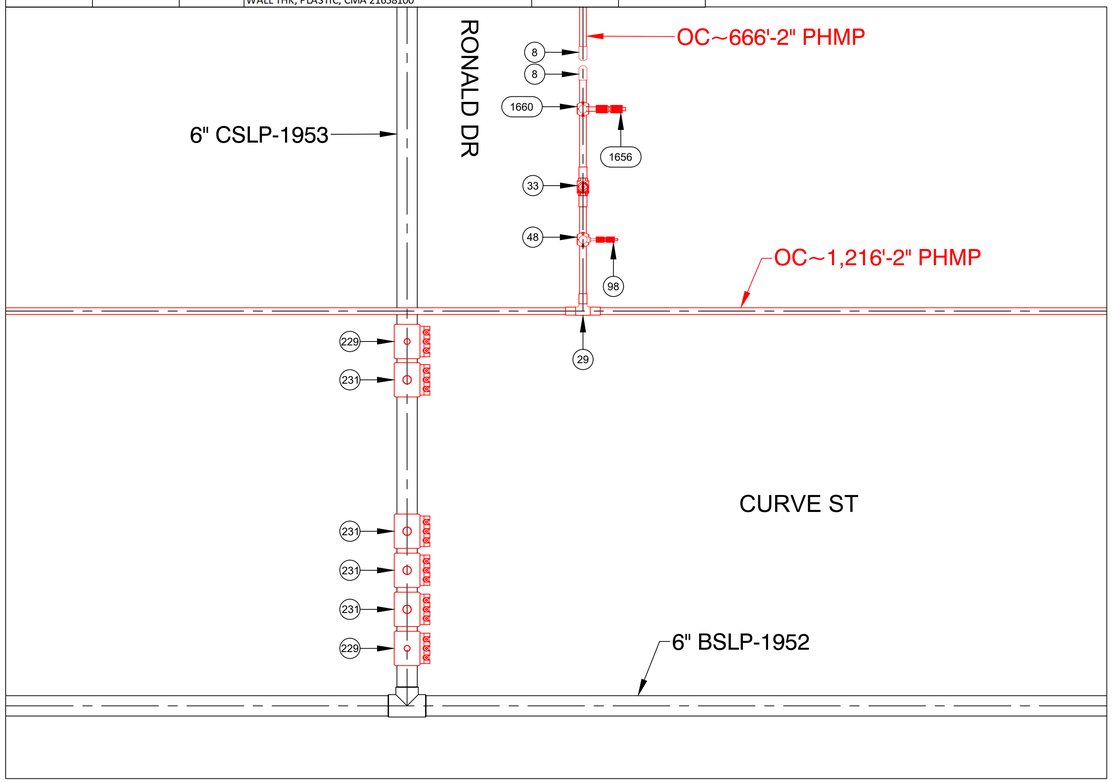
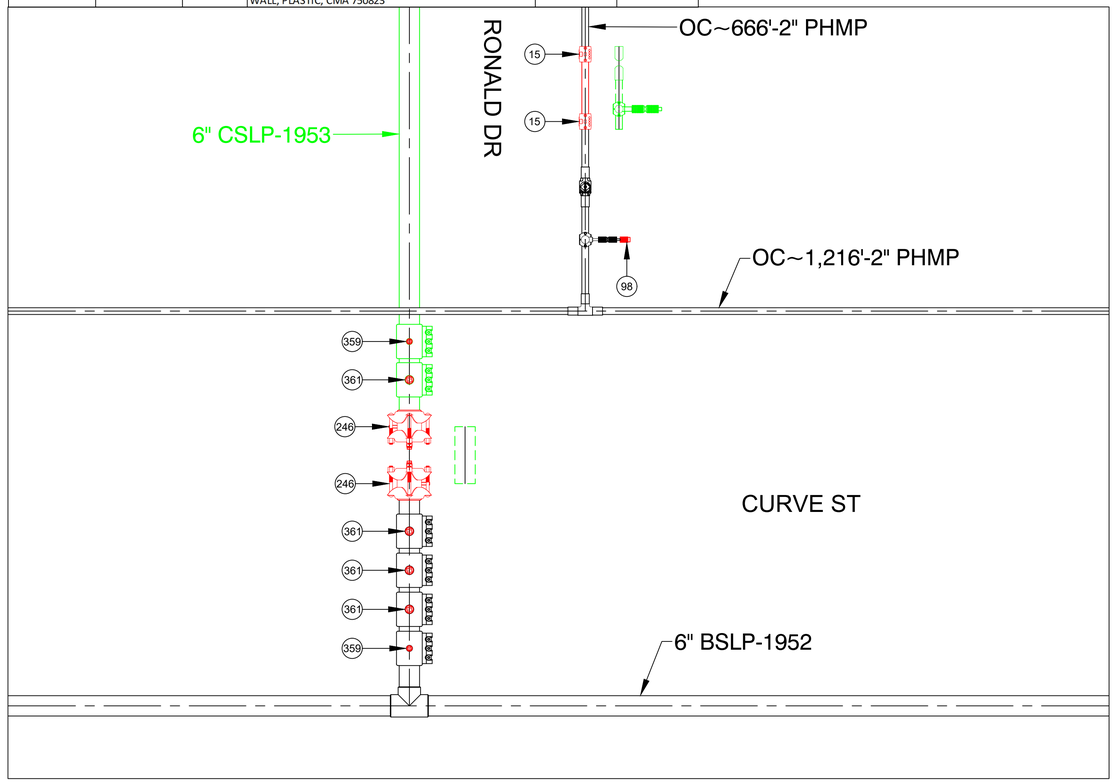
Aug 23, 2024 - 7:46pm
Attachment: Jean Drive - Pro Drawing Rev0 - PE Stamped (8534 : EVERSOURCE - Jean Dr.)

| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "G" 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 |
| 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 TAPR'D END GSK | 4 | EA |
| 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 |
| 48 | 63051215 | 500866 | TEE,PIPE, NON-BLOWING, 2 X 1/2 IN CTS X 0.090 IN THK WALL SDR 7, ELECTROFUSION X COMPRESSION ENDS, LIGHT WALL, POLYETHYLENE, PE3408/PE100 | 1 | EA |
| 8 | 63078024 | 542572 | CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 2 | 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 G
NOT TO SCALE

| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "G" FINAL | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 15 | 63054025 | 500854 | COUPLING, 2 IN IPS, ELECTROFUSION, PLASTIC,P100 | 2 | EA |
| 246 | 63483200 | 578185 | FITTING,COUPLING, VENTED, INSULATED, 6 IN, W/ END CAP, FOR STEEL PIPE, EZB6VIUMG | 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 |
| 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 G
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.08.26 08:14:32-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 13 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-13 | 0 |

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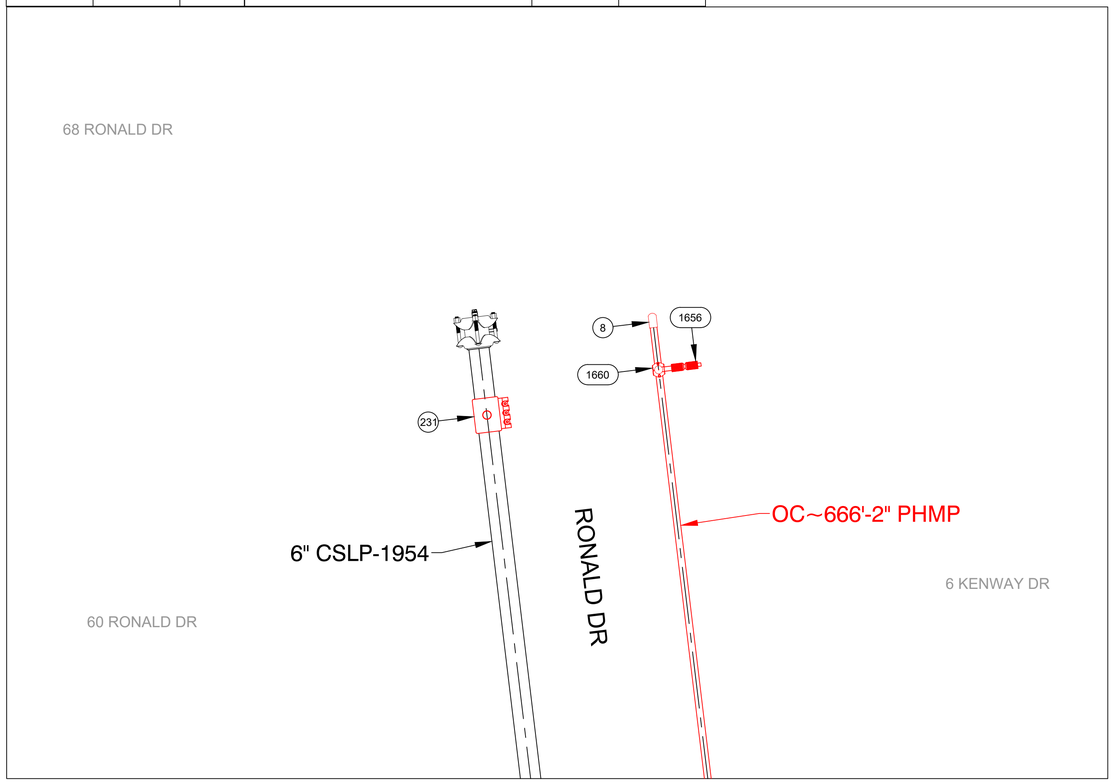
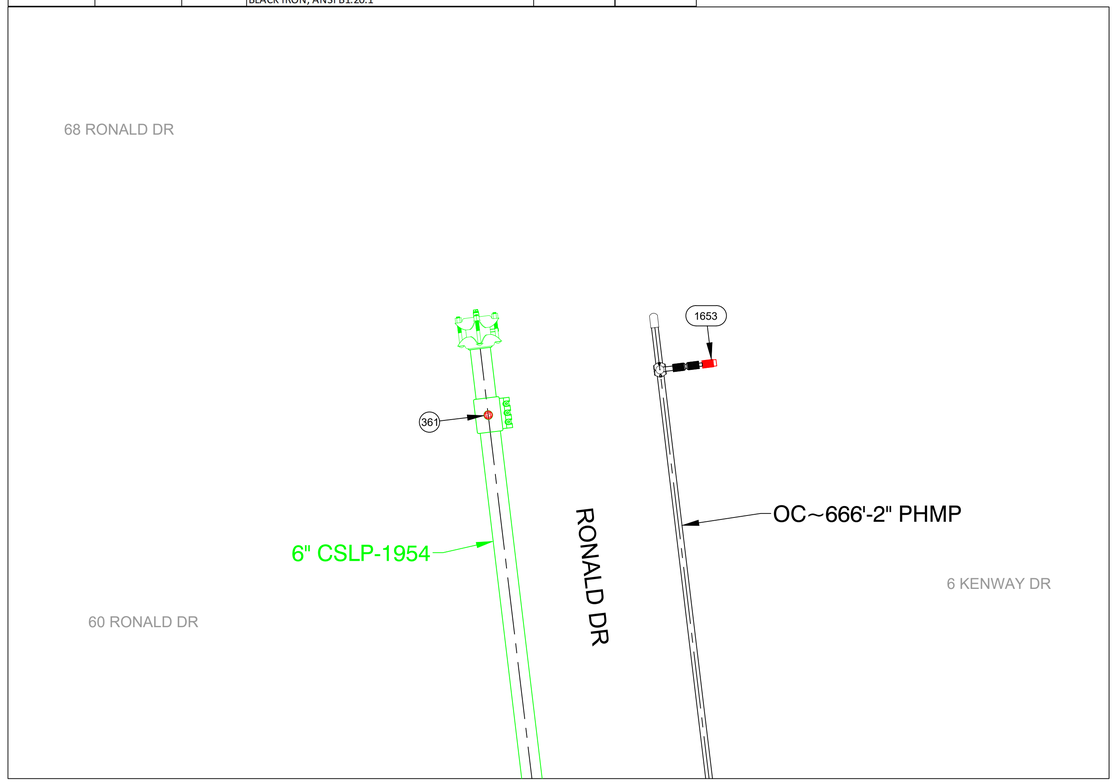
| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "H" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, PIPE, 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 |
| 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 |
| 8 | 63078024 | 542572 | CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 1 | EA |




PREPARATORY TIE-IN DETAIL H
NOT TO SCALE

| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "H" 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 H
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.08.26 08:14:32-04'00'

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

| No. | Description | Date | Dw/Ck |
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| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 14 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-14 | 0 |

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Aug 23, 2024 - 7:46pm
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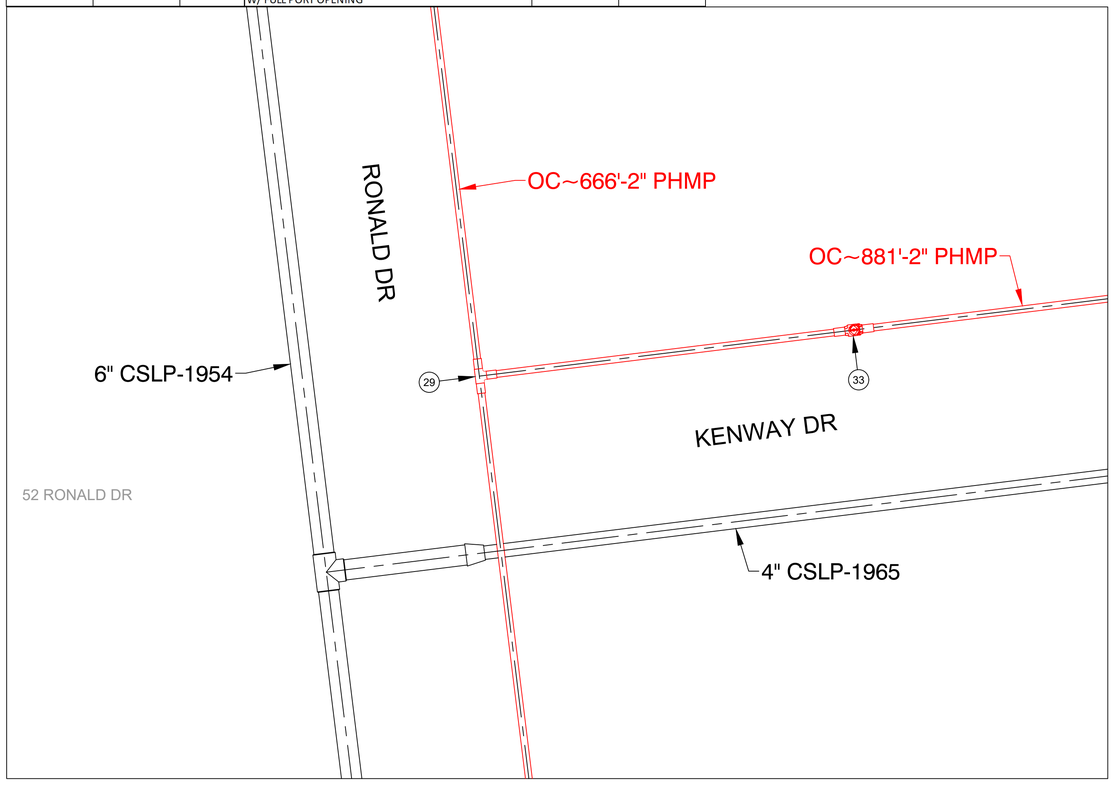
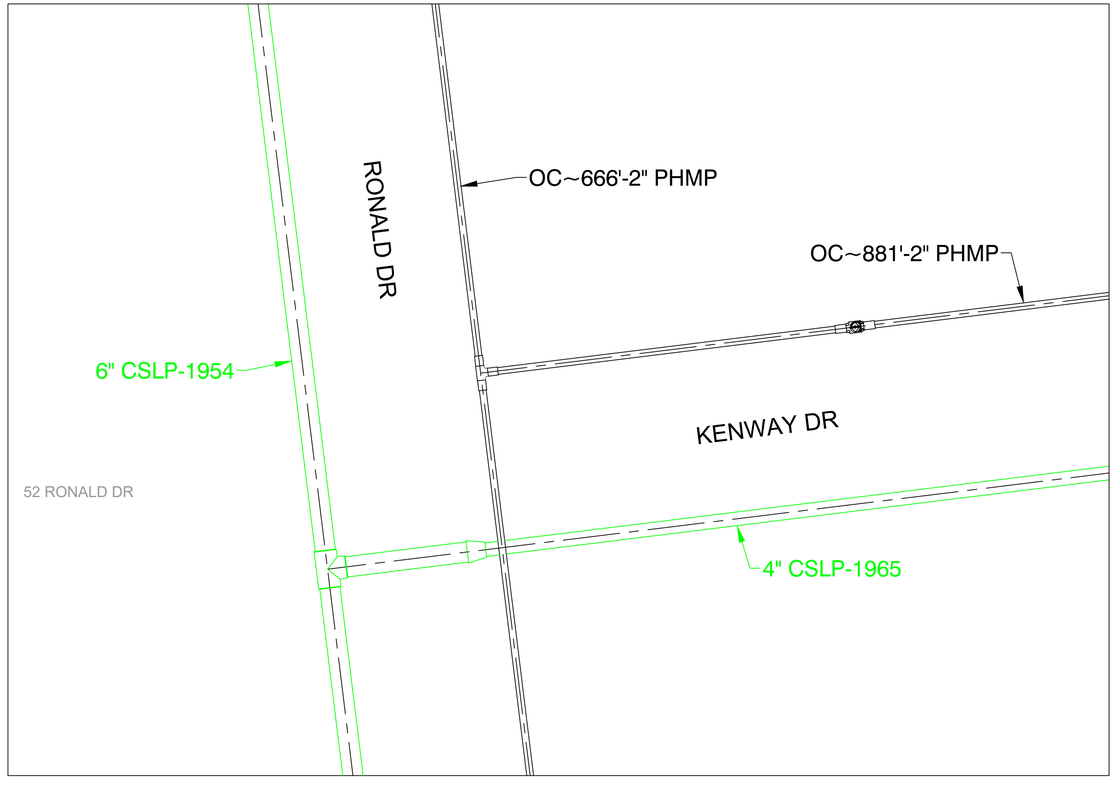
| JEAN DRIVE, INDIAN ORCHARD | | | | | DETAIL "I" PREPARATORY |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 29 | 63078441 | 560705 | TEE,PIPE, 2 IN IPS SDR 11, 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 I
NOT TO SCALE




FINAL TIE-IN DETAIL I
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061 PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.08.26 08:14:33-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| | | | |
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 15 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-15 | 0 |

Jean Drive - Pro Drawing Rev0.dwg
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Aug 23, 2024 - 7:46pm
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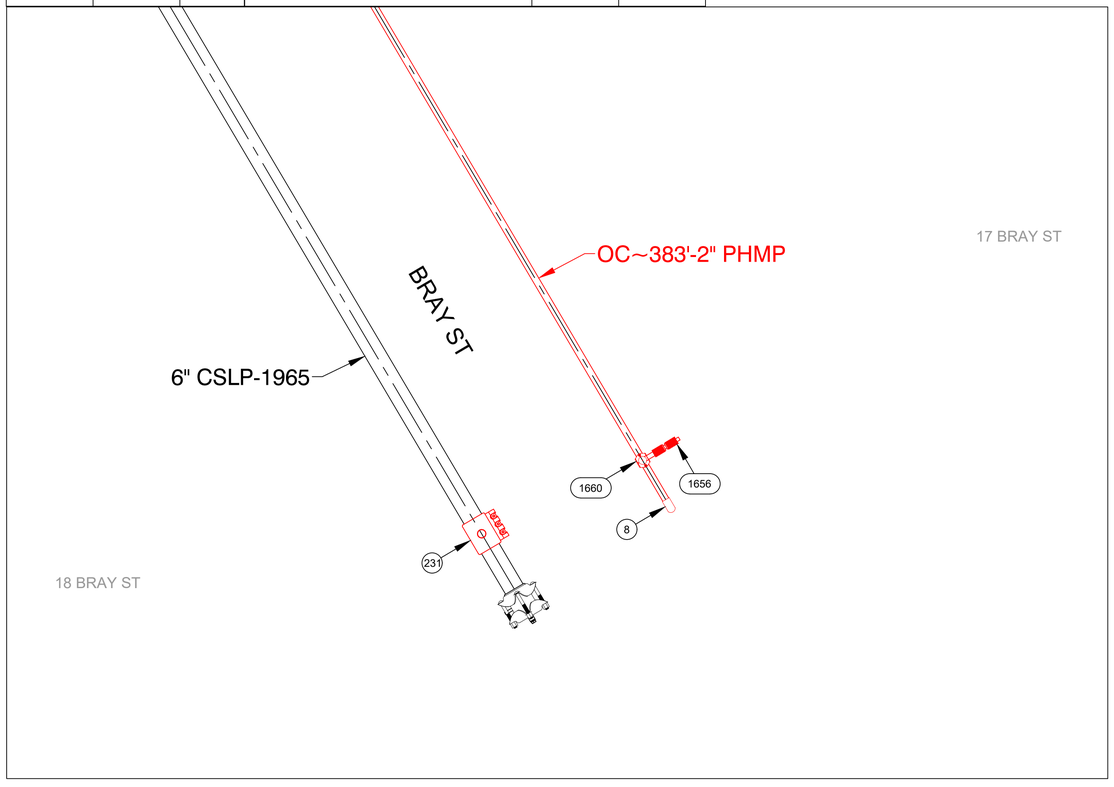
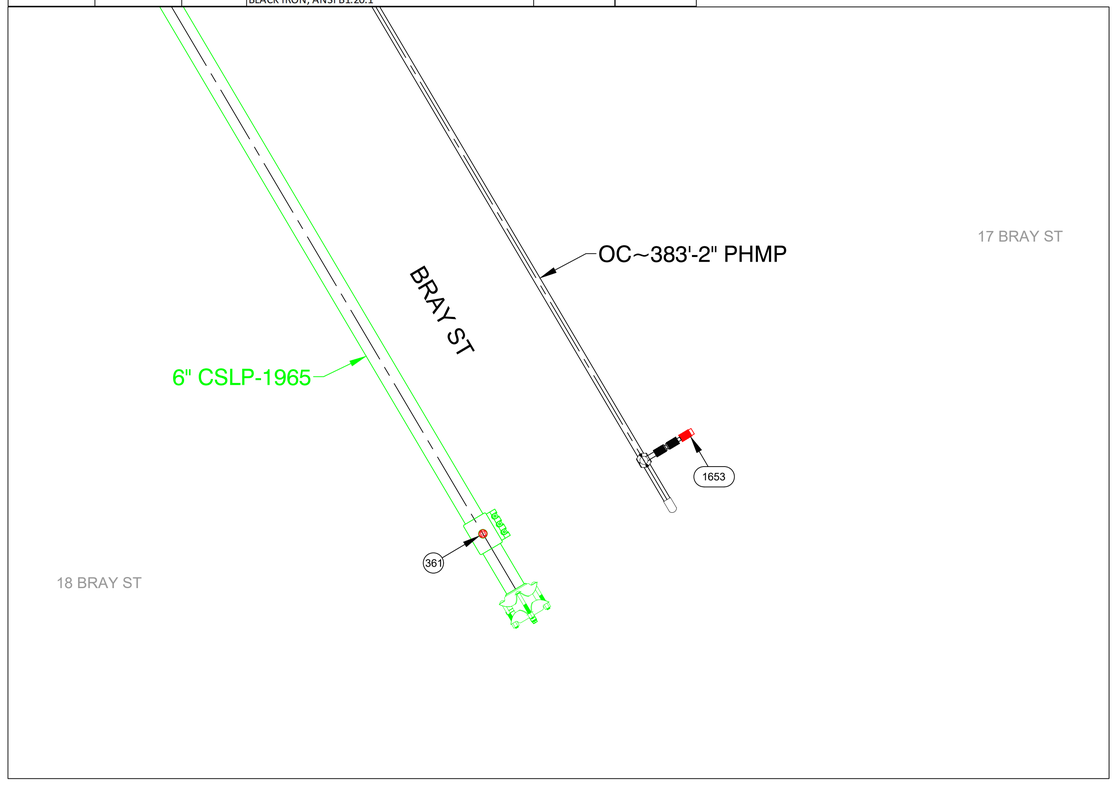
| JEAN DRIVE, INDIAN ORCHARD | | | | | DETAIL "J" PREPARATORY |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 1656 | MCJUREMA-000 | 620089 | FITTING,COUPLING, PIPE, 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 |
| 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 |
| 8 | 63078024 | 542572 | CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 1 | EA |




PREPARATORY TIE-IN DETAIL J
NOT TO SCALE

| JEAN DRIVE, INDIAN ORCHARD | | | | | DETAIL "J" 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 J
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E.
2024.08.26 08:14:33-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 16 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-16 | 0 |

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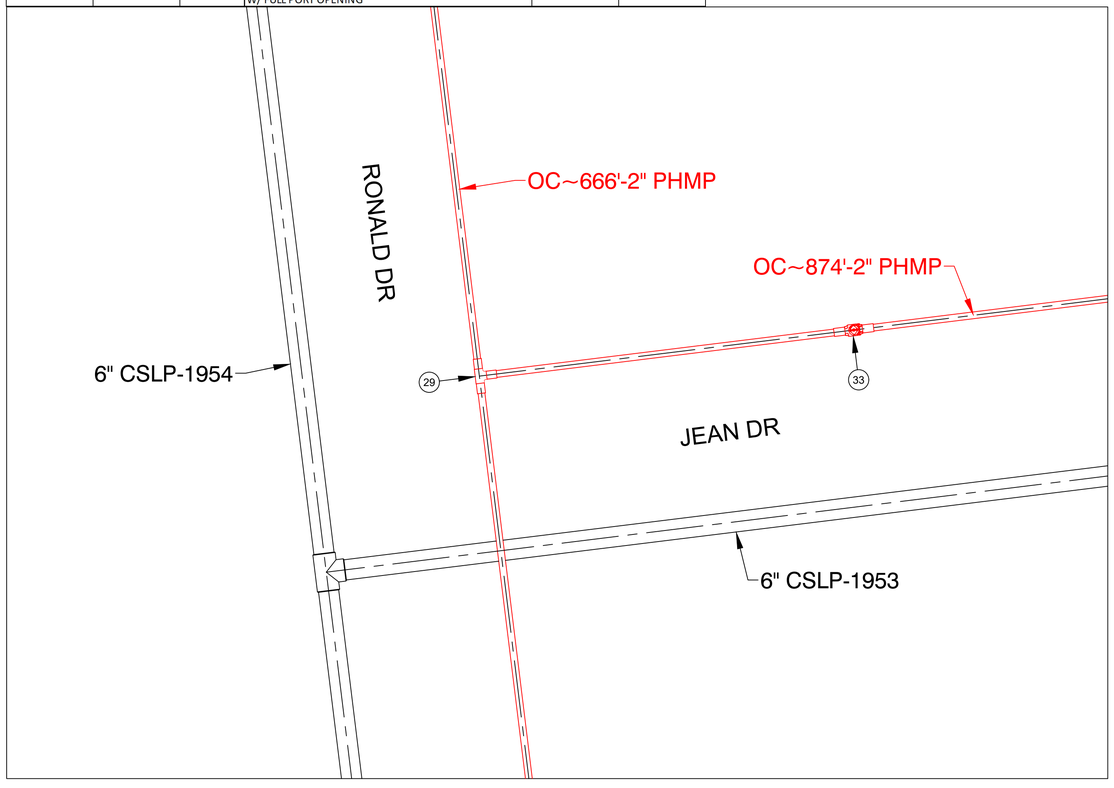
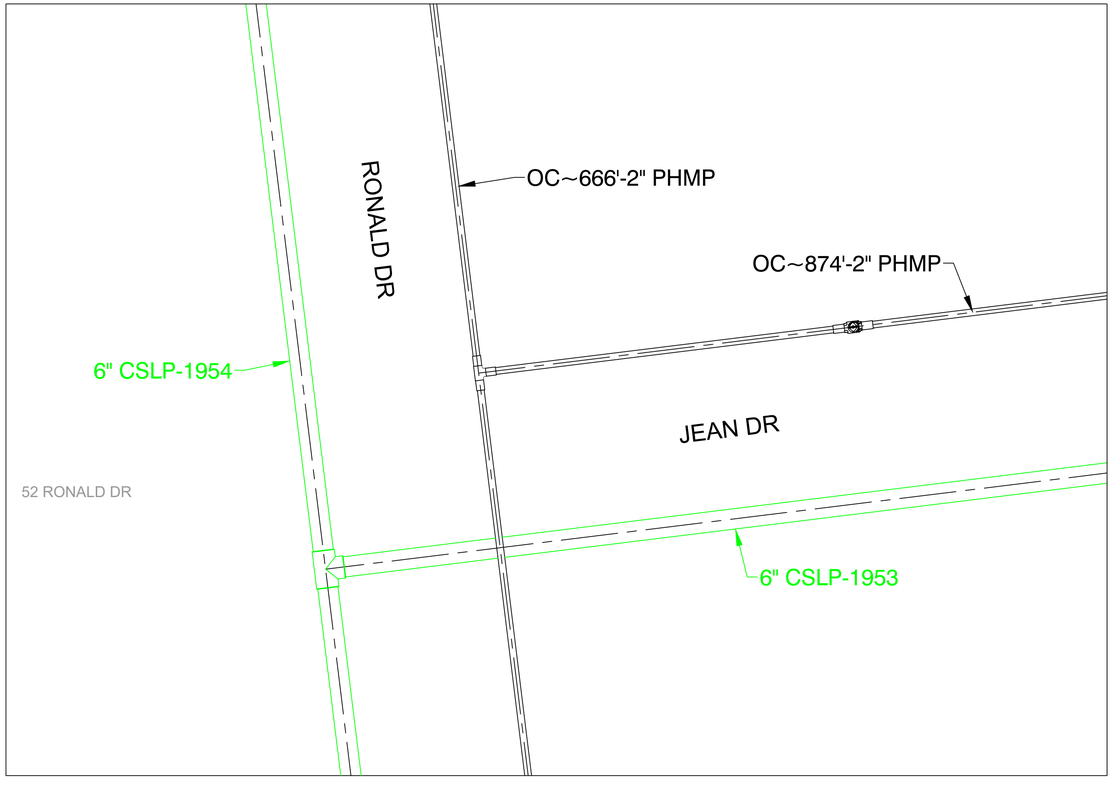
| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "K" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 29 | 63078441 | 560705 | TEE,PIPE, 2 IN IPS SDR 11, 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 K
NOT TO SCALE




FINAL TIE-IN DETAIL K
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061 PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.08.26 08:14:33-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 17 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-17 | 0 |

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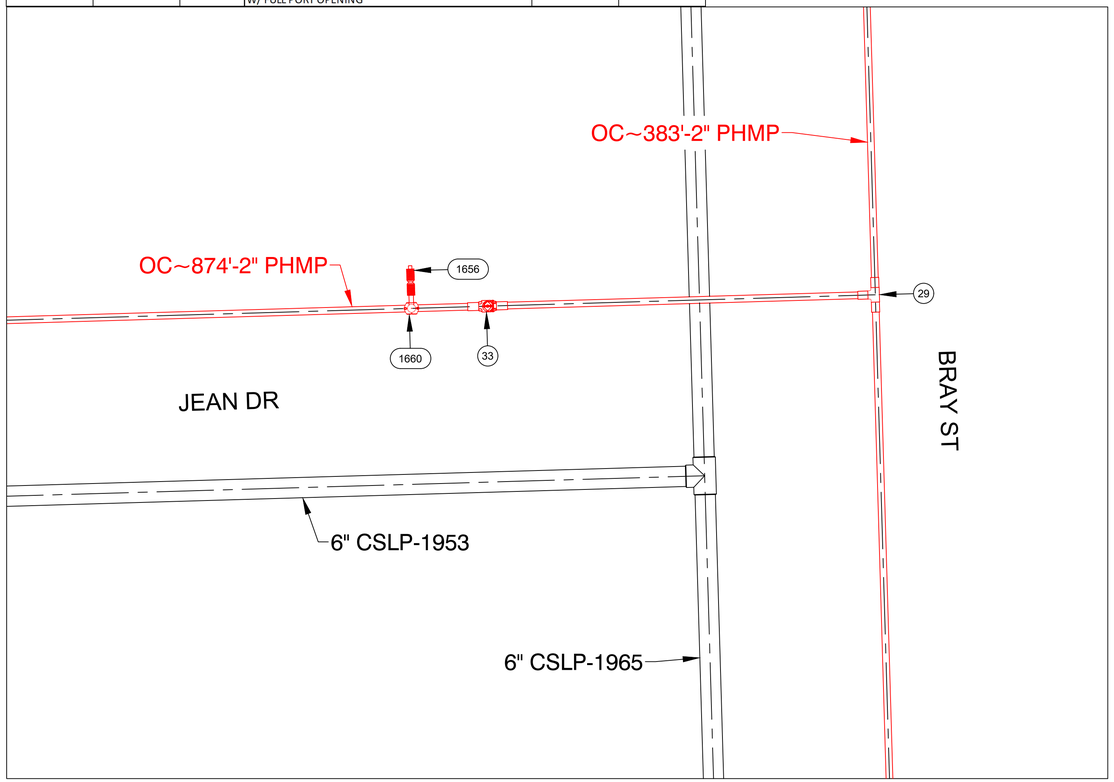
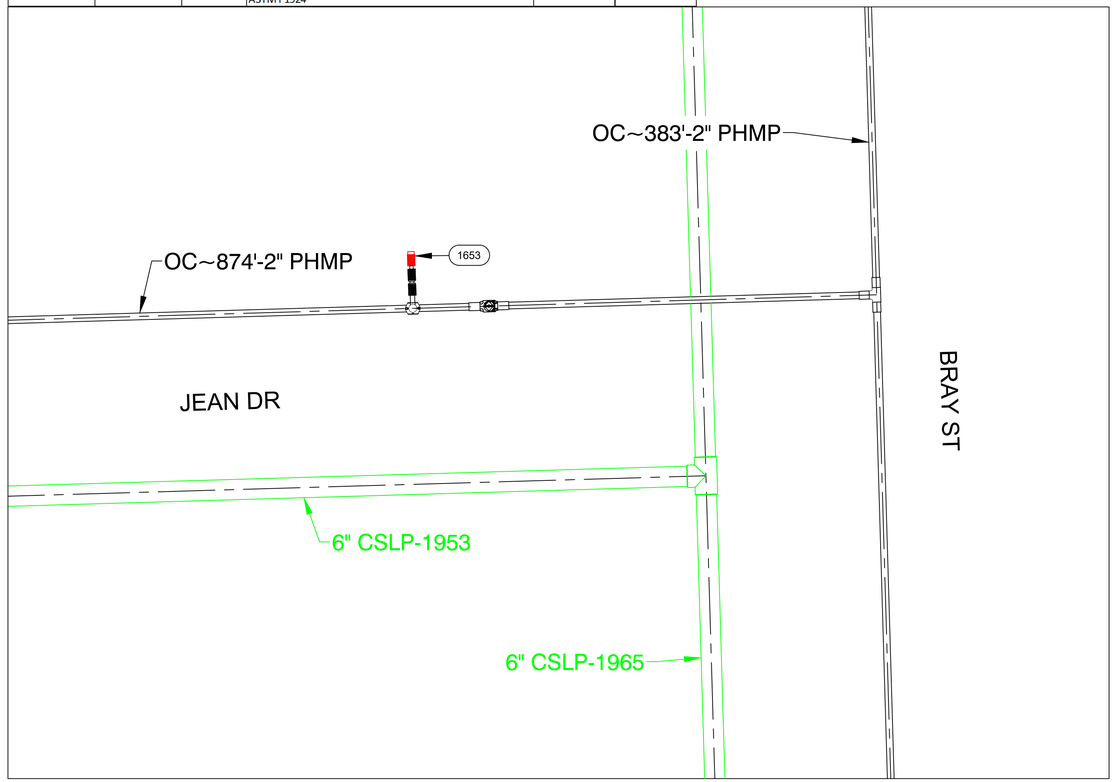
Attachment: Jean Drive - Pro Drawing Rev0 - PE Stamped (8534 : EVERSOURCE - Jean Dr.)

| JEAN DRIVE, INDIAN ORCHARD | | | | | DETAIL "L" 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 |
| 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 L
NOT TO SCALE

| JEAN DRIVE, INDIAN ORCHARD | | | | | DETAIL "L" 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 L
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061 PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.08.26 08:14:34-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| | | | |
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 18 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-18 | 0 |

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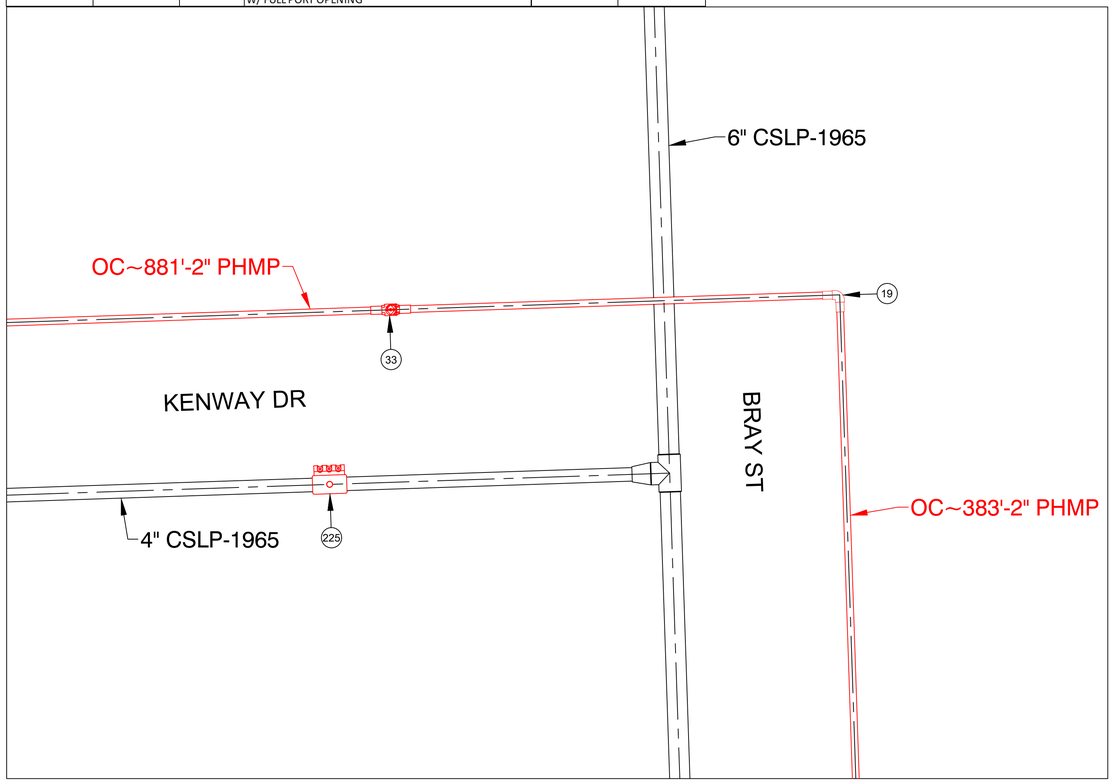
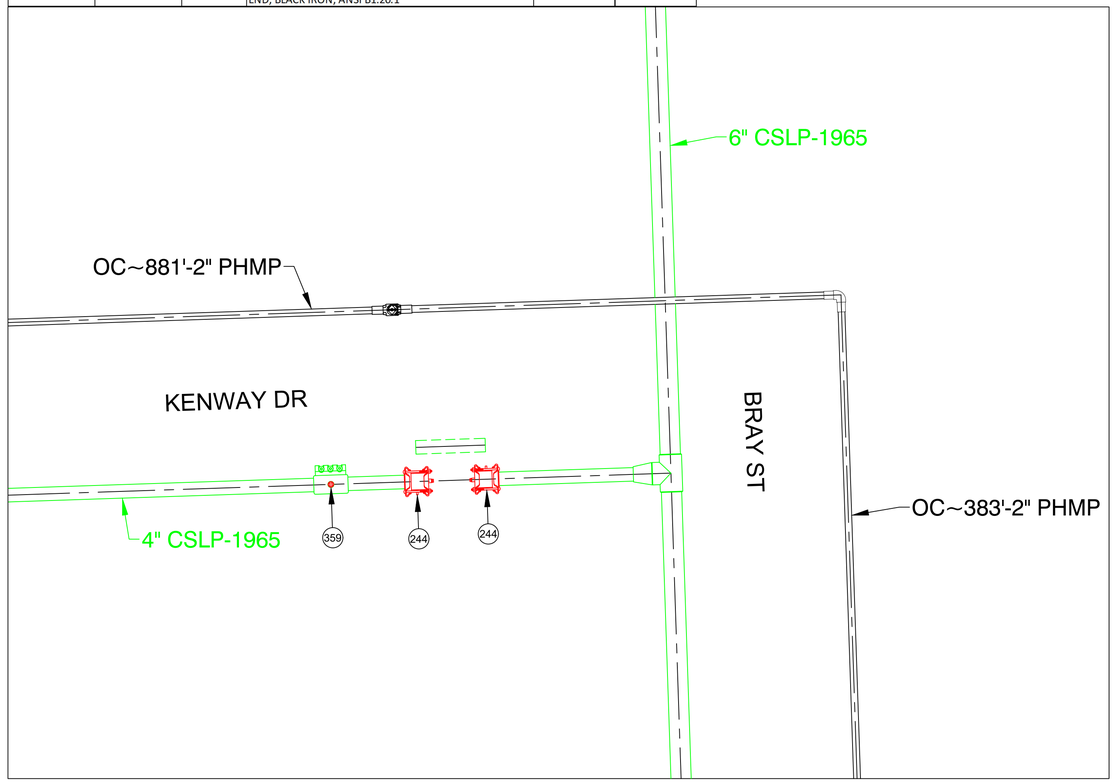
| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "M" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 19 | 63078117 | 545367 | ELBOW,PIPE, 90 DEG, 2 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 1 | EA |
| 225 | 63462107 | 543028 | CLAMP,PIPE, REPAIR, 4 IN IPS, SS, W/1-1/4 IN TAP | 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 M
NOT TO SCALE

| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "M" FINAL | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 244 | 63481691 | 578184 | FITTING,COUPLING, VENTED, INSULATED, 4 IN, FOR STEEL PIPE | 2 | EA |
| 359 | 19080285 | 554877 | PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 1 | EA |




FINAL TIE-IN DETAIL M
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061 PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E. 2024.08.26 08:14:34-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 19 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-19 | 0 |

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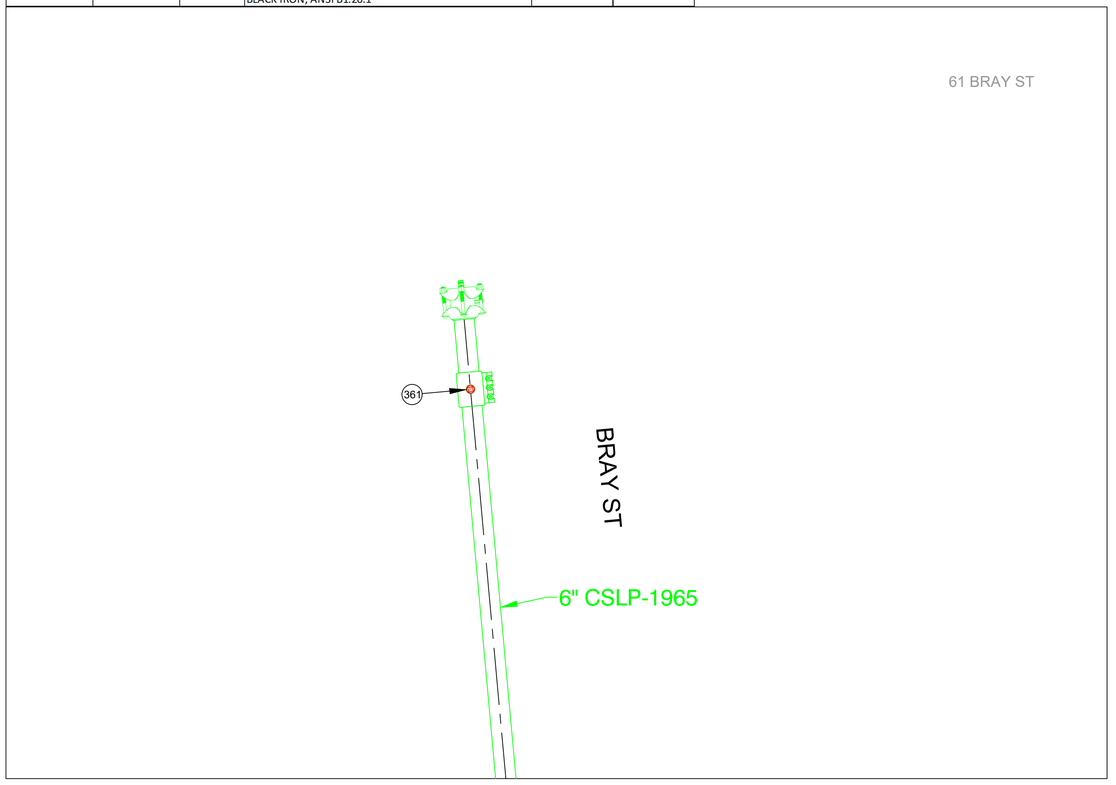
| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "N" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 231 | 63462157 | 578003 / 543029 | 6 X 9 X 2 OUT MUELLER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

PREPARATORY TIE-IN DETAIL N
NOT TO SCALE

| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "N" 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 N
NOT TO SCALE

ISSUED FOR CONSTRUCTION

DANIEL D'ELETTO, P.E.
2024.08.26 08:14:35-04'00'

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215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088

Know what's below. Call before you dig.

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 20 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-20 | 0 |

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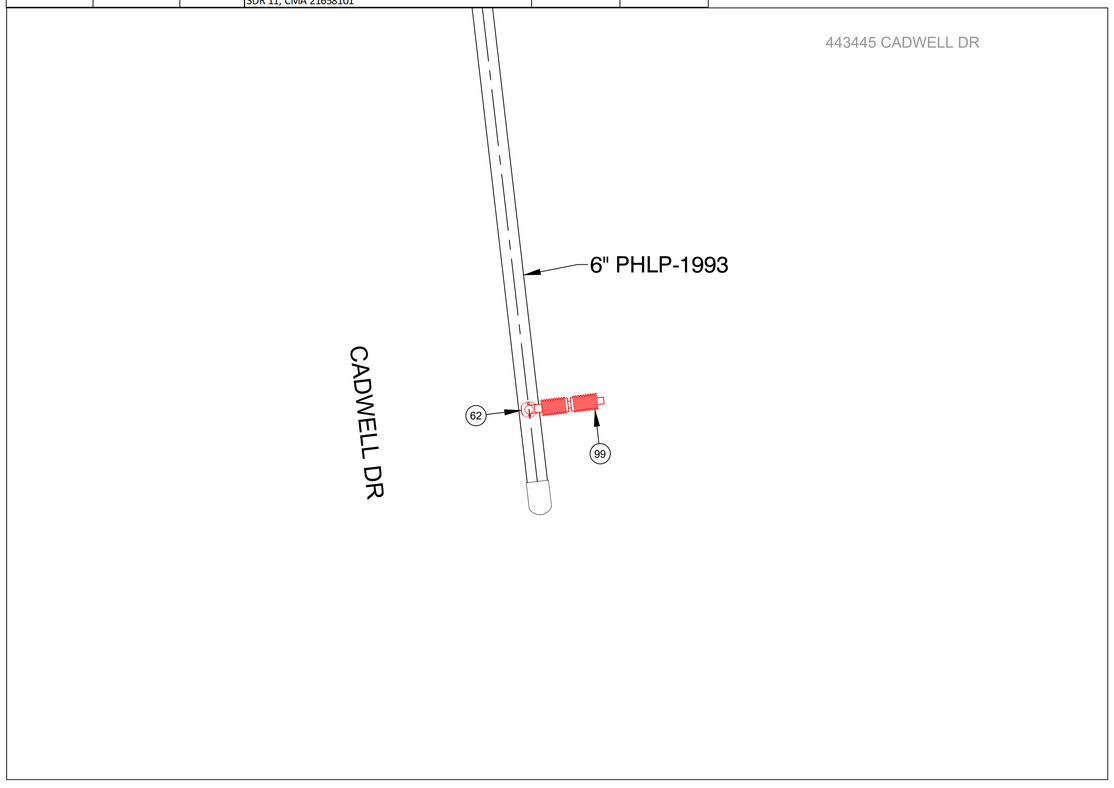
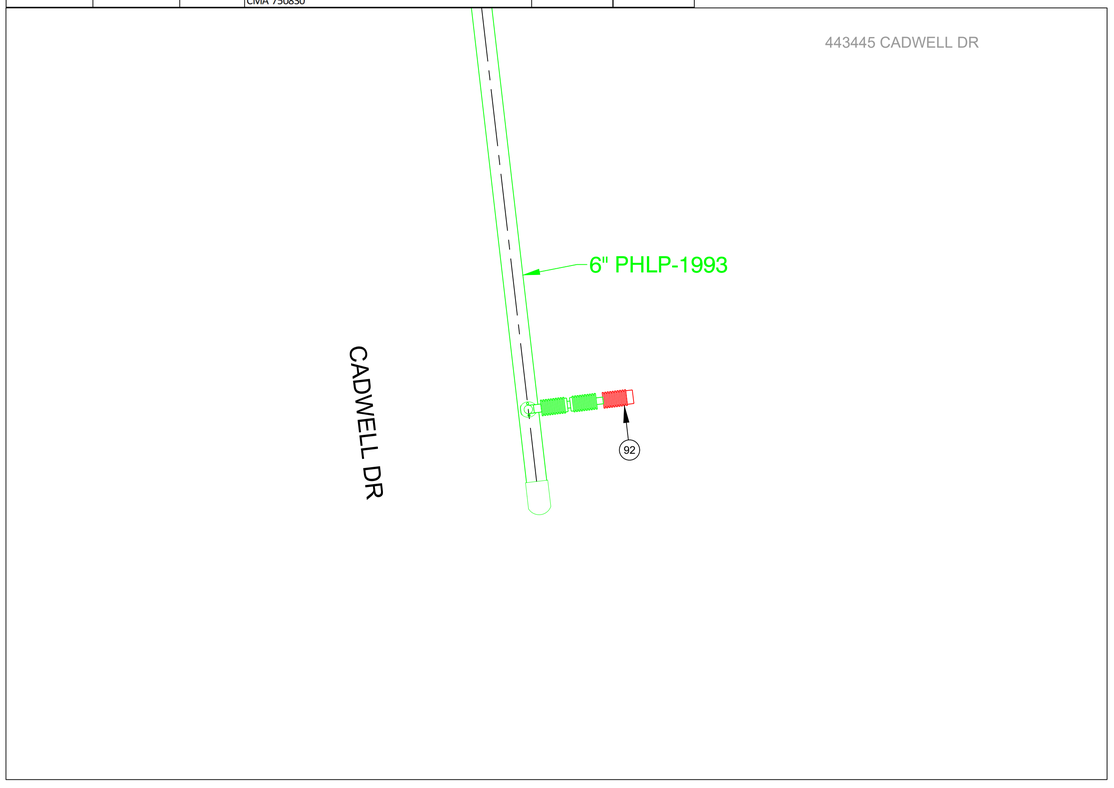
| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "O" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 62 | 63051389 | 500870 | TEE,PIPE, 6 X 2 IN IPS , ELECTROFUSION, PLASTIC, P100, W/ 1.8 IN PERF, 5/BOX | 1 | EA |
| 99 | 63424109 | 610772 | FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101 | 1 | EA |




PREPARATORY TIE-IN DETAIL O
NOT TO SCALE

| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "O" 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 O
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO CIVIL No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E.
2024.08.26 08:14:35-04'00'

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

| No. | Description | Date | Dw/Ck |
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| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 21 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-21 | 0 |

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Aug 23, 2024 - 7:46pm
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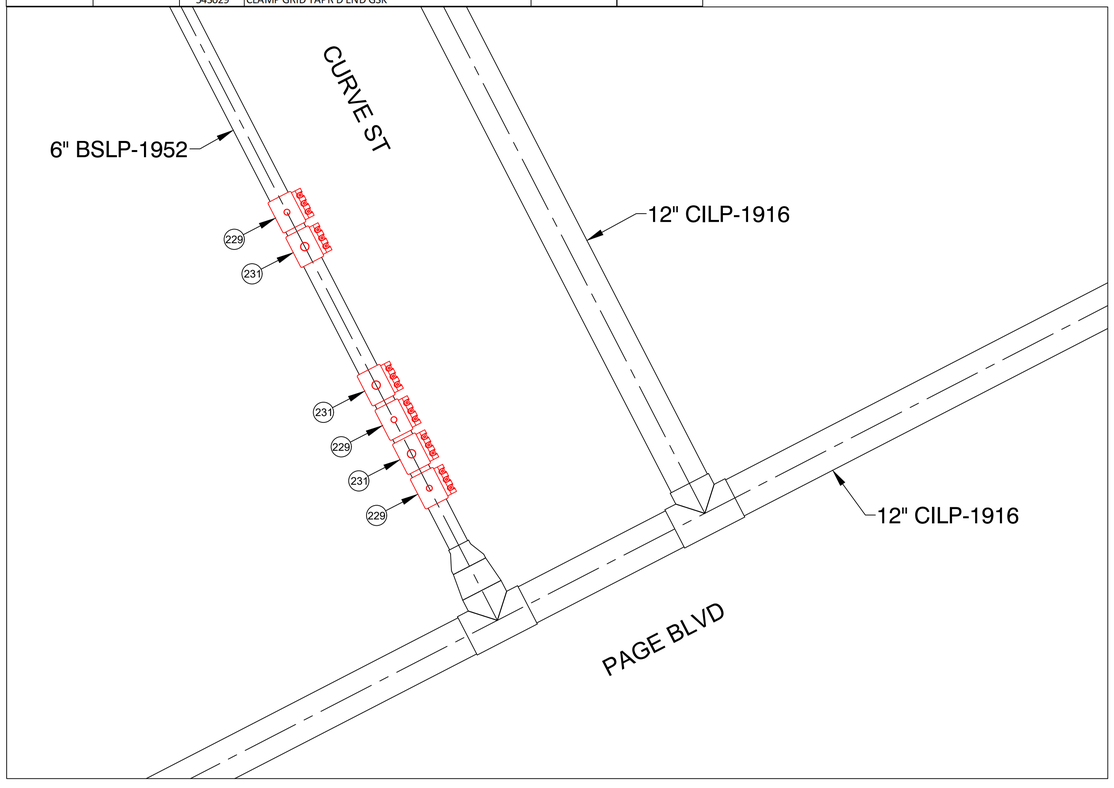
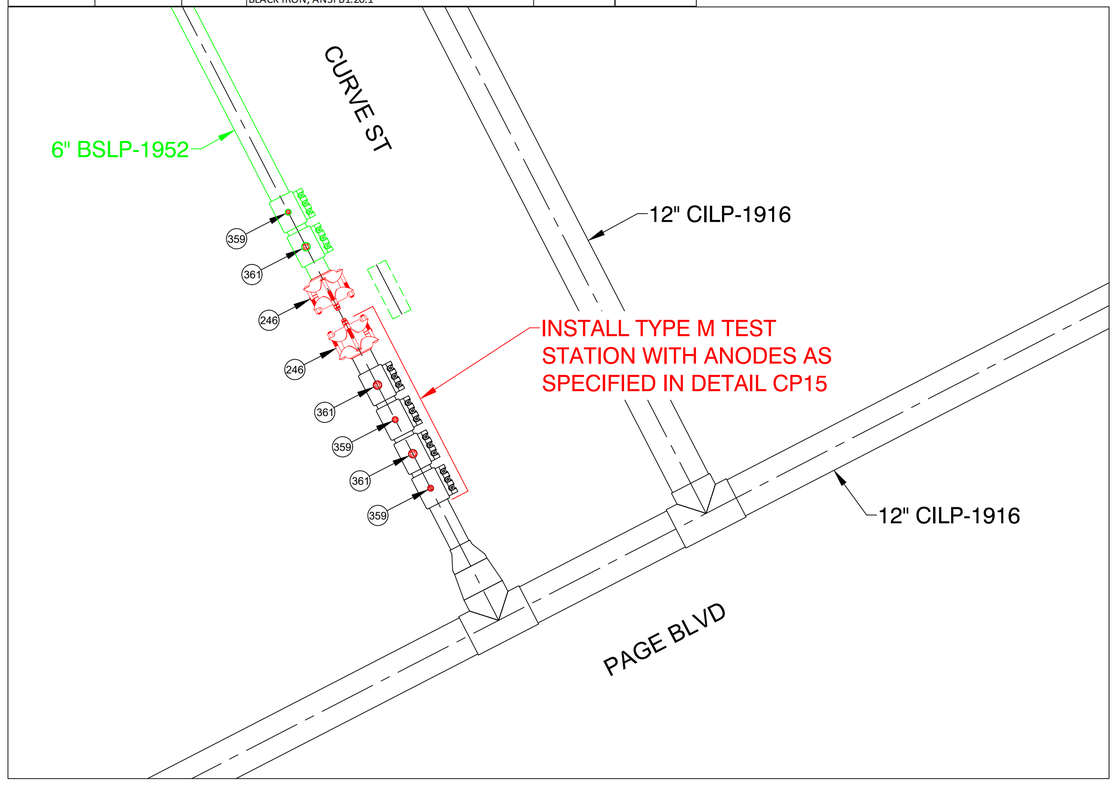
| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "P" PREPARATORY | |
|---|---|---|---|---|---|
| REQUIRED BILL OF MATERIALS | | | | | |
| Item Number | MRC Stock Number | Maximo Part Number | Description | Quantity | Units |
| 229 | 63462245 | 543029 | CLAMP,PIPE, REPAIR, 6 IN IPS, SS, W/1-1/4 IN TAP | 3 | EA |
| 231 | 63462157 | 578003 / 543029 | 6 X 9 X 2 OUT MUELLER 509-09-0655 100# 1 SECT REPAIR CLAMP GRID TAPR'D END GSK | 3 | EA |




PREPARATORY TIE-IN DETAIL P
NOT TO SCALE

| JEAN DRIVE, INDIAN ORCHARD | | | | DETAIL "P" 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 | 2 | EA |
| 359 | 19080285 | 554877 | PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 3 | EA |
| 361 | 19080340 | 554878 | PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 3 | EA |




FINAL TIE-IN DETAIL P
NOT TO SCALE

ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
DANIEL D'ELETTO
CIVIL
No. 55061
PROFESSIONAL ENGINEER
DANIEL D'ELETTO, P.E.
2024.08.26 08:14:36-04'00'

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| 0 | ISSUED FOR CONSTRUCTION | 8/14/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 22 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-22 | 0 |

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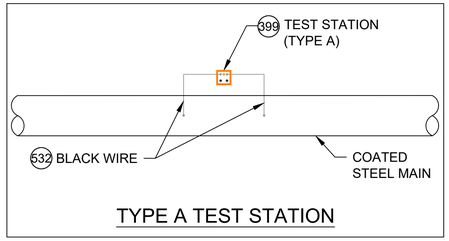
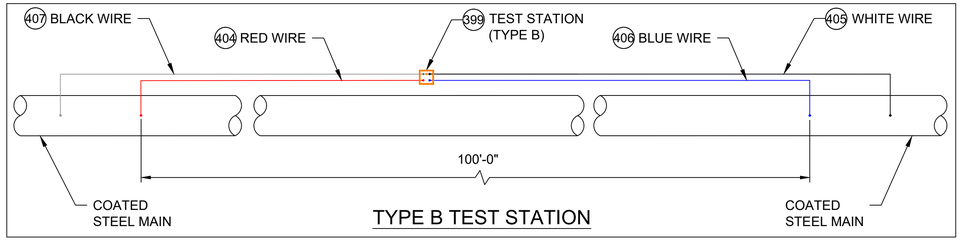


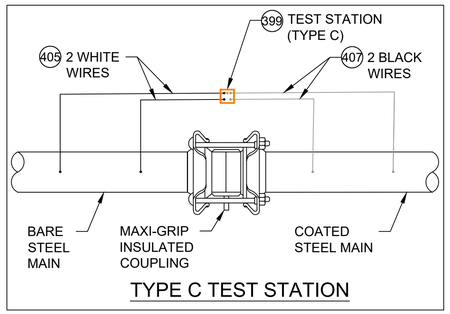

TYPE A TEST STATION

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



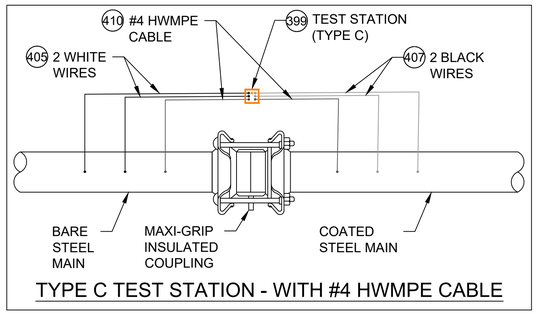

TYPE B TEST STATION

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



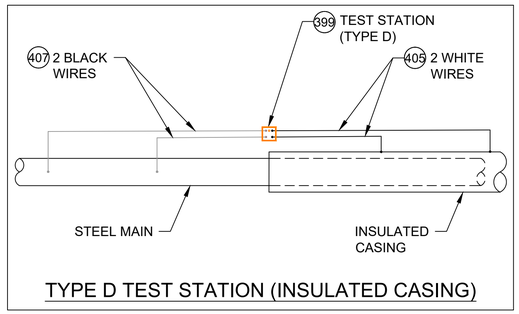

TYPE C TEST STATION

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



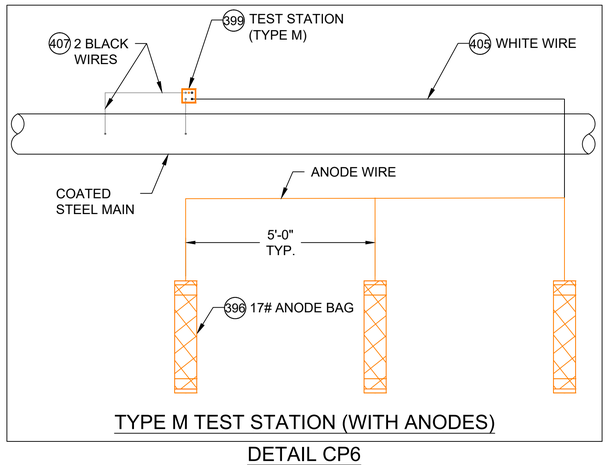

TYPE C TEST STATION - WITH #4 HWMPE CABLE

DETAIL CP4
SCALE: 1/2" = 1'-0"



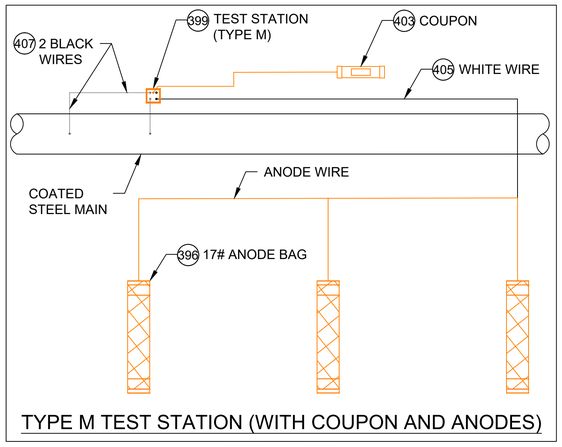

TYPE D TEST STATION (INSULATED CASING)

DETAIL CP5
SCALE: 1/2" = 1'-0"



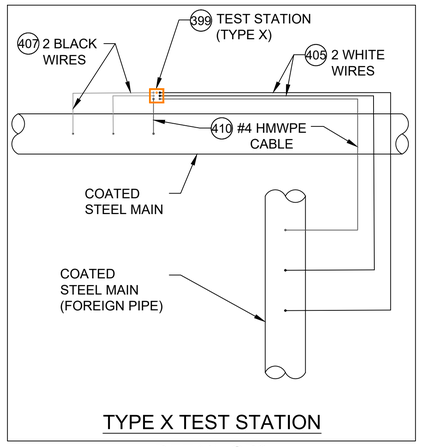

TYPE M TEST STATION (WITH ANODES)

DETAIL CP6
SCALE: 1/2" = 1'-0"



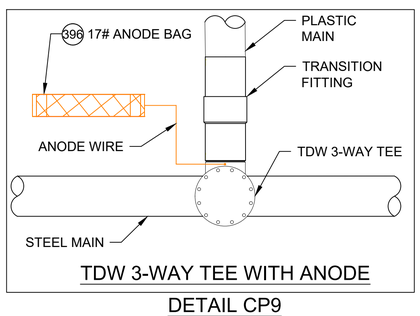

TYPE M TEST STATION (WITH COUPON AND ANODES)

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



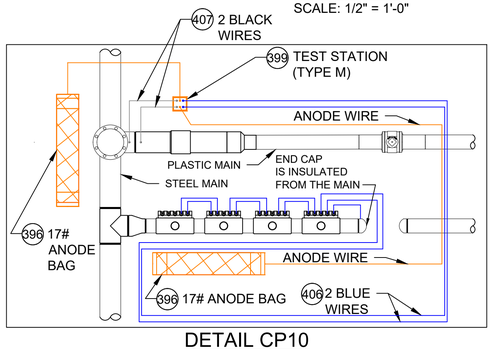

TYPE X TEST STATION

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

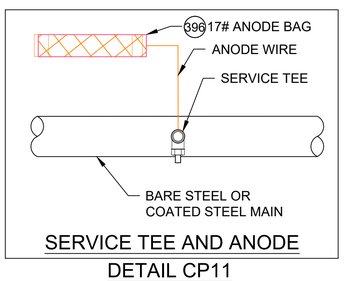



TDW 3-WAY TEE WITH ANODE

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

| 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, 0F 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 | | |

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA
PROJECT # 25EG010 / WORK ORDER # 16660140
DETAILS, NOTES AND BILL OF MATERIALS

SCALE: NTS SHEET 23 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-23 | 0 |

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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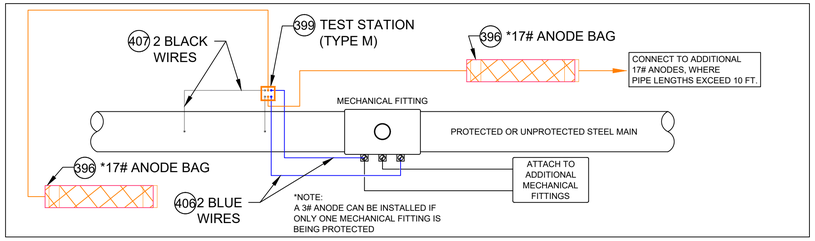
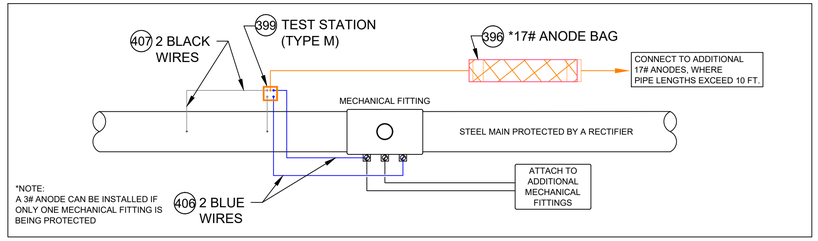



## TEST STATION CONNECTION DETAILS FOR MECHANICAL FITTINGS INSTALLED ON A STEEL MAIN

## DETAIL CP12

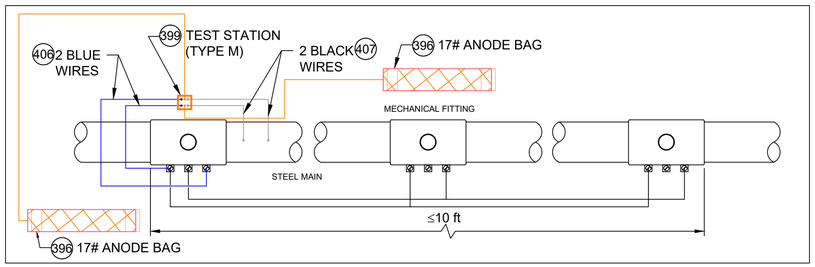
SCALE: 1/2" = 1'-0"




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

## DETAIL CP13

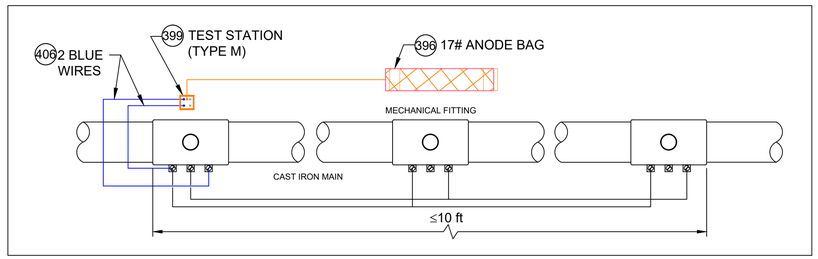
SCALE: 1/2" = 1'-0"




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

## DETAIL CP14

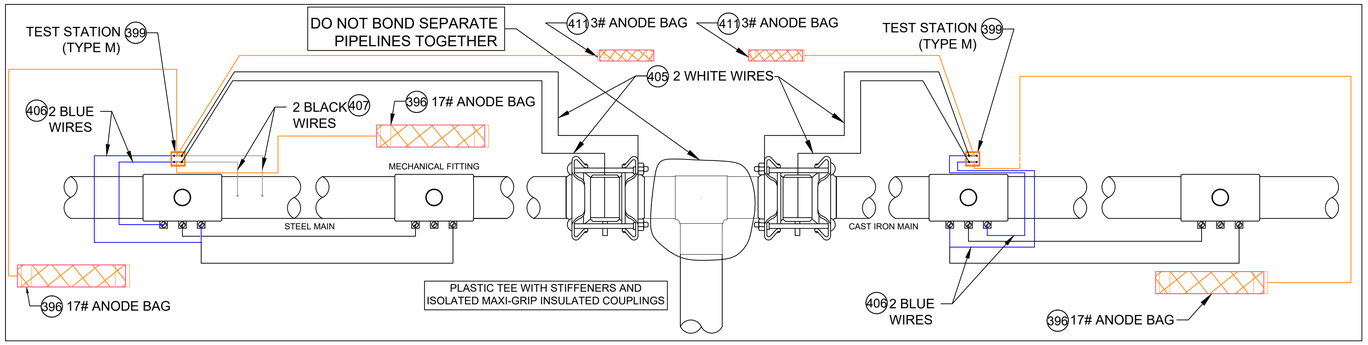
SCALE: 1/2" = 1'-0"




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

## DETAIL CP15

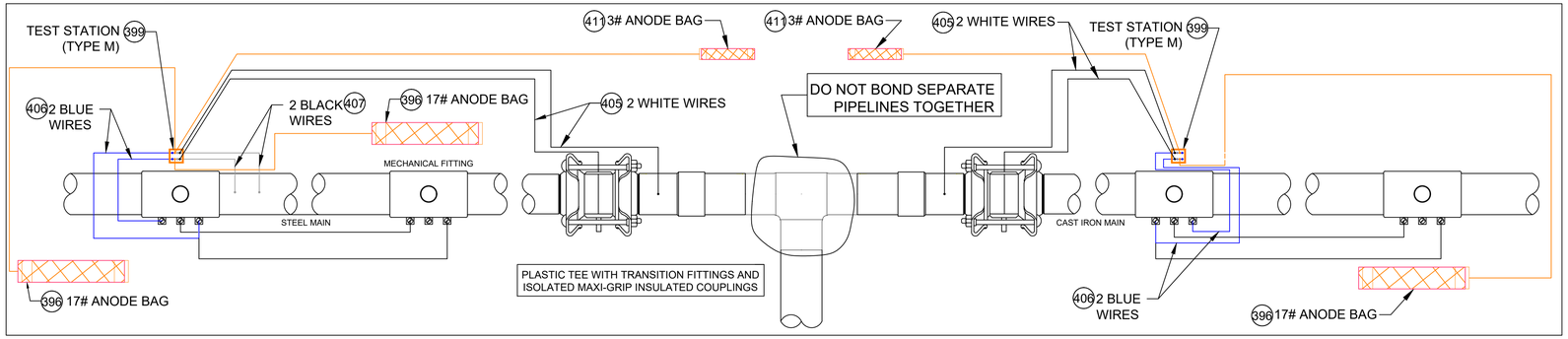
SCALE: 1/2" = 1'-0"




## 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, 0F 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: 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

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA

PROJECT # 25EG010 / WORK ORDER # 16660140

DETAILS, NOTES AND BILL OF MATERIALS

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

SCALE: NTS SHEET 24 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-24 | 0 |

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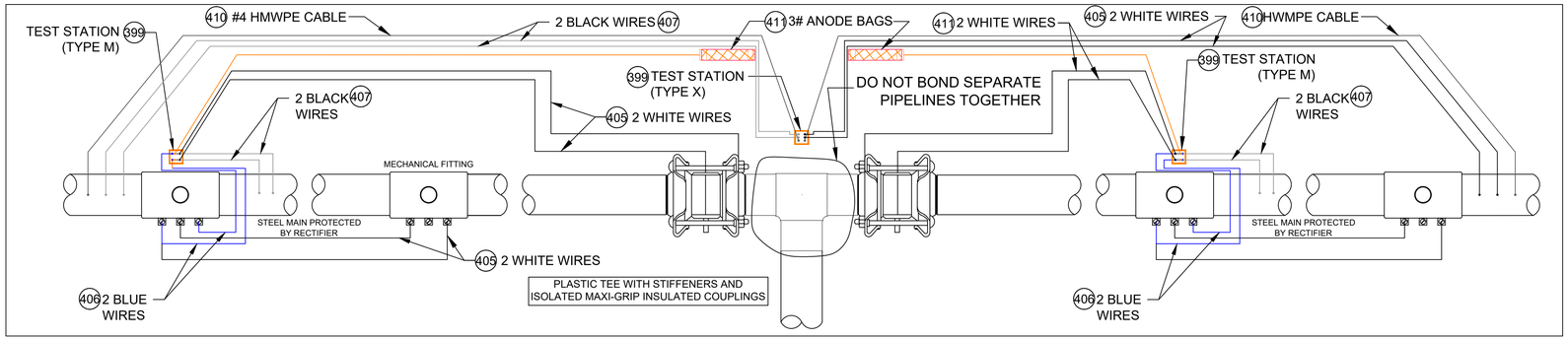
Aug 23, 2024 - 7:46pm




## 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"

### 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, 0F 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: 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 |
|---|---|---|---|
| | | | |
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| | | | |
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| | | | |

Revision/Status

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA

PROJECT # 25EG010 / WORK ORDER # 16660140

DETAILS, NOTES AND BILL OF MATERIALS

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

SCALE: NTS SHEET 25 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-25 | 0 |

EGMA DRAWING TEMPLATE - 02-09-2023
Jean Drive - Pro Drawing Rev0.dwg
C:\Users\kquinton\AppData\Local\Temp\AcPublish_27980\
Aug 23, 2024 - 7:46pm
Attachment: Jean Drive - Pro Drawing Rev0 - PE Stamped (8534 : EVERSOURCE - Jean Dr.)

Jean Drive - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-09-2023
C:\Users\kquinton\AppData\Local\Temp\AcPublish_27980\

Attachment: Jean Drive - Pro Drawing Rev0 - PE Stamped (8534 : EVERSOURCE - Jean Dr.)

| No. | Description | Date | Dw/Ck |
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Revision/Status

JEAN DRIVE - GSEP, INDIAN ORCHARD, MA

PROJECT # 25EG010 / WORK ORDER # 16660140

PLAN

SCALE: NTS SHEET 26 OF 26

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| KMQ 6/5/2024 | AM 7/15/2024 | MA-SPR-PIP-25-008-26 | 0 |

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

CITY OF SPRINGFIELD, MASSACHUSETTS

March 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 Eversource-Gas of Massachusetts, dated November 7, 2024, to install underground gas facilities on Curve St, Watling St, Ivan St, Cadwell Dr., Ronald Dr., Kenway Dr., Jean Dr., and Bray St. to upgrade to medium-pressure and retire low-pressure cast iron gas infrastructure; Jean Dr. 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 March 4, 2025, at 3:30 P.M. at the corner of Page Blvd and Curve Street 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 Jean Dr (8534 : EVERSOURCE - Jean Dr.)

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.

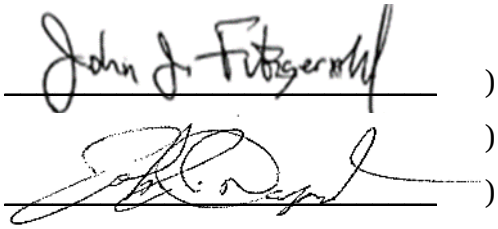
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

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

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Attachment: Report Jean Dr (8534 : EVERSOURCE - Jean Dr.)

**City Council**
36 Court Street
Springfield, MA 01103

**SCHEDULED**

**PETITION (ID # 8535)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8535 A

# EVERSOURCE -Brickett Street

## 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 a section of Pine Point Neighborhood in Springfield MA to install medium-pressure and retire low-pressure cast iron gas infrastructure.

**WHEREAS,** said petition Brickett Street was referred to the Board of Public Works on December 19, 2024; and

**WHEREAS,** On February 13, 2025, a Notice of a Public Hearing on Brickett Street to be held on February 27, 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 27, 2025, the Board of Public Works reported thereon that, after careful consideration of the petition to install underground gas facilities on Davenport Street and Brickett Street. Starting with four (4") inches of pipe on Harvey Street., running an easterly direction on Davenport Street one thousand two hundred (1,200') feet, to Cobb Street and from Harvey Street with two (2") inches of pipe on Brickett Street., running an easterly direction eight hundred twenty-five (825') feet, to Curtis Street; all substantially shown on a plan attached with the project name:

Brickett Street

Consisting of nineteen (19) 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 Brickett Street 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.

CITY OF SPRINGFIELD, MASSACHUSETTS

February 27, 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 19, 2024, to install underground gas facilities on a section of Pine Point Neighborhood. Starting with four (4") inches of pipe on Harvey Street., running an easterly direction on Davenport Street one thousand two hundred (1,200') feet, to Cobb Street and from Harvey Street with two (2") inches of pipe on Brickett Street., running an easterly direction eight hundred twenty-five (825') feet, to Curtis Street, 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 27, 2025, at 3:30 P.M. at the corner of Harvey Street and Brickett Street 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 Brickett ST (8535 : EVERSOURCE -Brickett Street)

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.

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BOARD OF PUBLIC WORKS

Attachment: Report City Council Brickett ST (8535 : EVERSOURCE -Brickett Street)

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\Data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP , 25EG006\Drawings\
Dec 18, 2024 - 4:32pm

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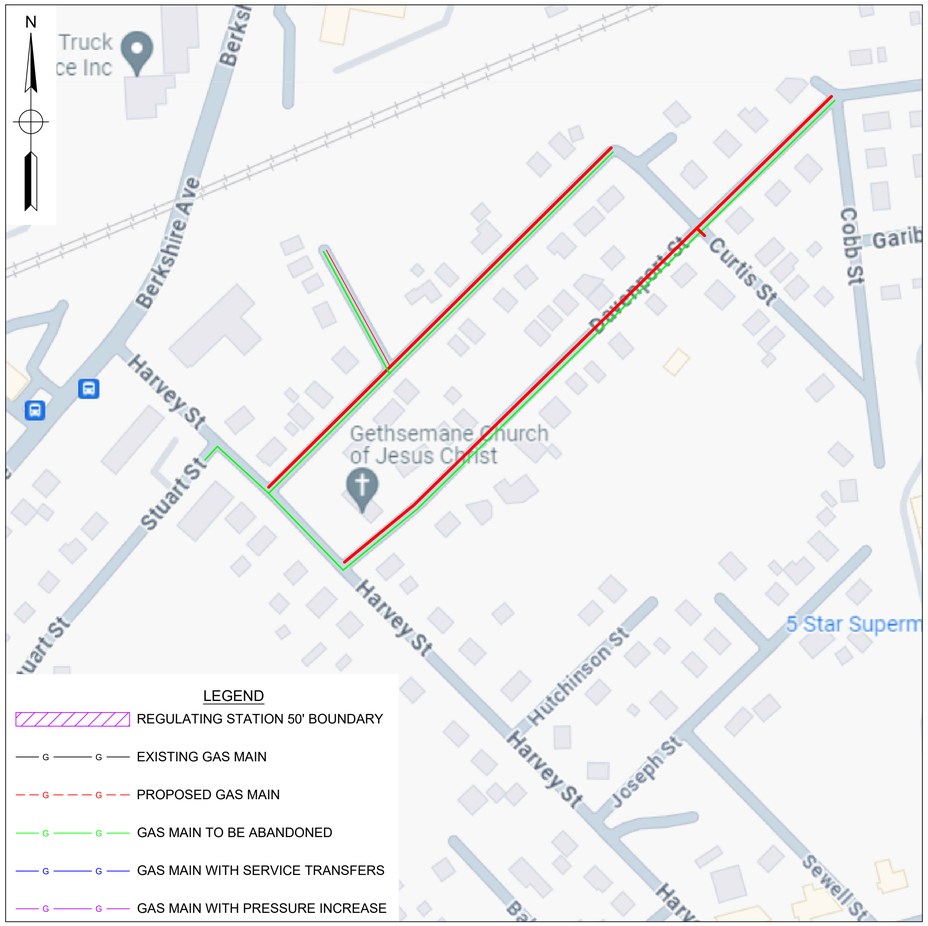
| SHEET # | TITLE |
|---|---|
| 01 OF 19 | COVER SHEET |
| 02 OF 19 | NOTES |
| 03 OF 19 | LEGEND |
| 04 OF 19 | PROJECT LOCATION PLAN |
| 05 OF 19 | PROJECT LOCATION PLAN |
| 06 OF 19 | PROJECT LOCATION PLAN |
| 07 OF 19 | MA PREPARATORY AND FINAL TIE-IN DETAILS |
| 08 OF 19 | MA PREPARATORY AND FINAL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


EVERSOURCE ENERGY




WORK SCOPE

**PROJECT SUMMARY TABLE**
**INSTALLATION INFORMATION**

| Work Type | LENGTH (FT) | SIZE (IN) | MAOP | MATERIAL |
|---|---|---|---|---|
| | | | | |
| INSTALL | 1,104' | 2'' | 60 psig - MP | HDPE |
| INSTALL | 1,200' | 4'' | 60 psig - MP | HDPE |
| INSTALL | 30' | 6'' | 60 psig - MP | HDPE |
| | | | | |
| | | | INSTALLATION TOTAL | 2,334' |
| | | | UPRATE/RETEST TOTAL | 0' |

**PROJECT SUMMARY TABLE**
**ABANDONMENT INFORMATION**

| LENGTH (FT) | SIZE (IN) | MAOP | ABANDONMENT CLASS |
|---|---|---|---|
| 146' | 4 | 14" WC | Protected CS (Non-GSEP) |
| 1,992' | 6 | 14" WC | CI-(GSEP) |
| 87' | 6 | 14" WC | Plastic (Non-GSEP) |
| 398' | 8 | 14" WC | Plastic (Non-GSEP) |
| | | | |
| | | GSEP ABANDONMENT SUBTOTAL | 1,992' |
| | | NON-GSEP ABANDONMENT SUBTOTAL | 631' |
| | | ABANDONMENT TOTAL | 2,623' |

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| 0 | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA
PROJECT # 25EG006 / WORK ORDER # 16854076
COVER SHEET

SCALE: 1"=30' ON 22"X34" SHEET 01 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM / 08/15/24 | RPB / 11/06/24 | MA-SPR-PIP-25-004-01 | 00 |

BRICKETT ST - GSEP, SPRINGFIELD, MA
PROJECT #25EG006
WORK ORDER #16854076

Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\Data\Shared\Data\Gas\ProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\

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.

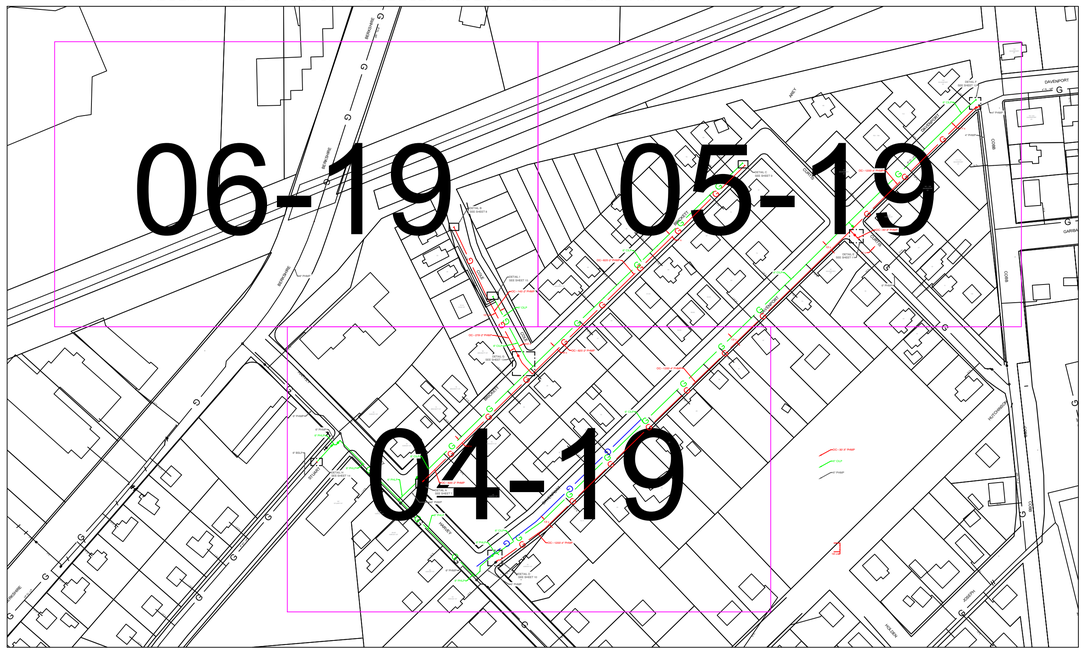
B. CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.

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.




OVERVIEW KEY MAP
NOT TO SCALE

**BRICKETT ST - GSEP, SPRINGFIELD** — **COMPLETE BOM**

**REQUIRED BILL OF MATERIALS**

| Item Number | Maximo Part Number | Description | Quantity | Units |
|---|---|---|---|---|
| 16 | 500855 | COUPLING, 4 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP | 1 | EA |
| 17 | 500856 | COUPLING, 6 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP | 3 | 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 | 4 | 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 |
| 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 |
| 14 | 503984 | COUPLING, 1 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP | 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 | 5 | 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 |
| 8 | 542572 | CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 2 | EA |
| 231 | 543029 | CLAMP,PIPE, REPAIR, 6 IN IPS, SS, W/2 IN TAP | 7 | EA |
| 23 | 545338 | ELBOW,PIPE, 45 DEG, 4 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 3 | 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 | 1200 | 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 | 30 | FT |
| 2 | 554022 | PIPE, 1/2 IN CTS X 0.090 IN THK WALL SDR 7, 5/8 IN OD, 500 FT LG COIL, POLYETHYLENE, PE3408/PE100 | 21 | FT |
| 361 | 554878 | PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 8 | 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 | 3 | EA |
| 30 | 560679 | TEE,PIPE, 4 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 1 | EA |
| 29 | 560705 | TEE,PIPE, 2 IN IPS SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 1 | EA |
| 288 | 560709 | TEE,PIPE, STEEL, NON-BLOWING, 3/4 IN WELD INLET X 1/2 CTS 0.090 IN THK WALL PLASTIC COMPRESSION OUTLET, 3/8 IN PERF | 2 | 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, | 3 | RL |
| 232 | 578022 | FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE | 1 | EA |
| 246 | 578185 | FITTING,COUPLING, VENTED, INSULATED, 6 IN, W/ END CAP, FOR STEEL PIPE, EZB6VIUMG | 1 | EA |
| 369 | 582852 | MARKER, BALL, 4 DIA, POLYETHYLENE SHELL, YELLOW, FOR MARKING THE LOCATION OF BURIED FACILITIES, QTY 30 TO A PAC | 3 | EA |
| 12 | 584982 | COUPLING, 1/2 IN CTS, ELECTROFUSION, HDPE, BLACK, ASTM F1055 , GFCP | 6 | 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 | 1104 | FT |
| 1639 | 604753 | TEE,PIPE, NON-BLOWING, 2 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 2 | EA |
| 1640 | 604755 | TEE,PIPE, NON-BLOWING, 4 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 2 | EA |
| 1641 | 604756 | TEE,PIPE, NON-BLOWING, 6 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 4 | EA |
| 43 | 610062 | BOX VALVE, EXTENTION, 18 X 24 IN LONG, CMA 4232860 | 3 | EA |
| 90 | 610757 | FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823 | 6 | EA |
| 84 | 610800 | SADDLE,PIPE, BRANCH, 4 IN X 4 IN, ELECTROFUSION TAPPING, HDPE, 4.7 MM SIN PIN, CMA 21838044 | 1 | EA |
| 1653 | 620808 | FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924 | 5 | EA |

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA
PROJECT # 25EG006 / WORK ORDER # 16854076
NOTES
SCALE:1"=30' ON 22"X34" SHEET 02 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-02 | 00 |

Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

## DRAWING LEGEND

### Gas Main Symbology

REGULATING STATION 50' BOUNDARY

EXISTING GAS MAIN — G — G —

PROPOSED GAS MAIN — G — G —

GAS MAIN TO BE ABANDONED — G — G —

GAS MAIN WITH SERVICE TRANSFERS — G — G —

GAS MAIN WITH PRESSURE INCREASE — G — G —

RIGHT-OF-WAY

ELECTRIC — E — E —

WATER LINE — W — W —

SEWER LINE — S — S —

TELEPHONE — T — T —

DRAIN LINE — D — D —

FENCE LINE — x — x — x — x — x — x —

### 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 |
| R | Single Customer Regulator |
| M | Meter |
| MR | Meter with Regulator |
| | Test Point (Station) |
| T | Gas Service Tie-over |
| R | Gas Service Replacement |
| MMO | Meter Move Out |

### Swing Tie Symbology

| | |
|---|---|
| T | Telephone Manhole |
| D | Drain Manhole |
| E | Electric Manhole |
| | Catch Basis |
| S | Sewer Manhole |
| | Fire Hydrant |
| | Utility Pole |
| | Property Marker |
| T | Telephone Pedestal |
| C | Television Pedestal |
| U | Unknown Manhole |
| | Water Box |
| | Water Gate |
| E | Electric Pedestal |
| | Iron Pin |
| | Light Pole |
| | INSIDE METER |
| | OUTSIDE METER |

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
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| | | | |
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

LEGEND

SCALE:1"=30' ON 22"X34" SHEET 03 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-03 | 00 |

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\Data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP- 25EG006\Drawings\
Dec 18, 2024 - 4:32pm
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg

EGMA DRAWING TEMPLATE - 02-28-2023

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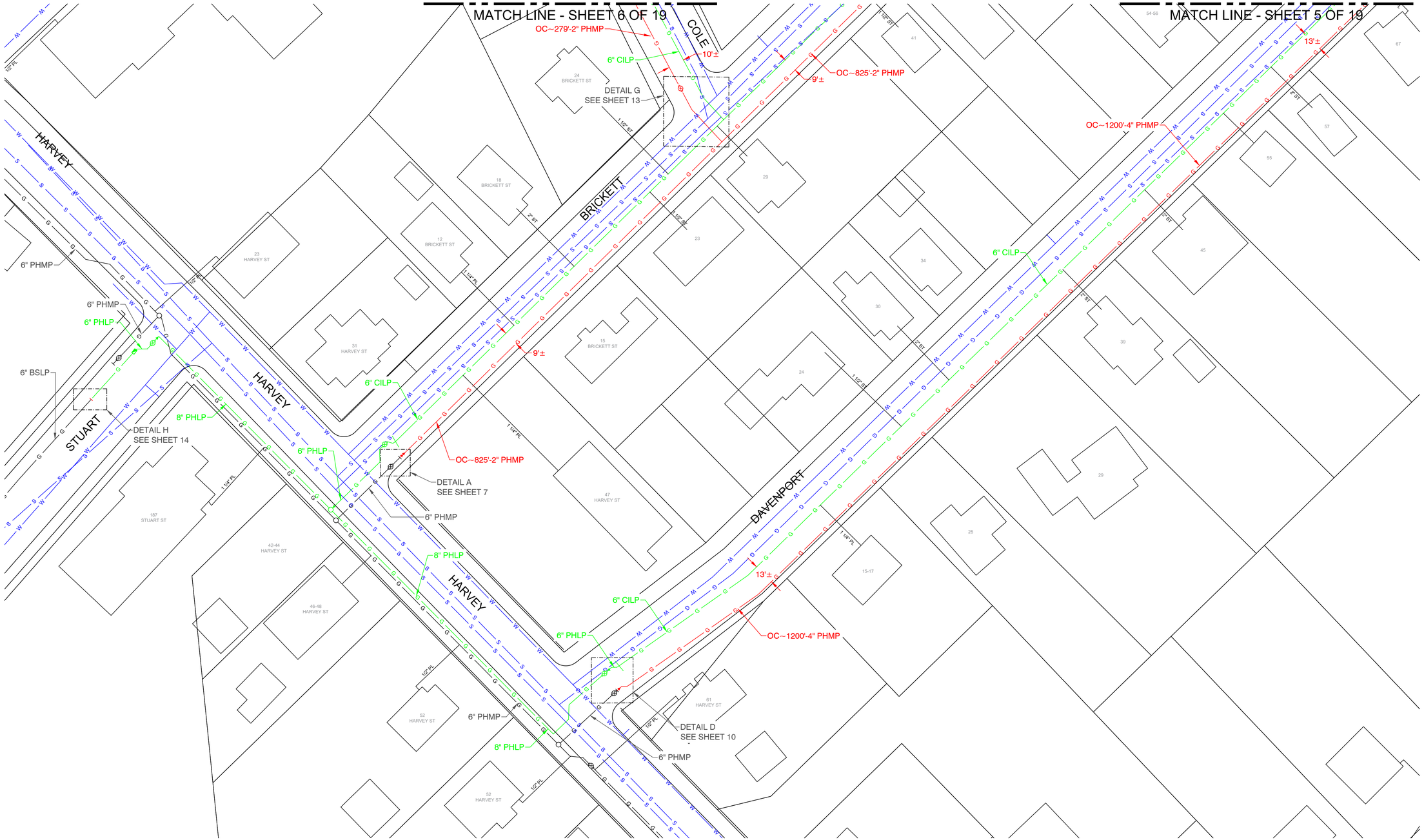
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

MATCH LINE - SHEET 6 OF 19

MATCH LINE - SHEET 5 OF 19

KEY MAP
SCALE: N.T.S.




| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

PROJECT LOCATION PLANS

SCALE: 1"=30' ON 22"X34" SHEET 04 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-04 | 00 |



Dec 18, 2024 - 4:33pm

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EGMA DRAWING TEMPLATE - 02-28-2023
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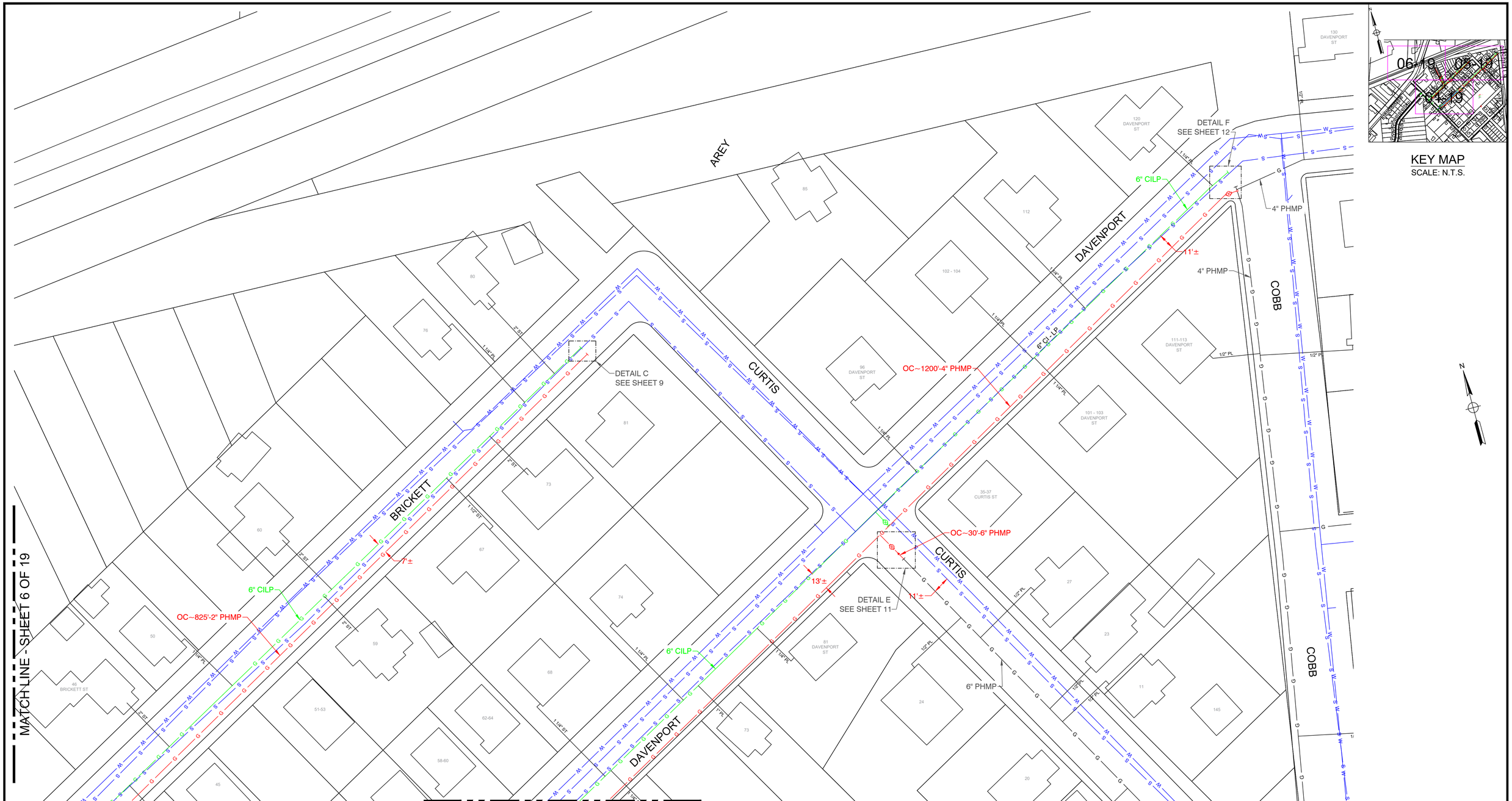





KEY MAP
SCALE: N.T.S.

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | DRAWING CREATED | 08/15/24 | RTM |
| | Revision/Status | | |

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA
PROJECT # 25EG006 / WORK ORDER # 16854076
PROJECT LOCATION PLANS
SCALE: 1"=30' ON 22"X34" SHEET 05 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-05 | 00 |

Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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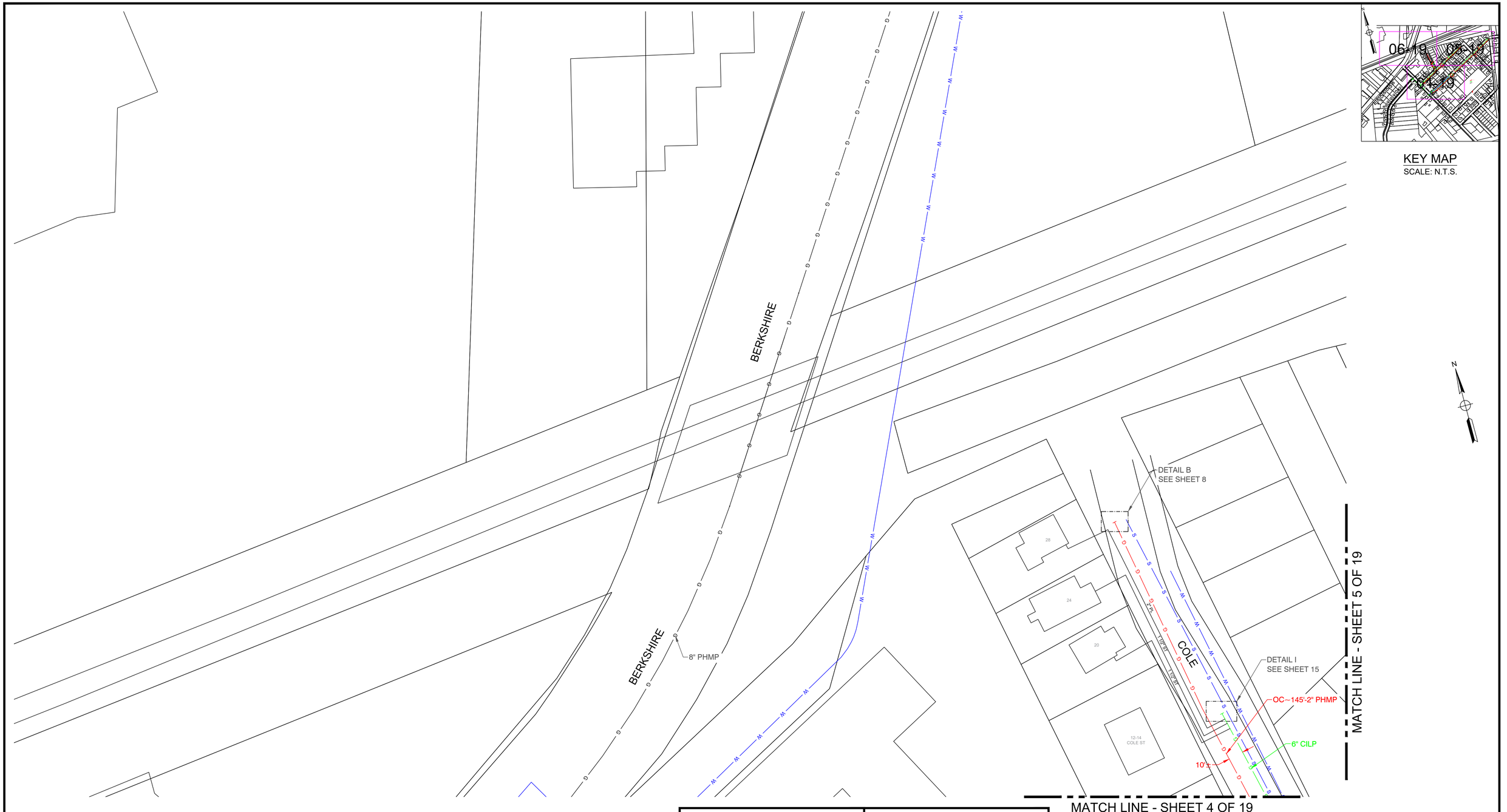






KEY MAP
SCALE: N.T.S.

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

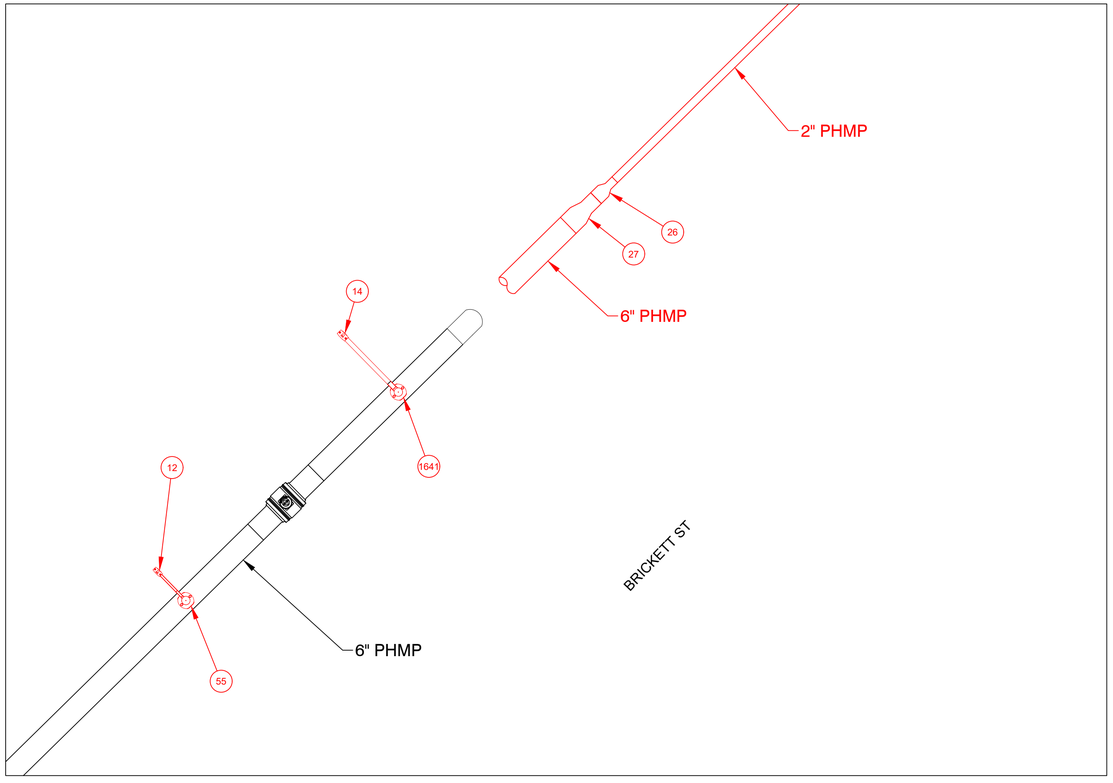
PROJECT LOCATION PLANS

SCALE: 1"=30' ON 22"X34" SHEET 06 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-06 | 00 |

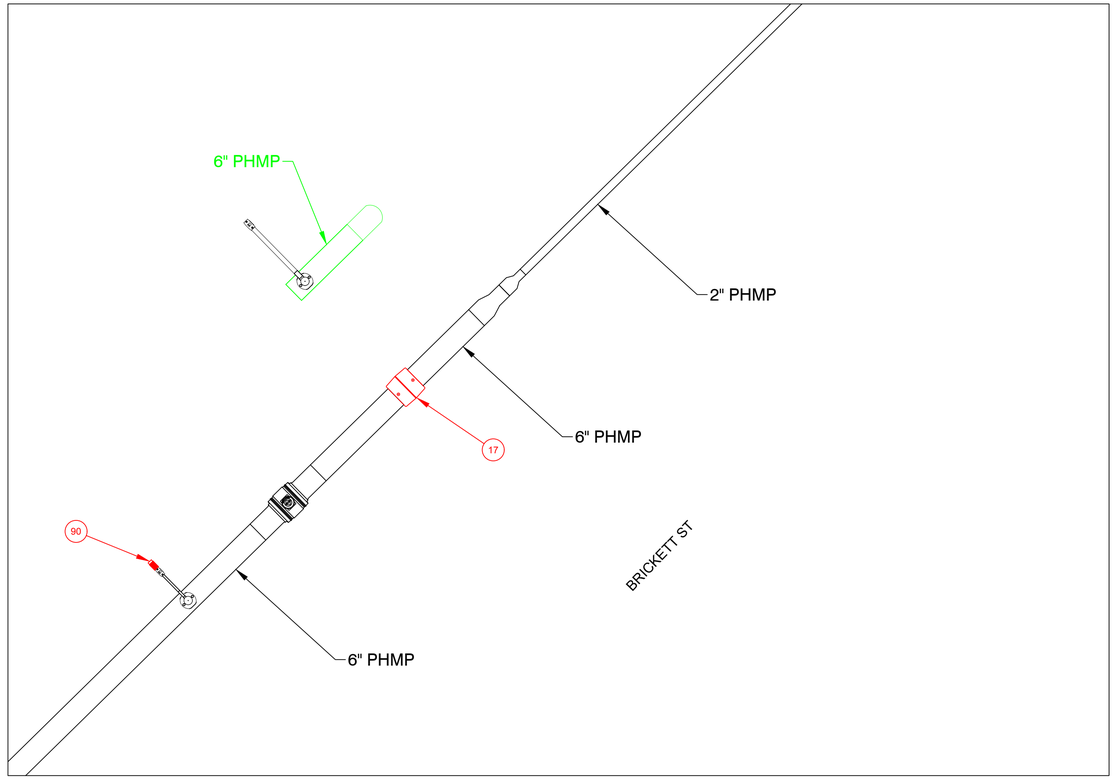
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "A" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 12 | 63051049 | 584982 | COUPLING, 1/2 IN CTS, ELECTROFUSION, HDPE, BLACK, ASTM F1055 , GFCP | 1 | EA |
| 14 | 63054027 | 503984 | COUPLING, 1 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP | 1 | EA |
| 1641 | CENTPLCO | 604756 | TEE,PIPE, NON-BLOWING, 6 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 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 |
| 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 |




PREPARATORY TIE-IN DETAIL A
NOT TO SCALE

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "A" 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 |
| 17 | 63051039 | 500856 | COUPLING, 6 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 A
NOT TO SCALE

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

PREPARATORY AND FINAL TIE-IN DETAILS

SCALE:1"=30' ON 22"X34" SHEET 07 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-07 | 00 |

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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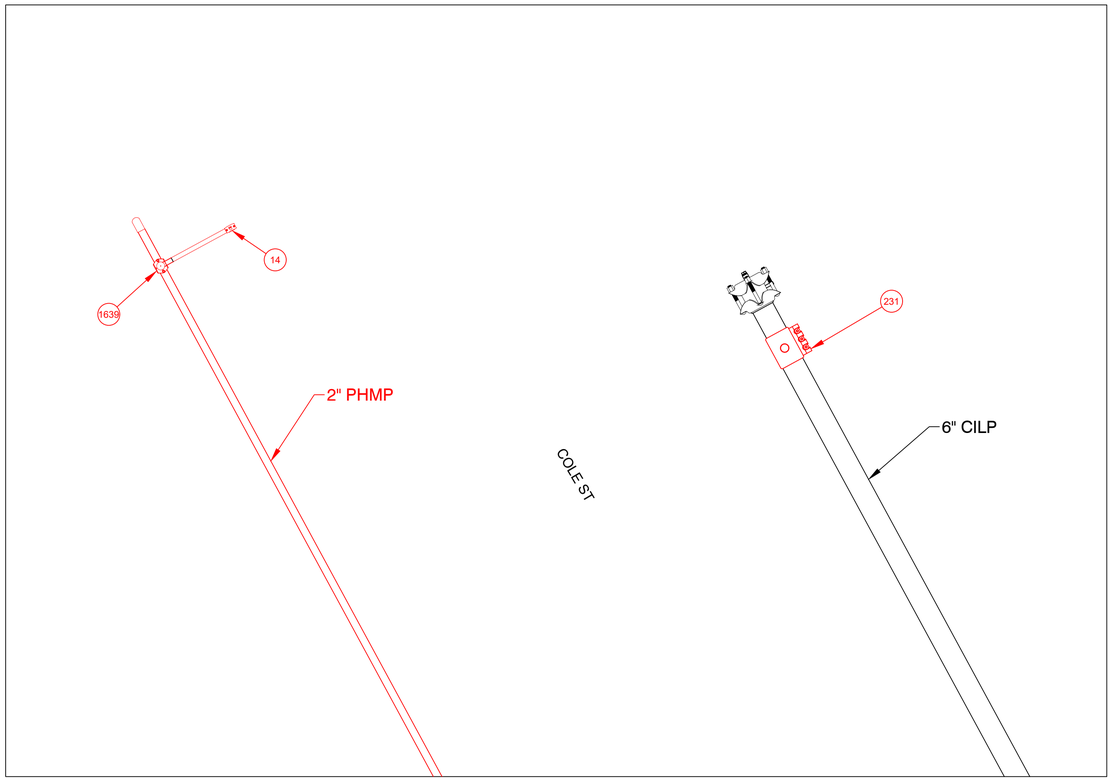
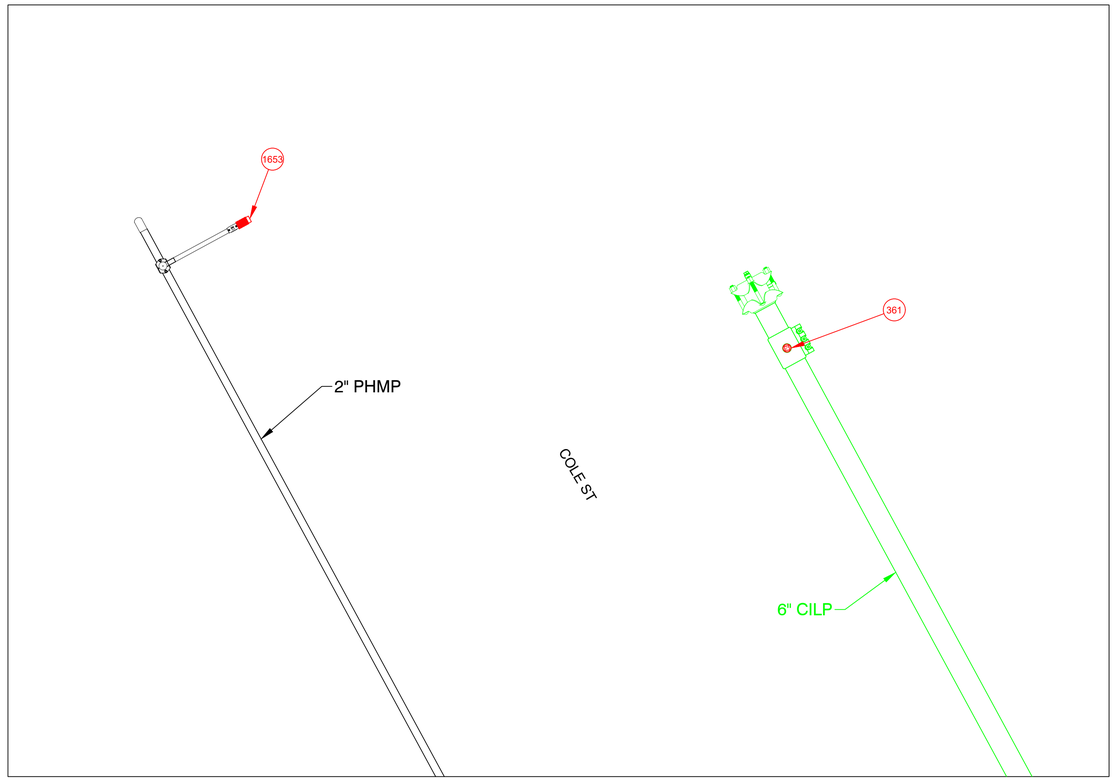
Dec 18, 2024 - 4:33pm
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "B" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 14 | 63054027 | 503984 | COUPLING, 1 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP | 2 | EA |
| 1639 | CENTPLCO | 604753 | TEE,PIPE, NON-BLOWING, 2 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 1 | EA |
| 1641 | CENTPLCO | 604756 | TEE,PIPE, NON-BLOWING, 6 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 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

| BRICKETT ST - GSEP, 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 | 2 | EA |




FINAL TIE-IN DETAIL B
NOT TO SCALE

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

PREPARATORY AND FINAL TIE-IN DETAILS

SCALE:1"=30' ON 22"X34" SHEET 08 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-08 | 00 |

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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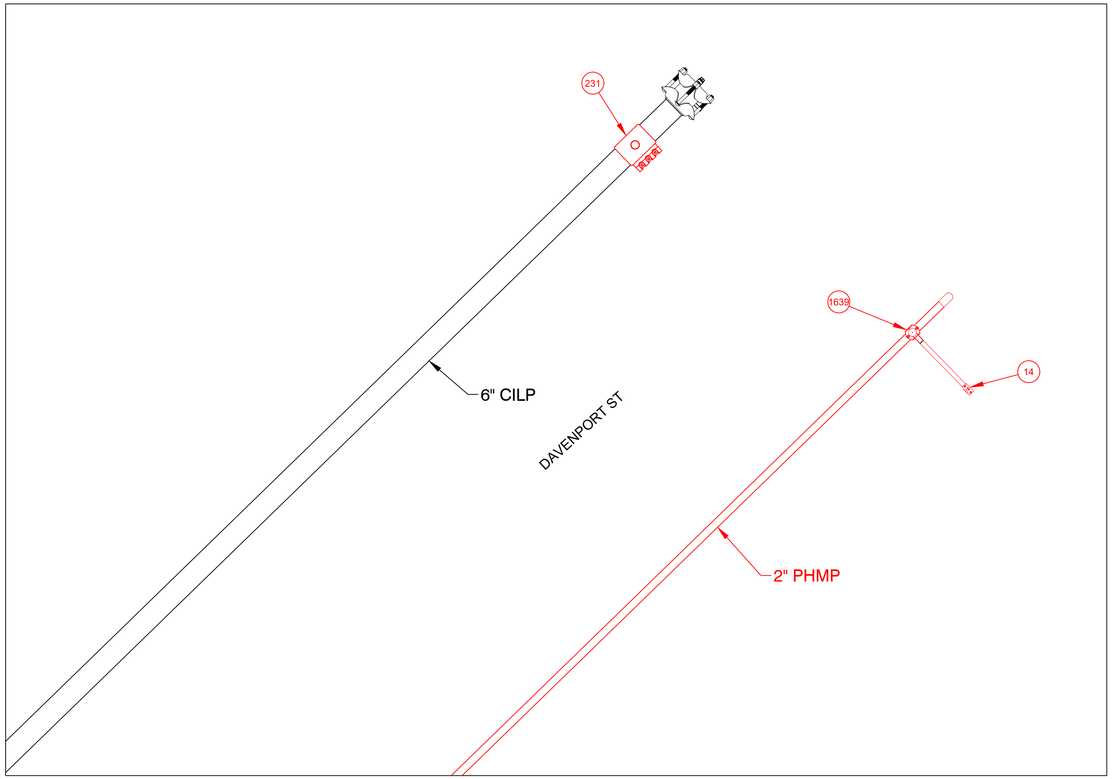
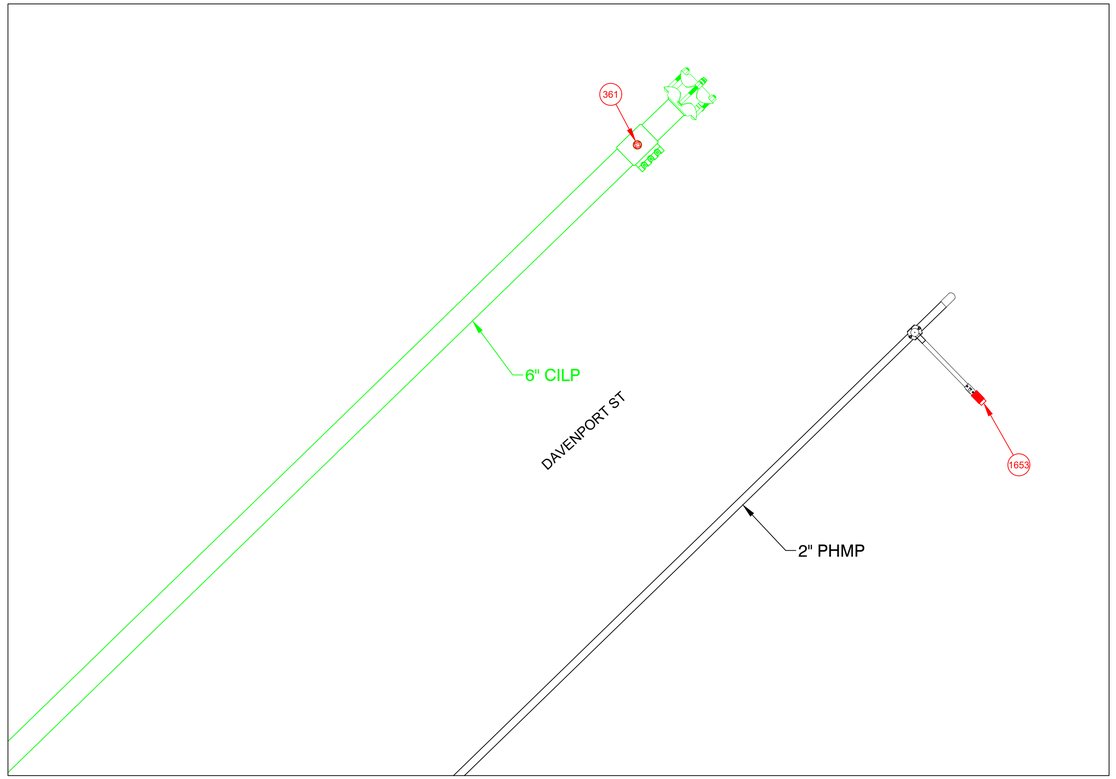
Dec 18, 2024 - 4:33pm
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "C" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 14 | 63054027 | 503984 | COUPLING, 1 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP | 2 | EA |
| 1639 | CENTPLCO | 604753 | TEE,PIPE, NON-BLOWING, 2 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 1 | EA |
| 1641 | CENTPLCO | 604756 | TEE,PIPE, NON-BLOWING, 6 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 1 | EA |
| 8 | 63078024 | 542572 | CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 1 | EA |




PREPARATORY TIE-IN DETAIL C
NOT TO SCALE

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "C" 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 | 2 | EA |




FINAL TIE-IN DETAIL C
NOT TO SCALE

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

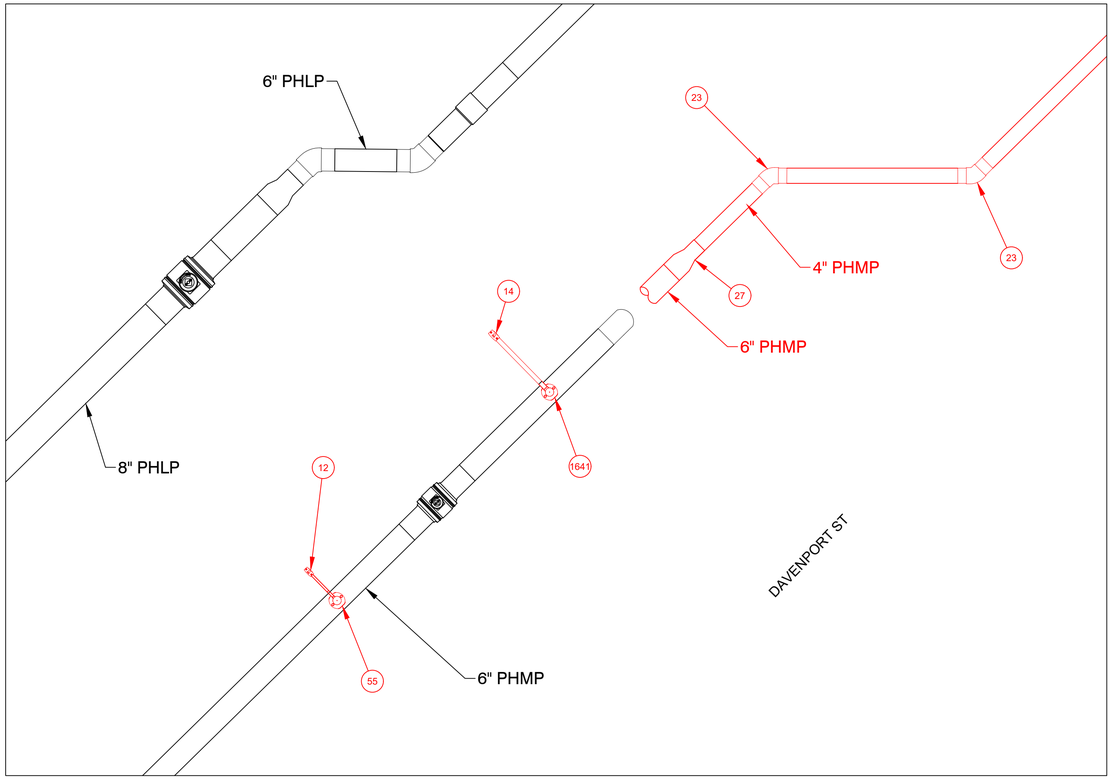
PREPARATORY AND FINAL TIE-IN DETAILS

SCALE:1"=30' ON 22"X34" SHEET 09 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-09 | 00 |

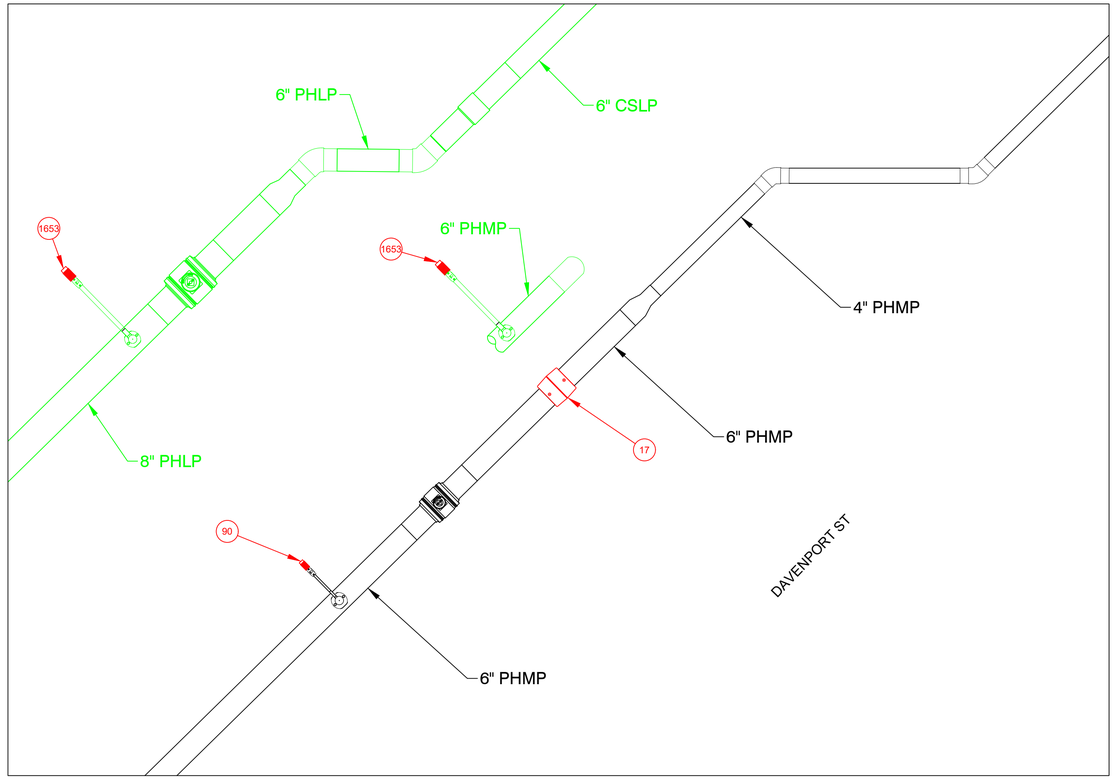
MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\Data\Shared\Data\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\
Dec 18, 2024 - 4:33pm
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "D" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 12 | 63051049 | 584982 | COUPLING, 1/2 IN CTS, ELECTROFUSION, HDPE, BLACK, ASTM F1055 , GFCP | 1 | EA |
| 14 | 63054027 | 503984 | COUPLING, 1 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP | 2 | EA |
| 1641 | CENTPLCO | 604756 | TEE,PIPE, NON-BLOWING, 6 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 2 | EA |
| 23 | 63078234 | 545338 | ELBOW,PIPE, 45 DEG, 4 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 2 | EA |
| 27 | 63078395 | 555594 | REDUCER,PIPE, 6 X 4 IPS, BUTT ENDS, P100, POLYETYLENE, SDR 11 | 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 |




PREPARATORY TIE-IN DETAIL D
NOT TO SCALE

| BRICKETT ST - GSEP, 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 | 4 | EA |
| 17 | 63051039 | 500856 | COUPLING, 6 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 D
NOT TO SCALE

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

PREPARATORY AND FINAL TIE-IN DETAILS

SCALE:1"=30' ON 22"X34" SHEET 10 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-10 | 00 |

ISSUED FOR CONSTRUCTION

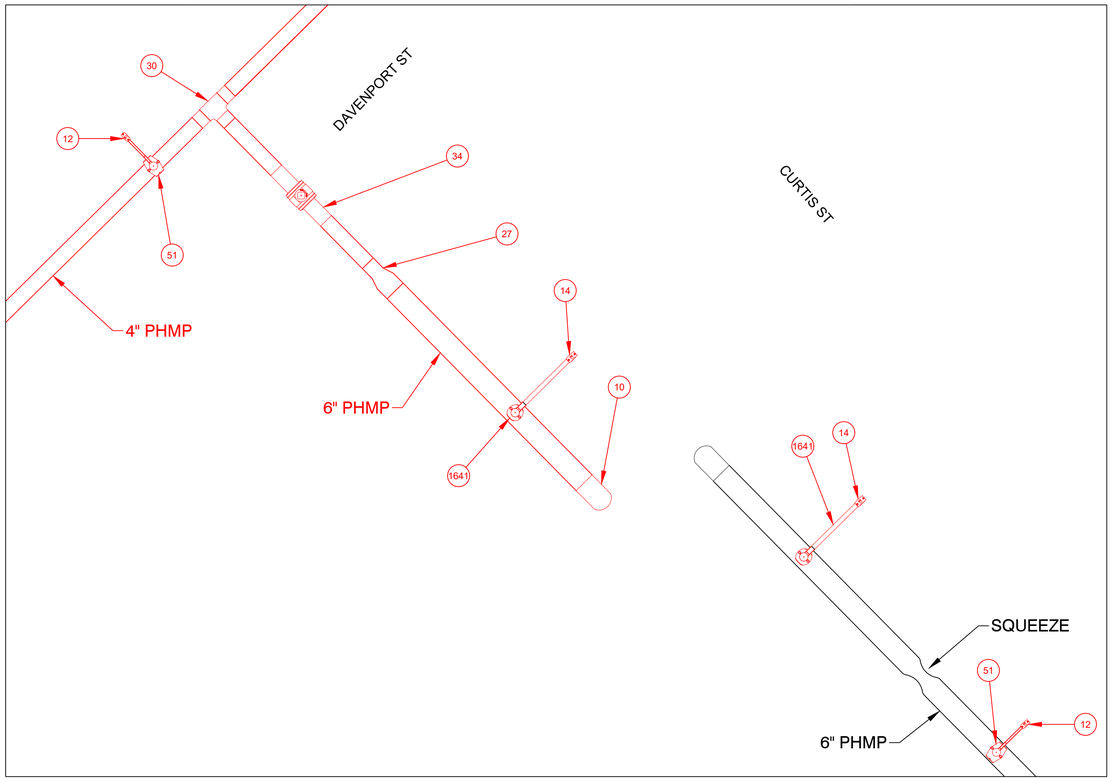
PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

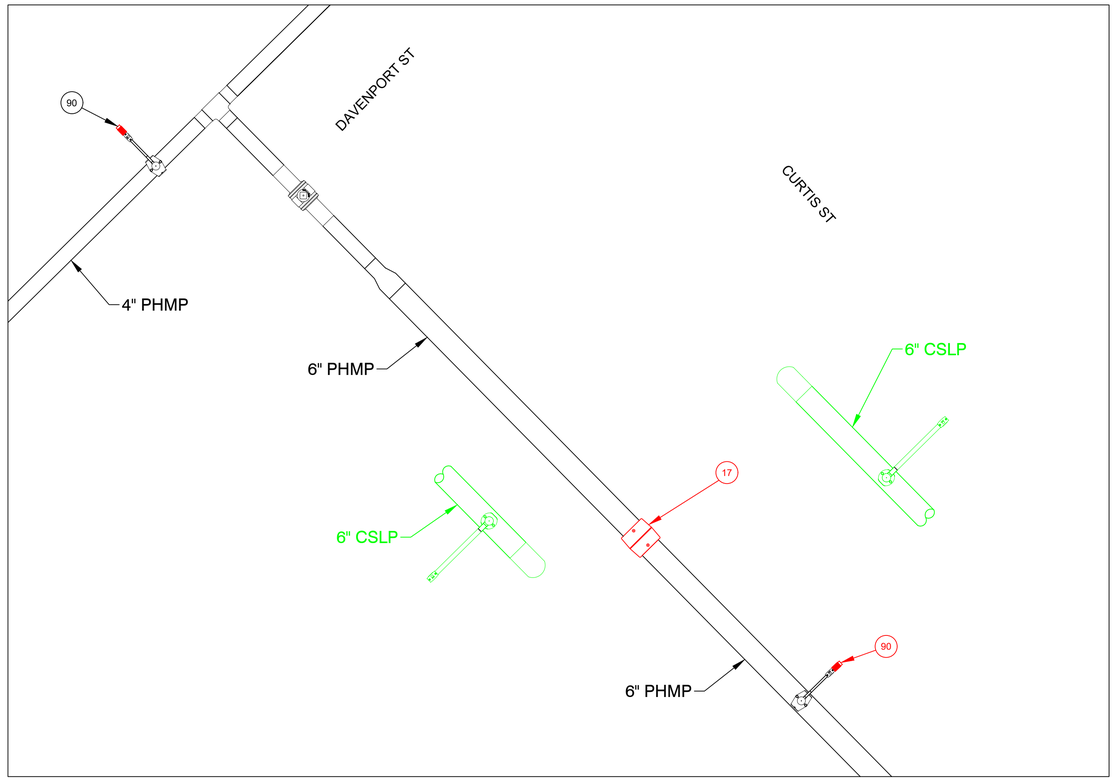
MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\Data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\
Dec 18, 2024 - 4:33pm
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "E" PREPARATORY | |
|---|---|---|---|---|---|
| **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 | 1 | EA |
| 12 | 63051049 | 584982 | COUPLING, 1/2 IN CTS, ELECTROFUSION, HDPE, BLACK, ASTM F1055 , GFCP | 2 | EA |
| 14 | 63054027 | 503984 | COUPLING, 1 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP | 2 | EA |
| 1641 | CENTPLCO | 604756 | TEE,PIPE, NON-BLOWING, 6 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 2 | EA |
| 27 | 63078395 | 555594 | REDUCER,PIPE, 6 X 4 IPS, BUTT ENDS, P100, POLYETYLENE, SDR 11 | 1 | EA |
| 30 | 63078455 | 560679 | TEE,PIPE, 4 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 1 | EA |
| 34 | 14281739 | 501002 | VALVE,BALL, 4 IN, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING, TO BE USED W/ BRAND SADDLE INST, P100 | 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 | 2 | EA |




PREPARATORY TIE-IN DETAIL E
NOT TO SCALE

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "E" FINAL | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 17 | 63051039 | 500856 | COUPLING, 6 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 | 2 | EA |




FINAL TIE-IN DETAIL E
NOT TO SCALE

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
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| | | | |
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

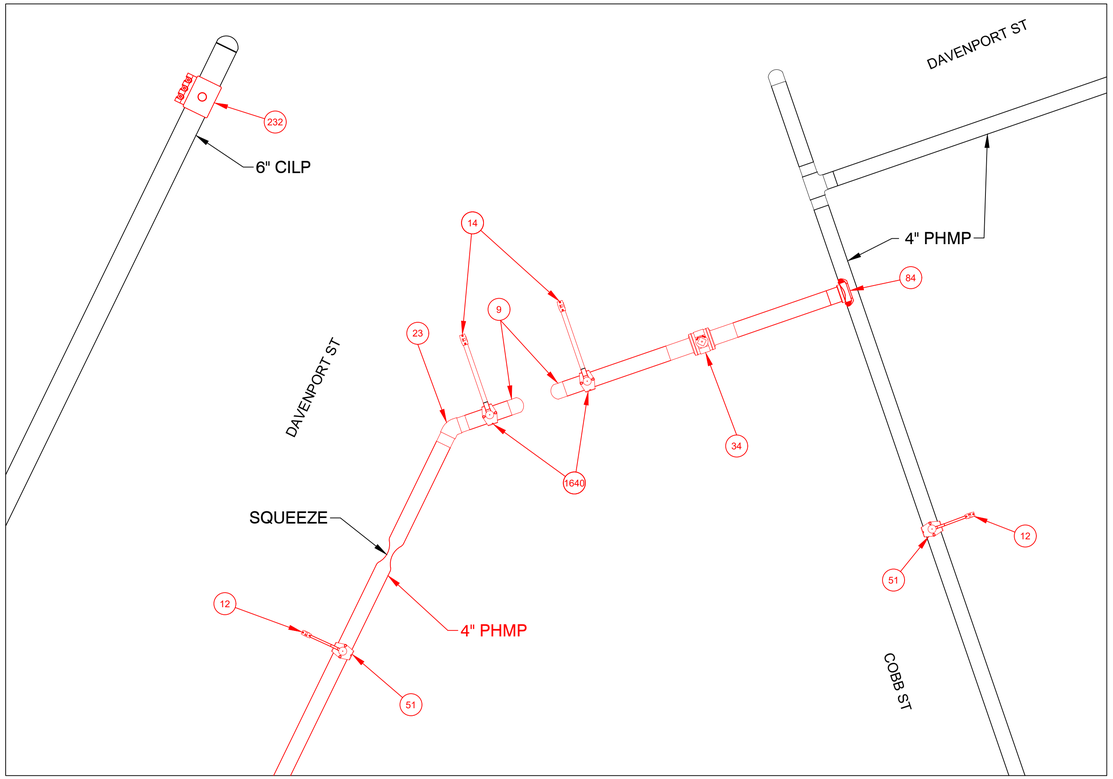
EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA
PROJECT # 25EG006 / WORK ORDER # 16854076
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=30' ON 22"X34" SHEET 11 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-11 | 00 |

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\Data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\
Dec 18, 2024 - 4:33pm
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

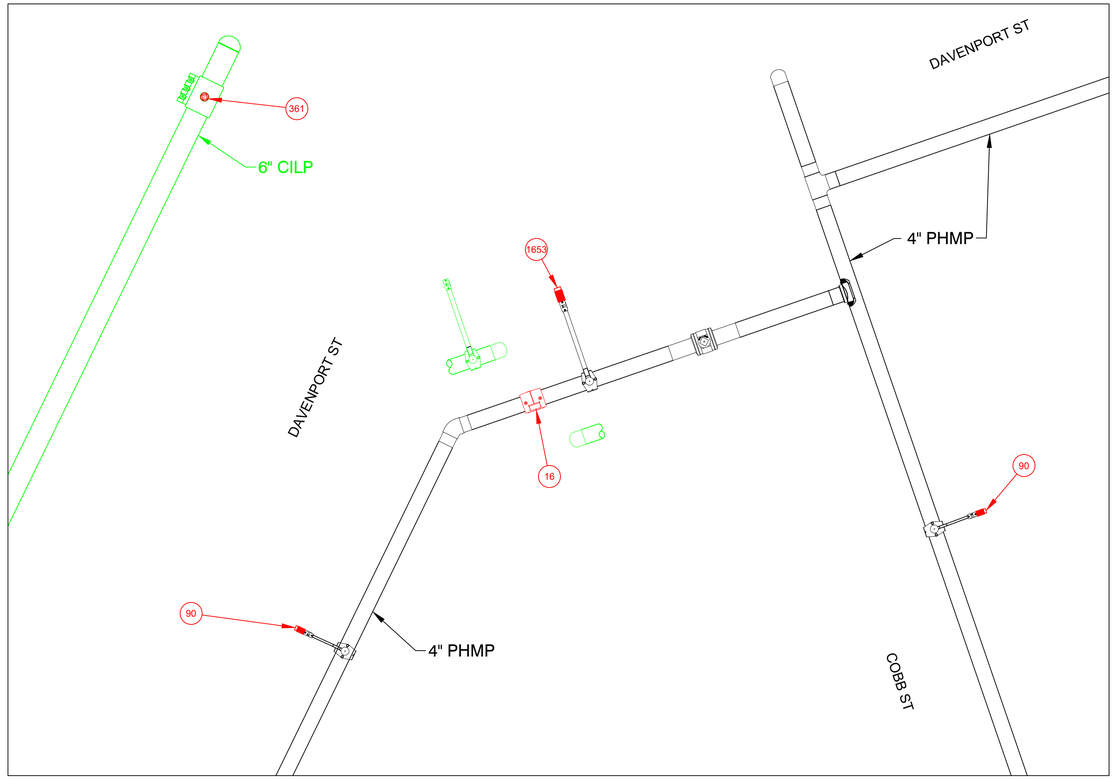
| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "F" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 12 | 63051049 | 584982 | COUPLING, 1/2 IN CTS, ELECTROFUSION, HDPE, BLACK, ASTM F1055 , GFCP | 2 | EA |
| 14 | 63054027 | 503984 | COUPLING, 1 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP | 2 | EA |
| 1640 | CENTPLCO | 604755 | TEE,PIPE, NON-BLOWING, 4 X 1 IN IPS SDR 11, POLYETHYLENE, PE3408, ELECTROFUSION X 18 IN LONG PLAIN END PUP PIECE | 2 | EA |
| 23 | 63078234 | 545338 | ELBOW,PIPE, 45 DEG, 4 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 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 |
| 34 | 14281739 | 501002 | VALVE,BALL, 4 IN, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING, TO BE USED W/ BRAND SADDLE INST, P100 | 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 | 2 | EA |
| 84 | 63056000 | 610800 | SADDLE,PIPE, BRANCH, 4 IN X 4 IN, ELECTROFUSION TAPPING, HDPE, 4.7 MM SIN PIN, CMA 21838044 | 1 | EA |
| 9 | 63078039 | 542538 | CAP,PIPE, 4 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 2 | EA |




PREPARATORY TIE-IN DETAIL F

NOT TO SCALE

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "F" FINAL |
|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 16 | 63051037 | 500855 | COUPLING, 4 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 |
| 361 | 19080340 | 554878 | PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 1 | EA |
| 90 | 63424221 | 610757 | FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823 | 2 | EA |




FINAL TIE-IN DETAIL F

NOT TO SCALE

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

PREPARATORY AND FINAL TIE-IN DETAILS

SCALE:1"=30' ON 22"X34" SHEET 12 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-12 | 00 |

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\Data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\
Dec 18, 2024 - 4:33pm
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg

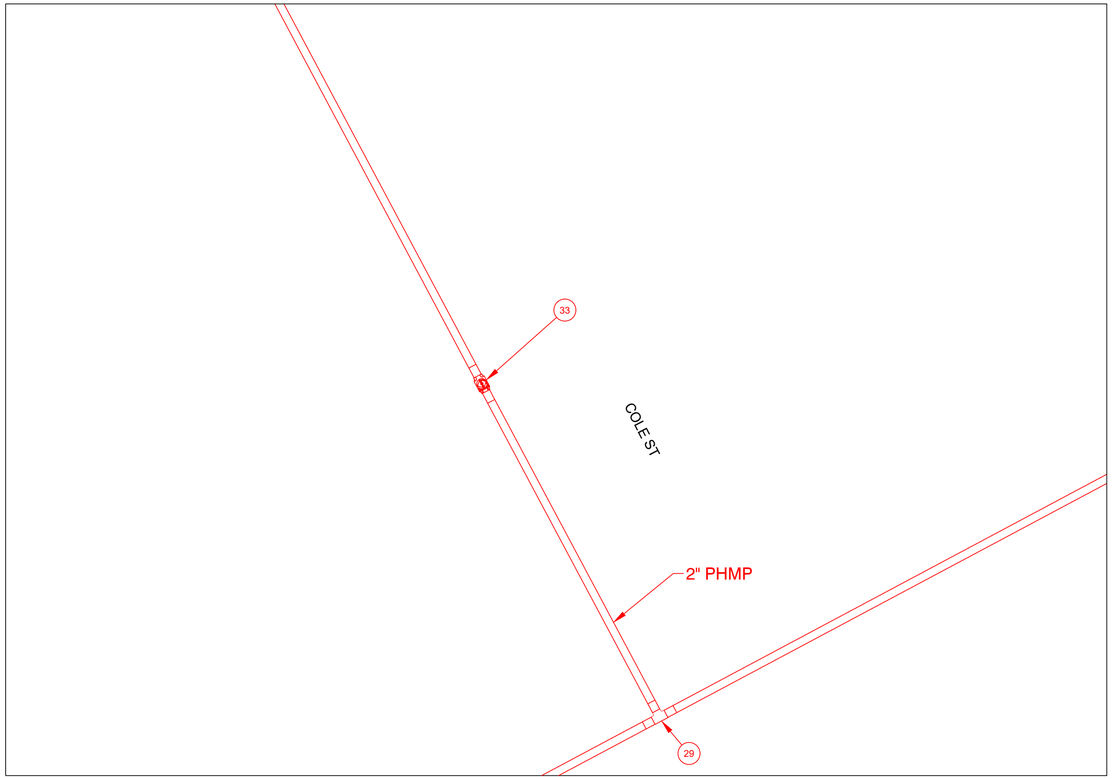
EGMA DRAWING TEMPLATE - 02-28-2023

\\nu.com\Data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\

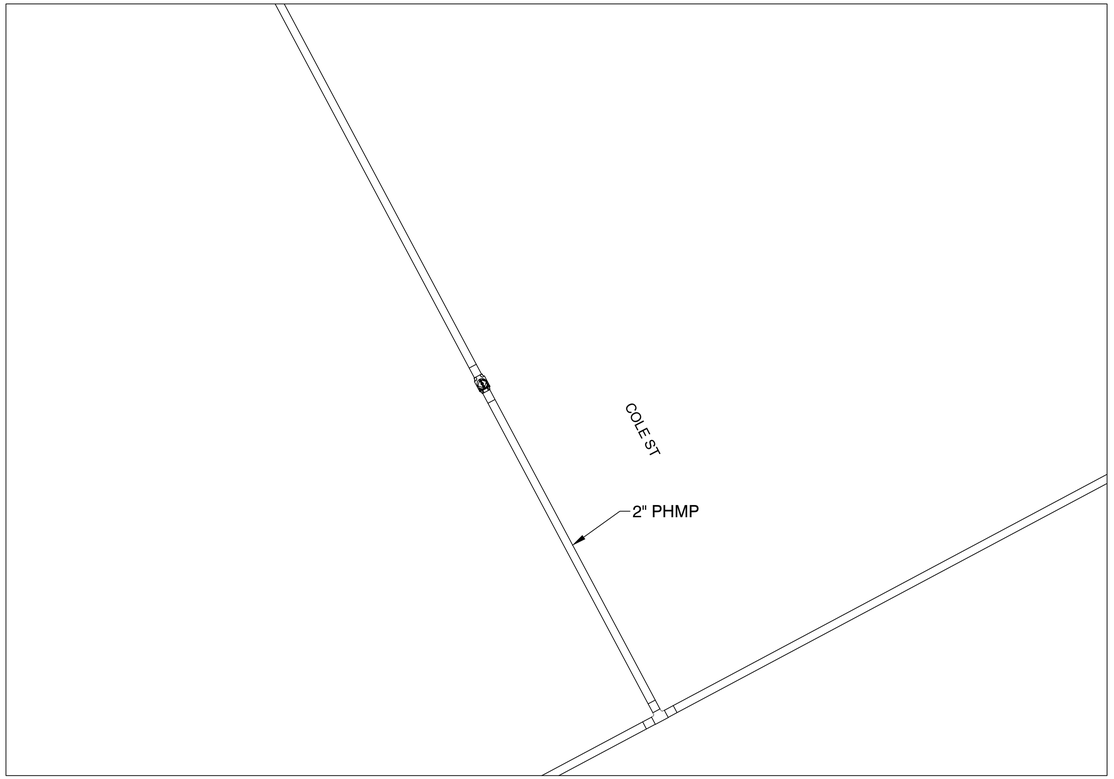
Dec 18, 2024 - 4:33pm

Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "G" 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 |




PREPARATORY TIE-IN DETAIL G
NOT TO SCALE




FINAL TIE-IN DETAIL G
NOT TO SCALE

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
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| | | | |
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA

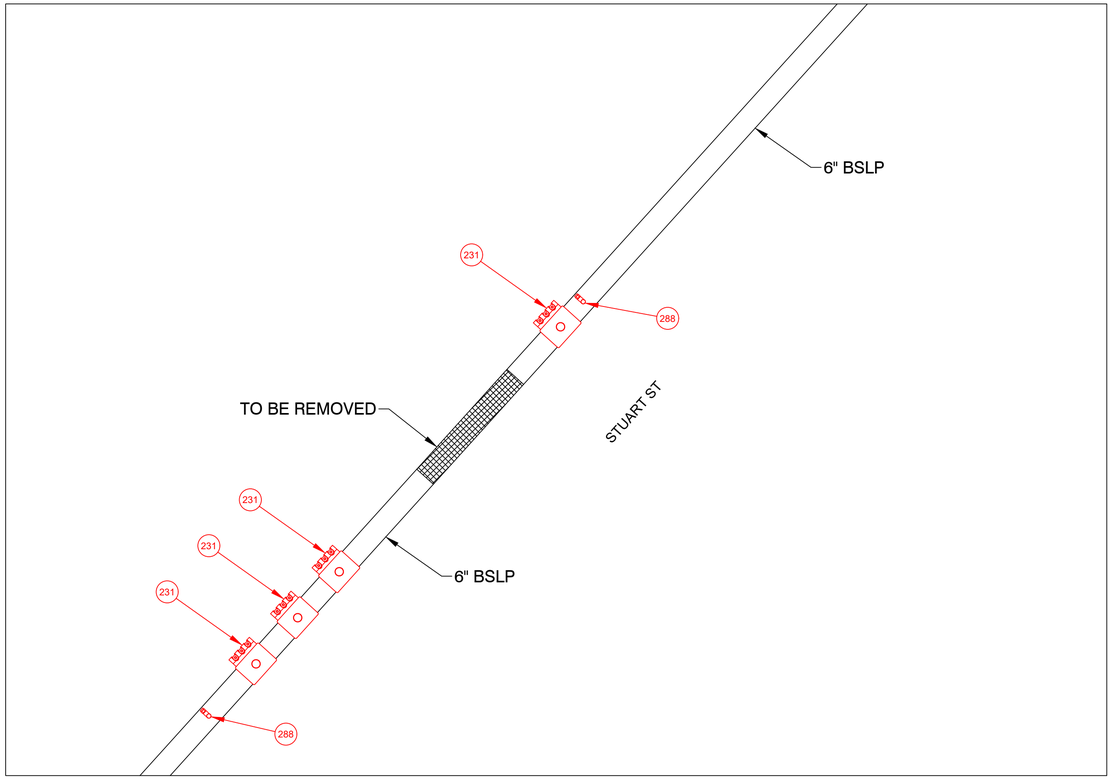
PROJECT # 25EG006 / WORK ORDER # 16854076

PREPARATORY AND FINAL TIE-IN DETAILS

SCALE:1"=30' ON 22"X34" SHEET 13 OF 19

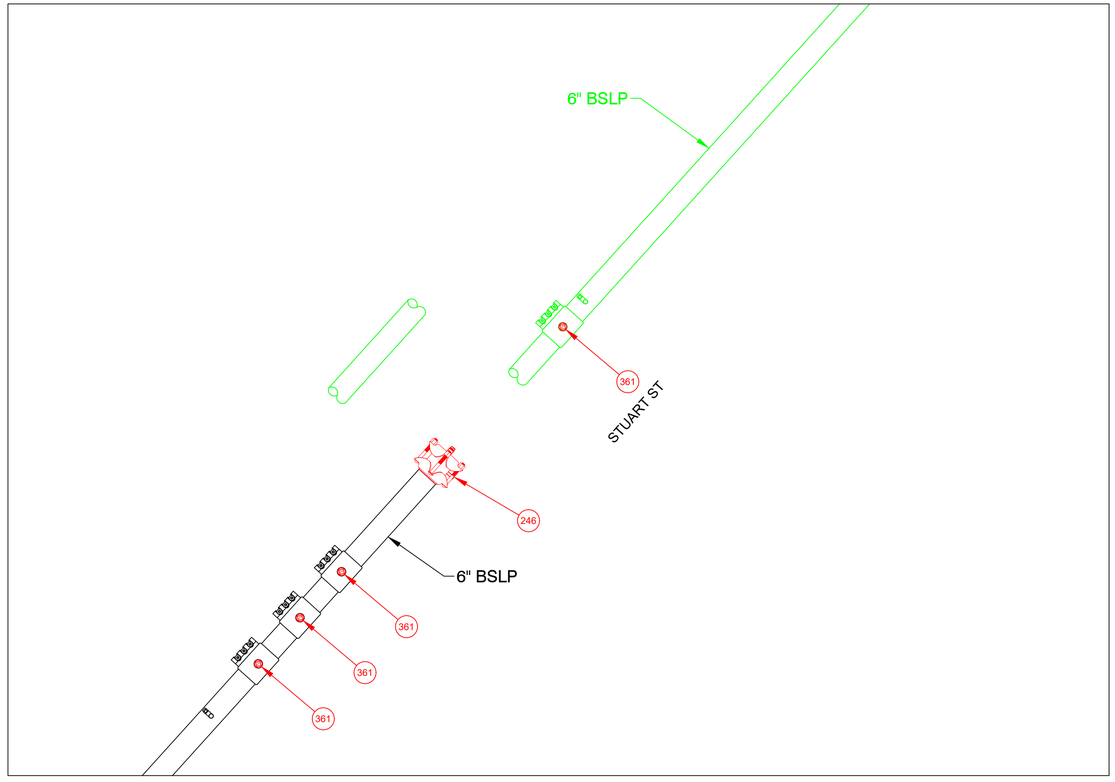
| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-13 | 00 |

| BRICKETT ST - GSEP, SPRINGFIELD | | | | | DETAIL "H" PREPARATORY |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 231 | 63462157 | 543029 | CLAMP,PIPE, REPAIR, 6 IN IPS, SS, W/2 IN TAP | 3 | EA |
| 288 | 63427267 | 560709 | TEE,PIPE, STEEL, NON-BLOWING, 3/4 IN WELD INLET X 1/2 CTS 0.090 IN THK WALL PLASTIC COMPRESSION OUTLET, 3/8 IN PERF | 2 | EA |




PREPARATORY TIE-IN DETAIL H
NOT TO SCALE

| BRICKETT ST - GSEP, SPRINGFIELD | | | | | DETAIL "H" 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 | 1 | EA |
| 361 | 19080340 | 554878 | PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 3 | EA |
| 90 | 63424221 | 610757 | FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823 | 2 | EA |




FINAL TIE-IN DETAIL H
NOT TO SCALE

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

PREPARATORY AND FINAL TIE-IN DETAILS

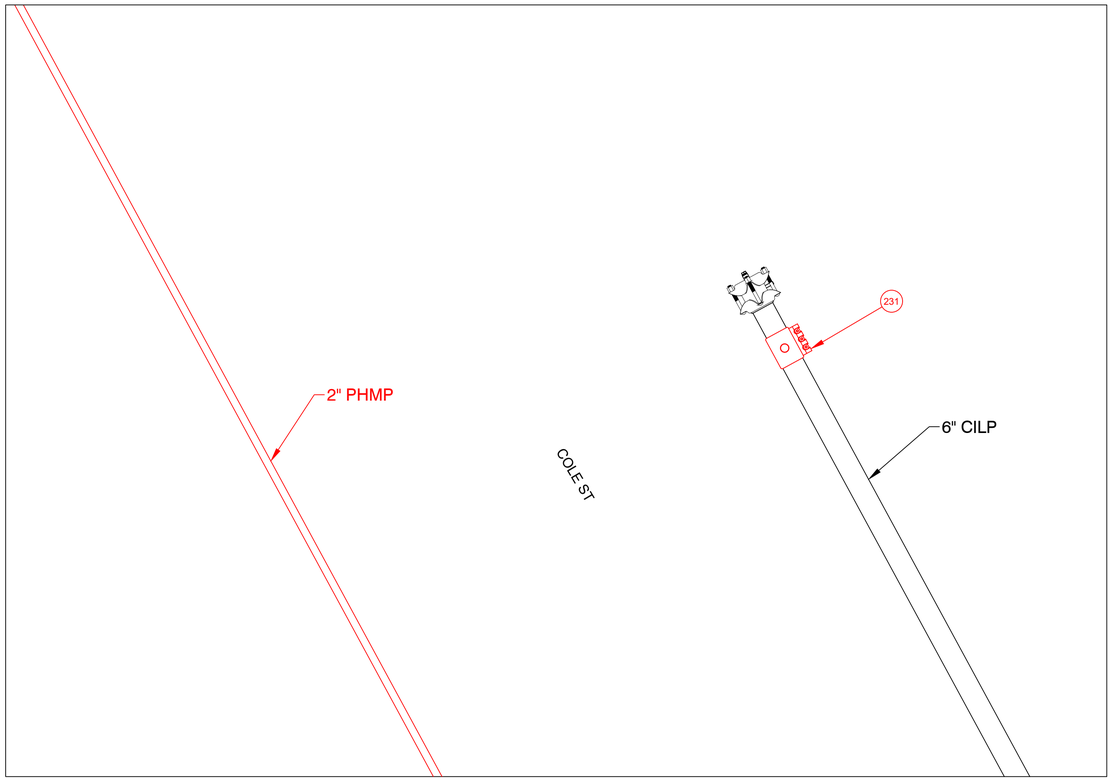
SCALE:1"=30' ON 22"X34" SHEET 14 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-14 | 00 |

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\Data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\
Dec 18, 2024 - 4:33pm
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

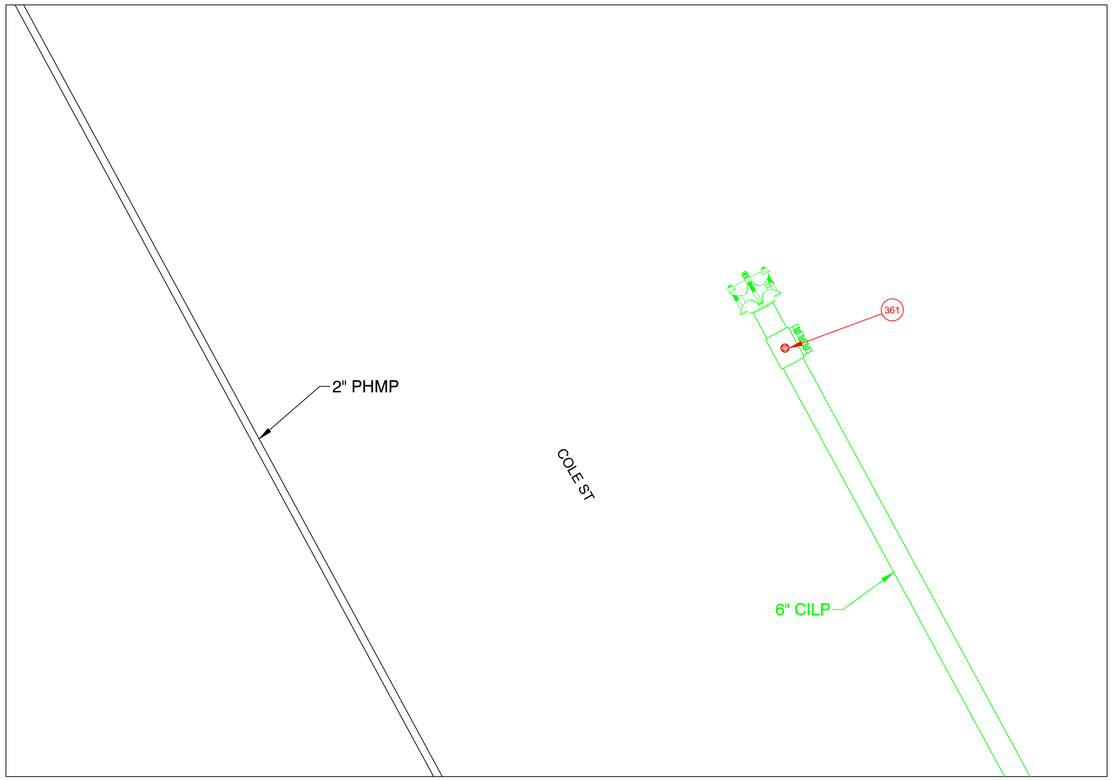
MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
\\nu.com\Data\Shared\Data\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "I" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 231 | 63462157 | 543029 | CLAMP,PIPE, REPAIR, 6 IN IPS, SS, W/2 IN TAP | 1 | EA |




PREPARATORY TIE-IN DETAIL I
NOT TO SCALE

| BRICKETT ST - GSEP, SPRINGFIELD | | | | DETAIL "I" 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 I
NOT TO SCALE

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

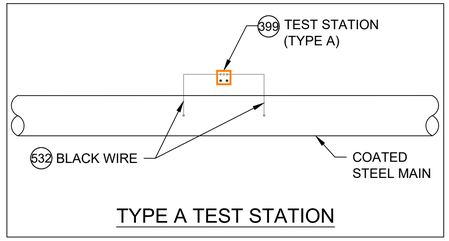
EVERSOURCE ENERGY

BRICKETT ST - GSEP, SPRINGFIELD, MA
PROJECT # 25EG006 / WORK ORDER # 16854076
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=30' ON 22"X34" SHEET 15 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-15 | 00 |

Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

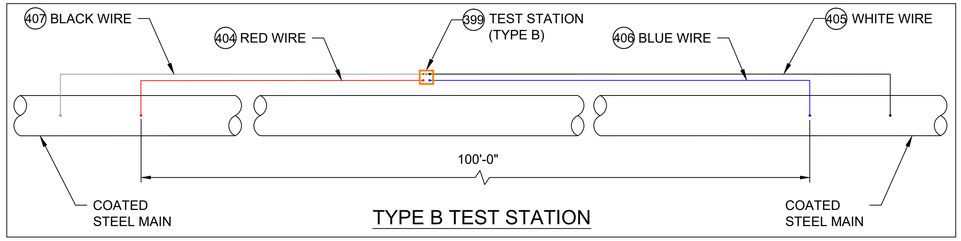
MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg




TYPE A TEST STATION

## DETAIL CP1

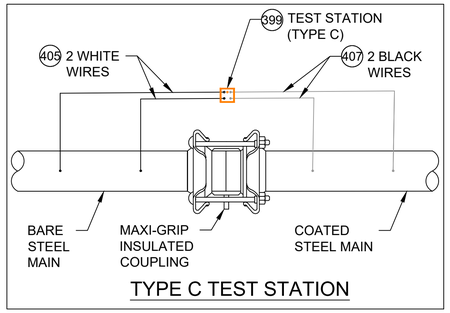
SCALE: 1/2" = 1'-0"




TYPE B TEST STATION

## DETAIL CP2

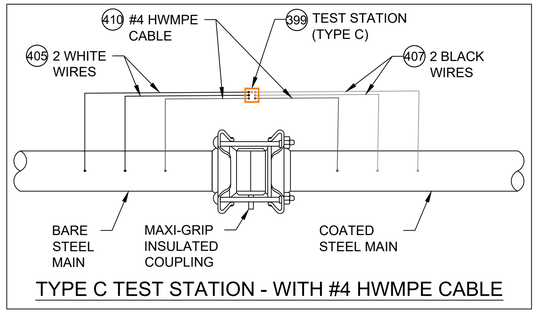
SCALE: 1/2" = 1'-0"




TYPE C TEST STATION

## DETAIL CP3

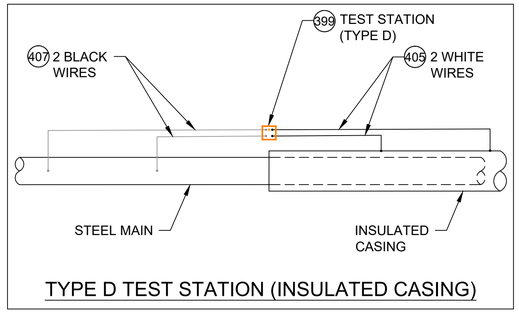
SCALE: 1/2" = 1'-0"




TYPE C TEST STATION - WITH #4 HWMPE CABLE

## DETAIL CP4

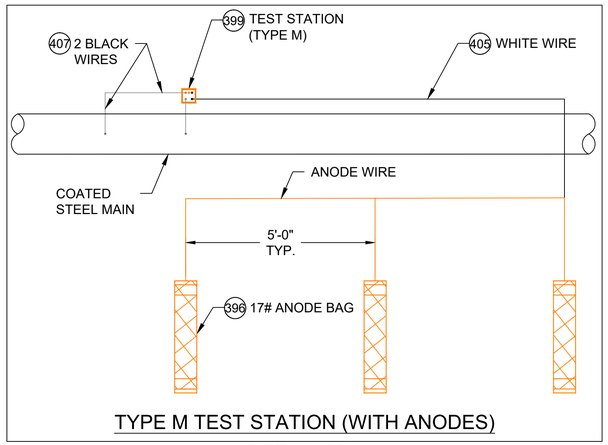
SCALE: 1/2" = 1'-0"




TYPE D TEST STATION (INSULATED CASING)

## DETAIL CP5

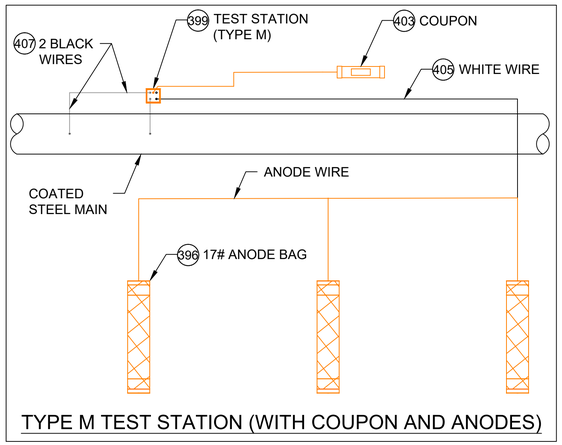
SCALE: 1/2" = 1'-0"




TYPE M TEST STATION (WITH ANODES)

## DETAIL CP6

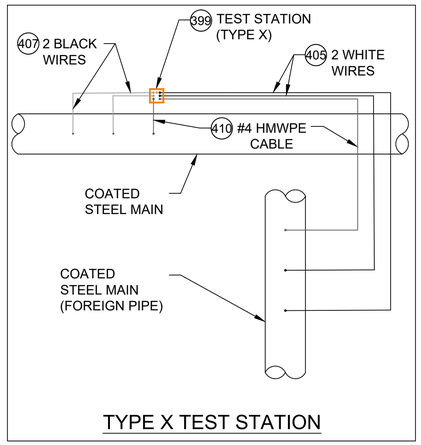
SCALE: 1/2" = 1'-0"




TYPE M TEST STATION (WITH COUPON AND ANODES)

## DETAIL CP7

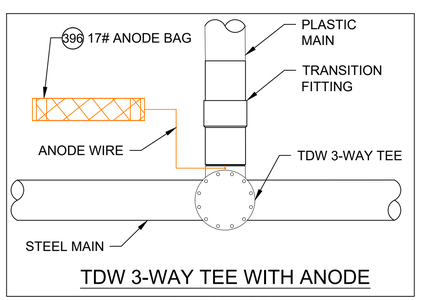
SCALE: 1/2" = 1'-0"




TYPE X TEST STATION

## DETAIL CP8

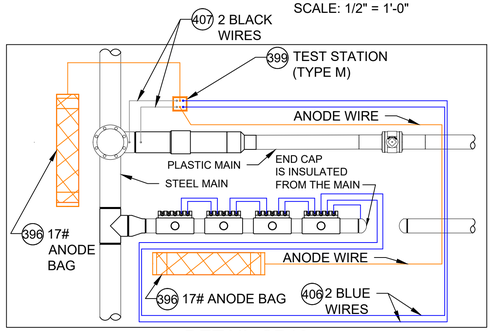
SCALE: 1/2" = 1'-0"




TDW 3-WAY TEE WITH ANODE

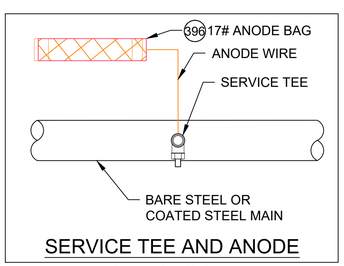
## DETAIL CP9

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

| 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, 0F 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 |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

DETAILS, NOTES AND BILL OF MATERIALS

SCALE: NTS SHEET 16 OF 19

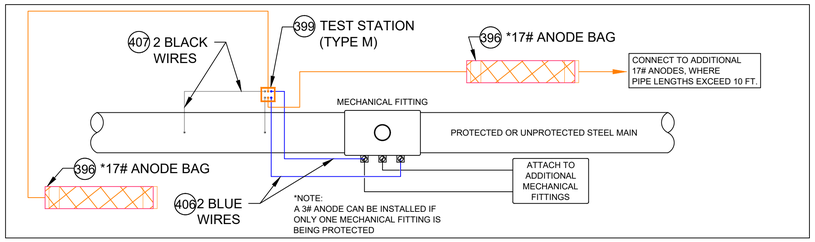
| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-16 | 00 |

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

\\nu.com\Data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\

Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

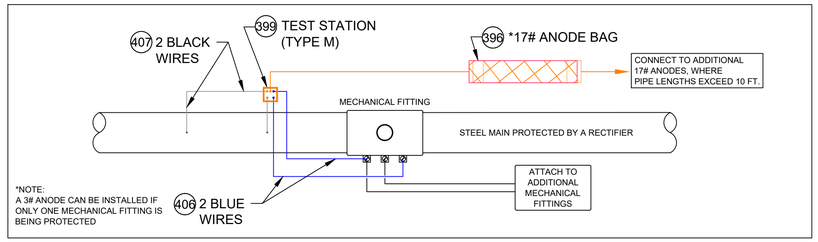
Dec 18, 2024 - 4:33pm




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

## DETAIL CP12

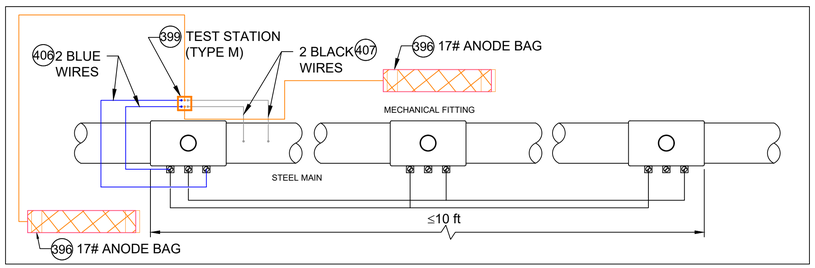
SCALE: 1/2" = 1'-0"




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

## DETAIL CP13

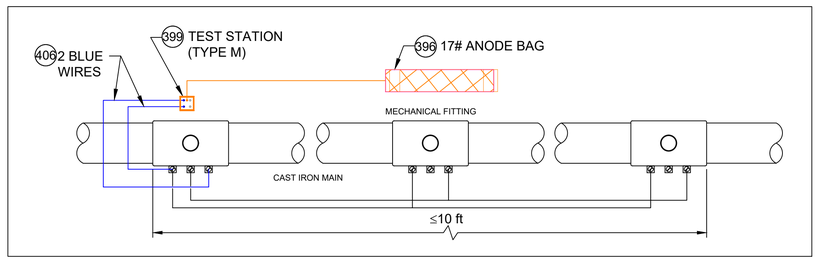
SCALE: 1/2" = 1'-0"




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

## DETAIL CP14

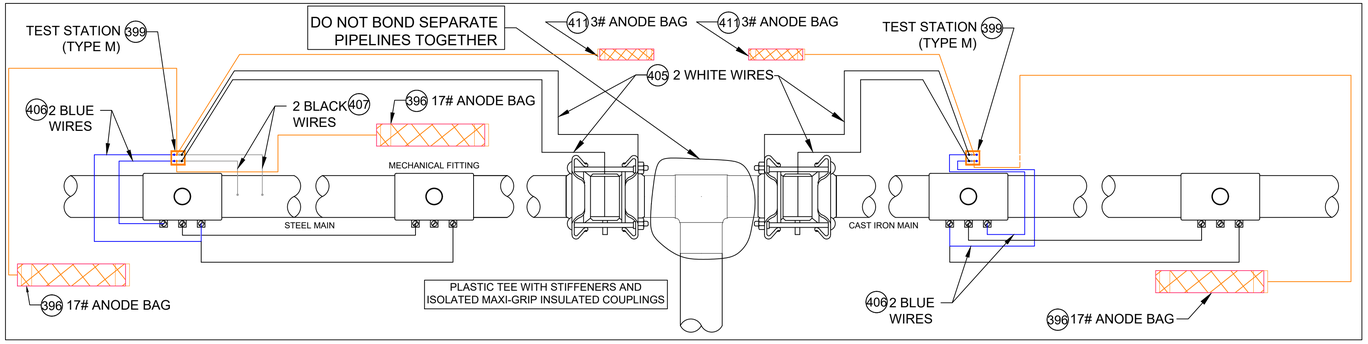
SCALE: 1/2" = 1'-0"




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

## DETAIL CP15

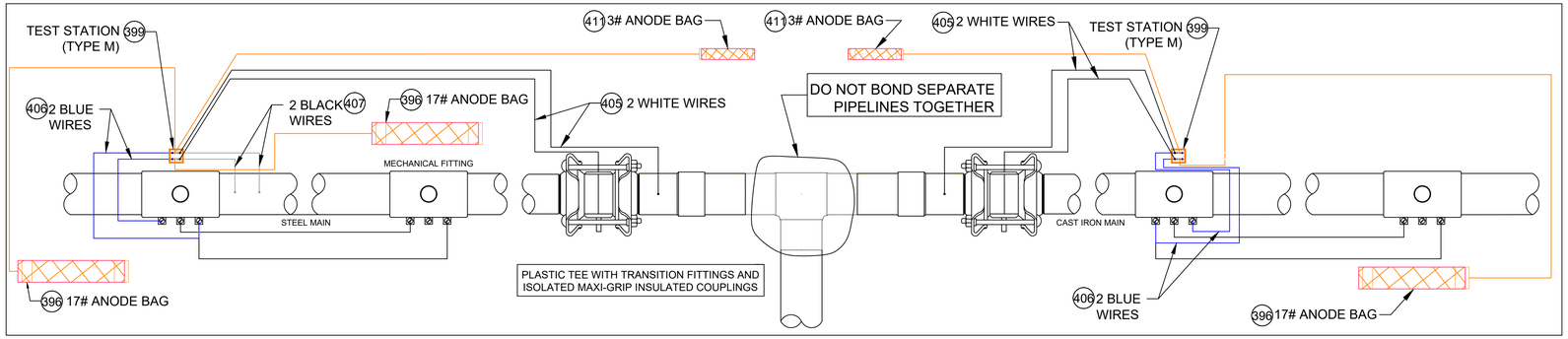
SCALE: 1/2" = 1'-0"




## 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, 0F 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: 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 |
|---|---|---|---|
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

DETAILS, NOTES AND BILL OF MATERIALS

SCALE: NTS SHEET 17 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-17 | 00 |

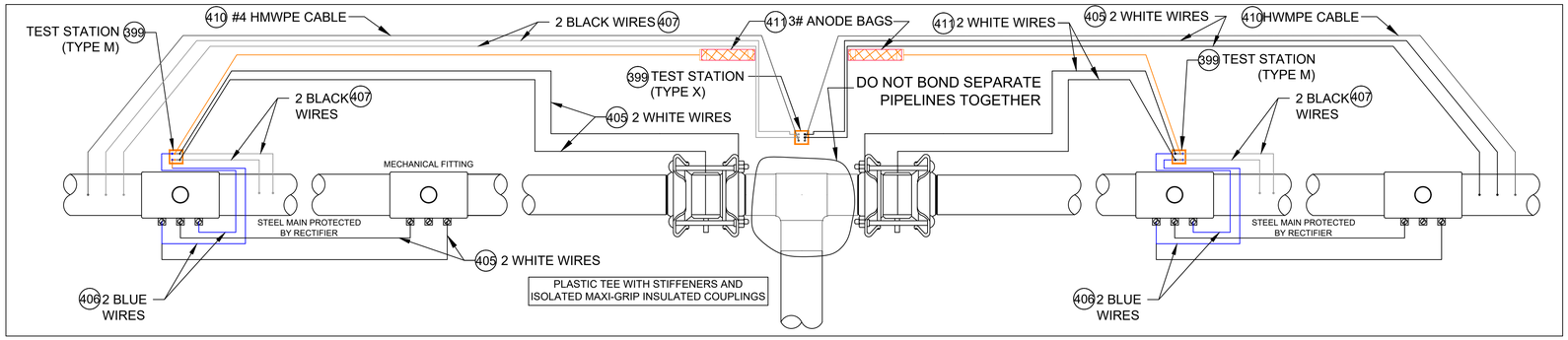
FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg

\\nu.com\Data\Shared\Data\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\

Dec 18, 2024 - 4:34pm

Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)




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"

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, 0F 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: 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 |
|---|---|---|---|
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| | | | |
| | | | |
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

BRICKETT ST - GSEP, SPRINGFIELD, MA
PROJECT # 25EG006 / WORK ORDER # 16854076
DETAILS, NOTES AND BILL OF MATERIALS

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

SCALE: NTS SHEET 18 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-18 | 00 |

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg
\\nu.com\Data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\
Dec 18, 2024 - 4:34pm
Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00-SADDLE.dwg

\\nu.com\Data\SharedData\GasProjectEngineering\EGMA\Springfield\2025\Springfield, Brickett St - GSEP, 25EG006\Drawings\

Attachment: MA-SPR-PIP-25-004 - Brickett St - IFC Drawing - REV00 (8535 : EVERSOURCE -Brickett Street)

ISSUED FOR CONSTRUCTION

PE STAMP AND SIGNATURE

VENDOR LOGO

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | DRAWING CREATED | 08/15/24 | RTM |

Revision/Status

BRICKETT ST - GSEP, SPRINGFIELD, MA

PROJECT # 25EG006 / WORK ORDER # 16854076

PLAN

SCALE: NTS SHEET 19 OF 19

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| RTM 08/15/24 | RPB 11/06/24 | MA-SPR-PIP-25-004-19 | 00 |



Dec 18, 2024 - 4:34pm

EVERSOURCE ENERGY

12/19/2024

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

ATTN: Gladys Oyola-Lopez, City Clerk

**PROJECT NAME: Brickett St - 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 Pine Point Neighborhood (as seen in the attached plan). Work will extend to the following streets in varying degrees/durations:

| Street Name | From | To |
|---|---|---|
| Brickett St | Harvey St | Curtis St |
| Cole St | Brickett St | End Limit |
| Davenport St | Harvey St | Cobb St |
| Curtis St | Davenport St | 35 Curtis St |

This project will introduce modernized natural gas facilities to the area and retire the 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.

Ryan Maheu
Engineer
Eversource Energy
2025 Roosevelt Ave.
Springfield, MA 01104
Cell: 413-569-8349
Email: ryan.maheu@eversource.com

Attachment: Springfield City Council Letter - Brickett St (8535 : EVERSOURCE -Brickett Street)

**City Council**
36 Court Street
Springfield, MA 01103

**SCHEDULED**

**PETITION (ID # 8574)**

Meeting: 04/07/25 07:00 PM
Department: Department of Public Works
Category: General
Prepared By: Hector Velez
Initiator: Hector Velez
Sponsors:
DOC ID: 8574

# EVERSOURCE - Murray Hill 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 Liberty Heights Neighborhood in Springfield to install medium-pressure and retire low-pressure cast iron gas infrastructure.

**WHEREAS,** said petition Murray Hill Ave. was referred to the Board of Public Works on October 22, 2024; and

**WHEREAS,** On February 18, 2025, a Notice of a Public Hearing on Murray Hill Ave. to be held on March 6, 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 March 6, 2025, the Board of Public Works reported thereon that, after careful consideration of the petition to install underground gas facilities on a section of Liberty Heights Neighborhood on Murray Hill Ave, Franklin Street, Liberty Street, Columbia Street, Heywood Street, Tracy Street, Genesee Street, and Ledyard Street to upgrade to medium-pressure and retire low-pressure cast iron gas infrastructure; all substantially shown on a plan attached with the project name:

Murray Hill Ave.

Consisting of twenty-four (34) 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 Murray Hill 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.

CITY OF SPRINGFIELD, MASSACHUSETTS

March 6, 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 October 22, 2024, to install underground gas facilities on a section of Liberty Heights Neighborhood on Murray Hill Ave, Franklin Street, Liberty Street, Columbia Street, Heywood Street, Tracy Street, Genesee Street, and Ledyard Street to upgrade to medium-pressure and retire low-pressure cast iron gas infrastructure: Murray Hill Ave. 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 March 6, 2025, at 3:30 P.M. at the corner of Liberty Street and Heywood Street 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 Murray Hill (8574 : EVERSOURCE - Murray Hill 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.

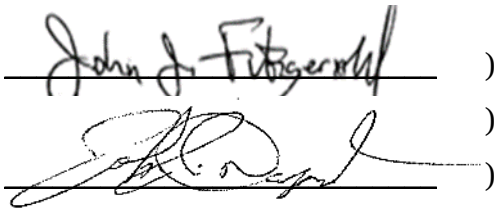
Ramps for the handicapped will be provided if and where required by law and in conformance with the Rules and Regulations of the Massachusetts Architectural Barrier Board.

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

)

)

Attachment: Report Murray Hill (8574 : EVERSOURCE - Murray Hill Ave.)

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| 05 OF 34 | PROJECT LOCATION PLAN |
| 06 OF 34 | PROJECT LOCATION PLAN |
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| 32 OF 34 | MA CORROSION DETAILS (2 OF 3) |
| 33 OF 34 | MA CORROSION DETAILS (3 OF 3) |
| 34 OF 34 | BLANK GRIDDED SHEET |

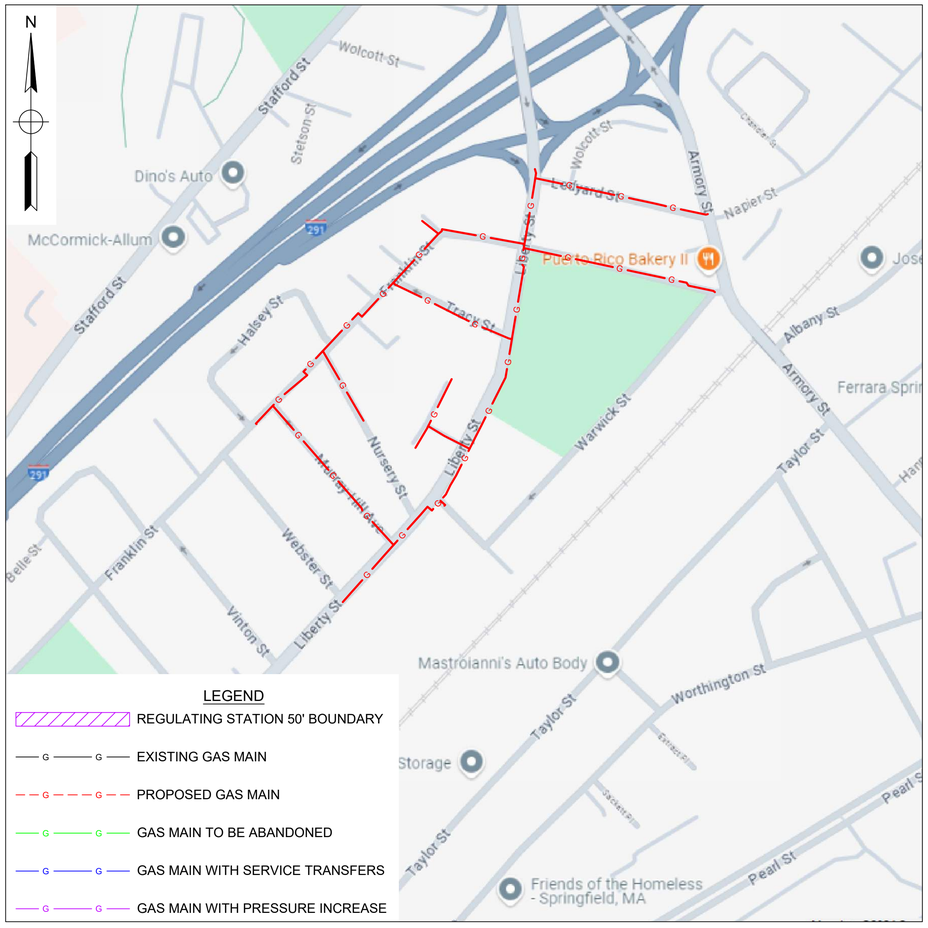

**PROJECT SUMMARY TABLE**
**INSTALLATION INFORMATION**

| Work Type | LENGTH (FT) | SIZE (IN) | MAOP | MATERIAL |
|---|---|---|---|---|
| INSTALL | 2,387' | 6" | 60 PSIG-MP | HDPE |
| INSTALL | 3,869' | 2" | 60 PSIG-MP | HDPE |
| | | | | |
| | | | INSTALLATION TOTAL | 6,256' |
| | | | UPRATE/RETEST TOTAL | 0' |

**PROJECT SUMMARY TABLE**
**ABANDONMENT INFORMATION**

| LENGTH (FT) | SIZE (IN) | MAOP | ABANDONMENT CLASS |
|---|---|---|---|
| | | | |
| 90' | 3 | 14" WC | CI-(GSEP) |
| 1,229' | 4 | 14" WC | CI-(GSEP) |
| 4,072' | 6 | 14" WC | CI-(GSEP) |
| 96' | 4 | 14" WC | Plastic (Non-GSEP) |
| 586' | 6 | 14" WC | Plastic (Non-GSEP) |
| 171' | 6 | 14" WC | Protected CS (Non-GSEP) |
| 124' | 8 | 14" WC | Protected CS (Non-GSEP) |
| 2' | 6 | 14" WC | Plastic Pre 1985(GSEP) |
| 110' | 6 | 14" WC | Unprotected CS (GSEP) |
| | | GSEP ABANDONMENT SUBTOTAL | 5,502' |
| | | NON-GSEP ABANDONMENT SUBTOTAL | 977' |
| | | ABANDONMENT TOTAL | 6,480' |

EVERSOURCE ENERGY




WORK SCOPE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
COVER SHEET

SCALE: 1"=40' ON 22"X34" SHEET 01 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ / 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-01 | A |

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT #25EG054
WORK ORDER #XXXX

Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)
Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\users\tljohnson\projectwisefsl\d0399945\
Oct 10, 2024 - 10:58am

## 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

**MURRAY HILL AVE, SPRINGFIELD, MA** — **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 |
| 246 | 578185 | FITTING,COUPLING, VENTED, INSULATED, 6 IN, W/ END CAP, FOR STEEL PIPE, EZB6VIUMG | 4 | EA |
| 60 | 584303 | FITTING,TEE, 2 IN IPS X 2 IN IPS, HDPE, ELECTROFUSION HIGH VOLUME TAPPING TEE WITH BUTT FUSION OUTLET, HDPE, ASTM F1055, BLACK, GFCP | 1 | 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 | 3869 | FT |
| 86 | 602030 | SADDLE,PIPE, TEE, BRANCH, 6 IN 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 | 7 | 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 | 4 | EA |
| 43 | 610062 | BOX VALVE, EXTENTION, 18 X 24 IN LONG, CMA 4232860 | 10 | EA |
| 488 | 610264 | NIPPLE,PIPE, NON-BLOWING, DRILL, 1-1/4 IN X 3 IN, WELDED, 1440 PSIG, CMA 2485855 | 1 | EA |
| 489 | 610272 | NIPPLE,PIPE, NON-BLOWING, DRILL, 2 IN X 3 IN, WELDED, 1440 PSIG, W/ STEEL CAP, CMA 42218507 | 1 | 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 | 5 | EA |
| 92 | 610763 | FITTING,CAP, END, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 750830 | 3 | EA |
| 98 | 610764 | FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100 | 5 | 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 | 7 | EA |
| 1653 | 620808 | FITTING,CAP, LYCOFIT, 1 IN IPS SDR 11, PLASTIC, ASTM F1924 | 7 | EA |

**MURRAY HILL AVE, SPRINGFIELD, MA** — **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 | 3 | 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 | 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 | 4 | 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 | 10 | 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 | 13 | EA |
| 370 | 513679 | CABLE, INSULATED, MDP, #12 AWG, 7 STR, YELLOW, POLYETHYLENE-30, SOFT DRAWN CU, 500 FT/RL, FOR USED AS PIPE LOCATOR | 6256 | FT |
| 10 | 542539 | CAP,PIPE, 6 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 6 | EA |
| 201 | 542566 | CAP,PIPE, 6 IN X 6.065 IN BORE X 0.280 IN THK WALL, WELDED END, CS, ASTM A234 GR B, ANSI B16.9, FOR USE IN GAS DISTRIBUTION | 1 | 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 | 4 | EA |
| 231 | 543029 | CLAMP,PIPE, REPAIR, 6 IN IPS, SS, W/2 IN TAP | 1 | EA |
| 21 | 545342 | ELBOW,PIPE, 90 DEG, 6 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 4 | EA |
| 19 | 545367 | ELBOW,PIPE, 90 DEG, 2 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 7 | EA |
| 74 | 546254 | FITTING,TRANSITION, 6 IN IPS CS X 6 IN IPS PE4710, SDR 11, STEEL WELD X PLASITC BUTT END | 1 | EA |
| 6 | 554009 | PIPE, 6 IN IPS X 0.602 IN THK WALL SDR 11, 6.625 IN OD, 40 FT LG, POLYETHYLENE, PE3408/PE100 | 2387 | FT |
| 359 | 554877 | PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 7 | EA |
| 361 | 554878 | PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 15 | 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 |
| 31 | 560680 | TEE,PIPE, 6 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 2 | EA |
| 29 | 560705 | TEE,PIPE, 2 IN IPS SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 5 | EA |
| 36 | 562078 | VALVE,BALL, 6 IN IPS, POLYETHYLENE, SDR 11, P100, BUTT WELD, W/ FULL PORT OPENING, BLACK FINISH | 3 | EA |
| 33 | 562087 | VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING | 10 | 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, | 7 | 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 | 5 | EA |
| 223 | 578017 | CLAMP,PIPE, 3 IN DIA, 9 IN LG, W/ 1-1/4 IN ID OUTLET, FOR CAST IRON PIPE, FULL CIRCLE REPAIR, SMITH BLAIR STYLE 234 | 1 | EA |
| 224 | 578018 | CLAMP,PIPE, 3 IN DIA, 6 IN LG, W/ 1-1/4 IN OUTLET, FULL CIRCLE REPAIR, FOR STEEL PIPE, SMITH BLAIR STYLE 234 | 2 | 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 | FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE | 14 | EA |

ISSUED FOR REVIEW

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA

PROJECT # 25EG054 / WORK ORDER # XXXX

NOTES

SCALE:1"=40' ON 22"X34" SHEET 02 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-02 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

## 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 |
| R | Single Customer Regulator |
| M | Meter |
| MR | Meter with Regulator |
| | Test Point (Station) |
| T | Gas Service Tie-over |
| R | Gas Service Replacement |
| MMO | Meter Move Out |

### Swing Tie Symbology

| | |
|---|---|
| T | Telephone Manhole |
| D | Drain Manhole |
| E | Electric Manhole |
| | Catch Basis |
| S | Sewer Manhole |
| | Fire Hydrant |
| | Utility Pole |
| | Property Marker |
| T | Telephone Pedestal |
| C | Television Pedestal |
| U | Unknown Manhole |
| | Water Box |
| | Water Gate |
| E | Electric Pedestal |
| | Iron Pin |
| | Light Pole |
| | INSIDE METER |
| | OUTSIDE METER |

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA

PROJECT # 25EG054 / WORK ORDER # XXXX

LEGEND

SCALE:1"=40' ON 22"X34" SHEET 03 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-03 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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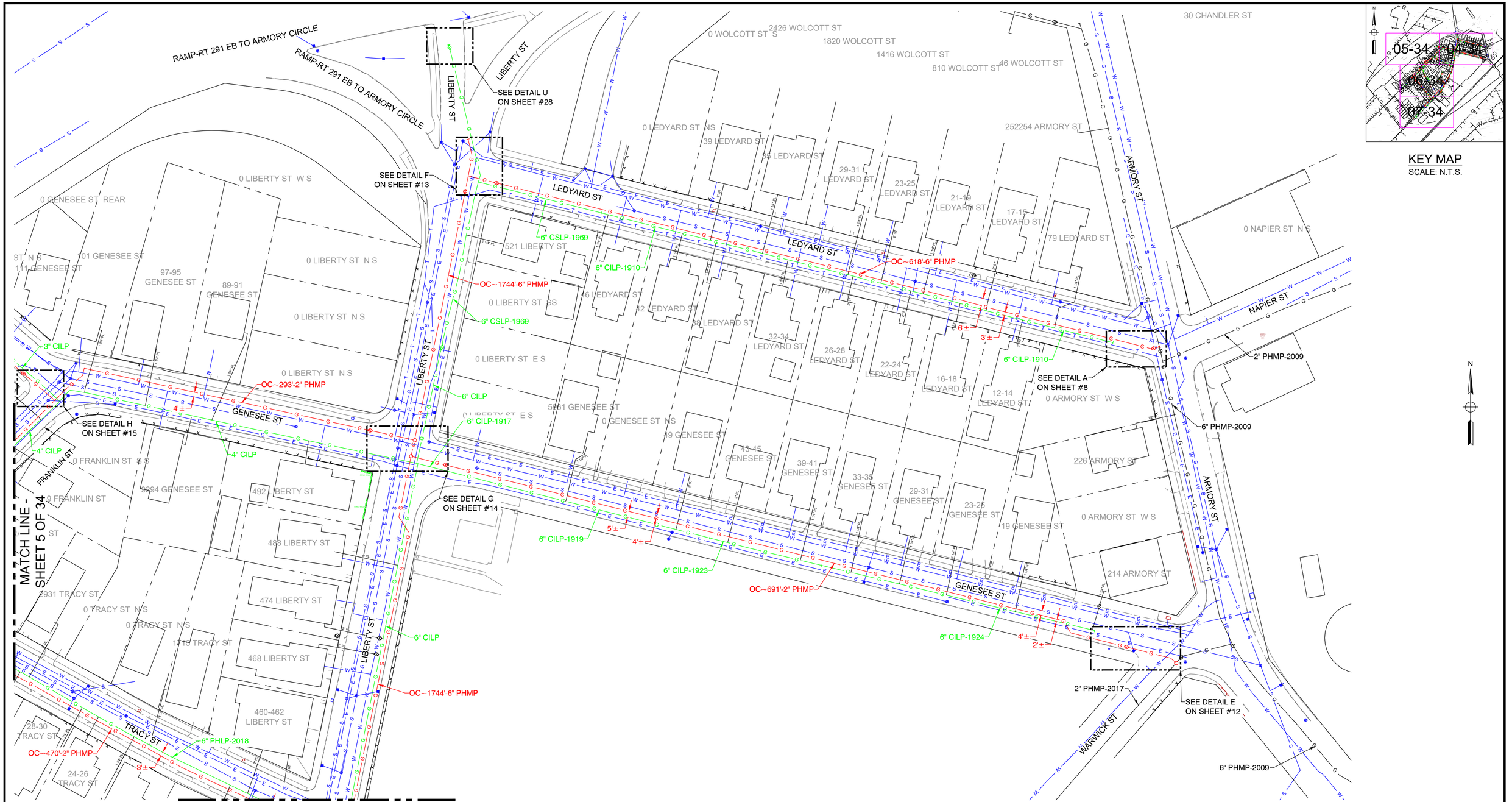
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)







KEY MAP
SCALE: N.T.S.

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |
| | Revision/Status | | |

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

| | | | |
|---|---|---|---|
| MURRAY HILL AVE, SPRINGFIELD, MA | | | |
| PROJECT # 25EG054 / WORK ORDER # XXXX | | | |
| PROJECT LOCATION PLANS | | | |
| SCALE: 1"=40' ON 22"X34" | | SHEET 04 OF 34 | |
| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-04 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

142144 STAFFORD ST
148150 STAFFORD ST
154156 STAFFORD ST
0 STAFFORD ST N W S
0 STAFFORD ST N W S
0 STAFFORD ST S E S
184186 STAFFORD ST
163165 STAFFORD ST
0 STAFFORD ST S S
195 STAFFORD ST
STAFFORD ST
125127 STAFFORD ST
129131 STAFFORD ST
0 STETSON ST W S
0 STETSON ST W S
131133 NURSERY ST
NURSERY ST
125127 NURSERY ST
136 NURSERY ST
0 NURSERY ST E S
GENESEE ST
3537 STETSON ST
0 STETSON ST R E S
0 STETSON ST E S
RAMP-ARMORY CIR TO R
RAMP-RT 291 EB TO ARMORY CIRCLE
SPRINGFIELD EXPRESSWAY (US 291)
SPRINGFIELD EXPRESSWAY (US 291)
HALSEY ST
NURSERY ST
0 GENESEE S
GENESEE ST
SEE DETAIL I ON SHEET #16
3" CILP
3'±
OC~71'-2" PHMP
0 GENESEE ST S S
110 GENESEE ST
0 GENESEE ST REAR
452 FRANKLIN ST
446-448 FRANKLIN ST
442-444 FRANKLIN ST
0 DUNN ST E S
436-438 FRANKLIN ST
OC~989'-2" PHMP
SEE DETAIL K ON SHEET #18
4" CILP
432 FRANKLIN ST
439 FRANKLIN ST
6" PHLP-2018
TRACY ST
FRANKLIN ST
426-428 FRANKLIN ST
0 DUNN ST E S
6" CILP
0 FRANKLIN ST S S
5'±
3'±
4'±
OC~470'-2" PHMP
422-424 FRANKLIN ST
4'±
34-36 TRACY ST
OC~989'-2" PHMP
421-423 FRANKLIN ST
412-416 FRANKLIN ST
419 FRANKLIN ST
32 TRACY ST
MATCH LINE - SHEET 4 OF 34
MATCH LINE - SHEET 6 OF 34

KEY MAP
SCALE: N.T.S.

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY
MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PROJECT LOCATION PLANS
SCALE: 1"=40' ON 22"X34" SHEET 05 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-05 | A |

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Murray Hill Ave - Pro Drawing Rev0.dwg
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Oct 10, 2024 - 10:58am

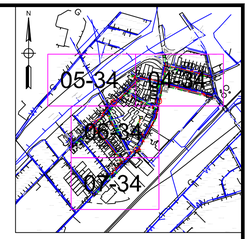
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

MATCH LINE - SHEET 5 OF 34

MATCH LINE - SHEET 4 OF 34

MATCH LINE - SHEET 7 OF 34

KEY MAP
SCALE: N.T.S.




390 FRANKLIN ST
404-406 FRANKLIN ST
398-400 FRANKLIN ST
385-387 FRANKLIN ST
0 FRANKLIN ST N S
0 FRANKLIN ST N S
0 FRANKLIN ST N S
0 CRANE ST W S
0 CRANE ST WS
372-374 FRANKLIN ST
366-368 FRANKLIN ST
0 FRANKLIN ST N S
356-358 FRANKLIN ST
333 FRANKLIN ST
327-329 FRANKLIN ST
57 MURRAY HILL AV
53 MURRAY HILL AV
49 MURRAY HILL AV
48 MURRAY HILL AV
54 MURRAY HILL AV
43 MURRAY HILL AV
50-52 NURSERY ST
0 NURSERY ST WS
35-40 NURSERY ST
0 MURRAY HILL AV E S
0 NURSERY ST W S
33-35 MURRAY HILL AV
563 NURSERY ST
50 TRACY ST
446 LIBERTY ST
442 LIBERTY ST
434 LIBERTY ST
418 LIBERTY ST
410 LIBERTY ST
0 LIBERTY ST W S
417 LIBERTY ST
58 WEBSTER ST
54-56 WEBSTER ST
57-59 WEBSTER ST
50 WEBSTER ST
44 WEBSTER ST
53-51 WEBSTER ST
49-47 WEBSTER ST
43 WEBSTER ST
39 WEBSTER ST
44-46 MURRAY HILL AV
40 MURRAY HILL AV
34 MURRAY HILL AV
30 MURRAY HILL AV
20 MURRAY HILL AV
14 MURRAY HILL AV
3840 WEBSTER ST
3436 WEBSTER ST
2830 WEBSTER ST

FRANKLIN ST
CRANE ST
UNDERWOOD ST
WEBSTER ST
MURRAY HILL AVE
NURSERY ST
LIBERTY ST
COLUMBIA TER
TRACY ST
HEYWOOD ST

SEE DETAIL P ON SHEET #23
SEE DETAIL S ON SHEET #26
SEE DETAIL B ON SHEET #9
SEE DETAIL Q ON SHEET #24
SEE DETAIL W ON SHEET #30
SEE DETAIL V ON SHEET #29
SEE DETAIL O ON SHEET #22
SEE DETAIL M ON SHEET #20
SEE DETAIL N ON SHEET #21
SEE DETAIL J ON SHEET #17
SEE DETAIL L ON SHEET #19
SEE DETAIL D ON SHEET #11

6" CILP
6" PHLP-2003
4" PHLP-2003
OC–989'-2" PHMP
6" CILP-1916
OC–283'-2" PHMP
6" CILP-1917
6" CILP-1932
OC–635'-2" PHMP
4" CILP
2" PHMP-2018
6" PHMP-2018
2" PHMP-2009
6" CILP-1914
OC–470'-2" PHMP
6" PHLP-2018
OC–437'-2" PHMP
OC–1744'-6" PHMP
3" CILP
OC–25'-6" PHMP
6" CSLP-1966
6" CSMP-1966

4'±
3'±
8'±
5'±
6'±
2'±

N

EGMA DRAWING TEMPLATE - 02-28-2023
Murray Hill Ave - Pro Drawing Rev0.dwg
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Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |
| | Revision/Status | | |

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PROJECT LOCATION PLANS
SCALE: 1"=40' ON 22"X34" SHEET 06 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-06 | A |

Oct 10, 2024 - 10:58am

MATCH LINE - SHEET 6 OF 34

51 VINTON ST
4745 VINTON ST
37 VINTON ST
0 VINTON ST REAR
0 VINTON ST E S
2725 VINTON ST
2321 VINTON ST
1715 VINTON ST
30 VINTON ST
26 VINTON ST
2022 VINTON ST
1416 VINTON ST
1513 CASS ST
29 WEBSTER ST
25 WEBSTER ST
1719 WEBSTER ST
911 WEBSTER ST
20 WEBSTER ST
1416 WEBSTER ST
366-368 LIBERTY ST
362-364 LIBERTY ST
356-358 LIBERTY ST
350 LIBERTY ST
346 LIBERTY ST
0 LIBERTY ST NS
334-336 LIBERTY ST
330-332 LIBERTY ST
324-326 LIBERTY ST
312314 LIBERTY ST
308310 LIBERTY ST
304306 LIBERTY ST
298300 LIBERTY ST
0 LIBERTY ST N S
290292 LIBERTY ST
0 LIBERTY ST S S
401 LIBERTY ST
340 TAYLOR ST
WEBSTER ST
LIBERTY ST
VINTON ST
MURRAY HILL AVE
HEYWOOD ST
2'±
5'±
4" CILP
OC~635'-2" PHMP
7'±
SEE DETAIL R ON SHEET #25
OC~1744'-6" PHMP
9'±
8'±
2" PHMP-2009
6" CILP
SEE DETAIL C ON SHEET #10
6" PHMP-2009
4" CILP
6" CILP
SEE DETAIL T ON SHEET #27

KEY MAP
SCALE: N.T.S.

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |
| | Revision/Status | | |

ISSUED FOR REVIEW

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

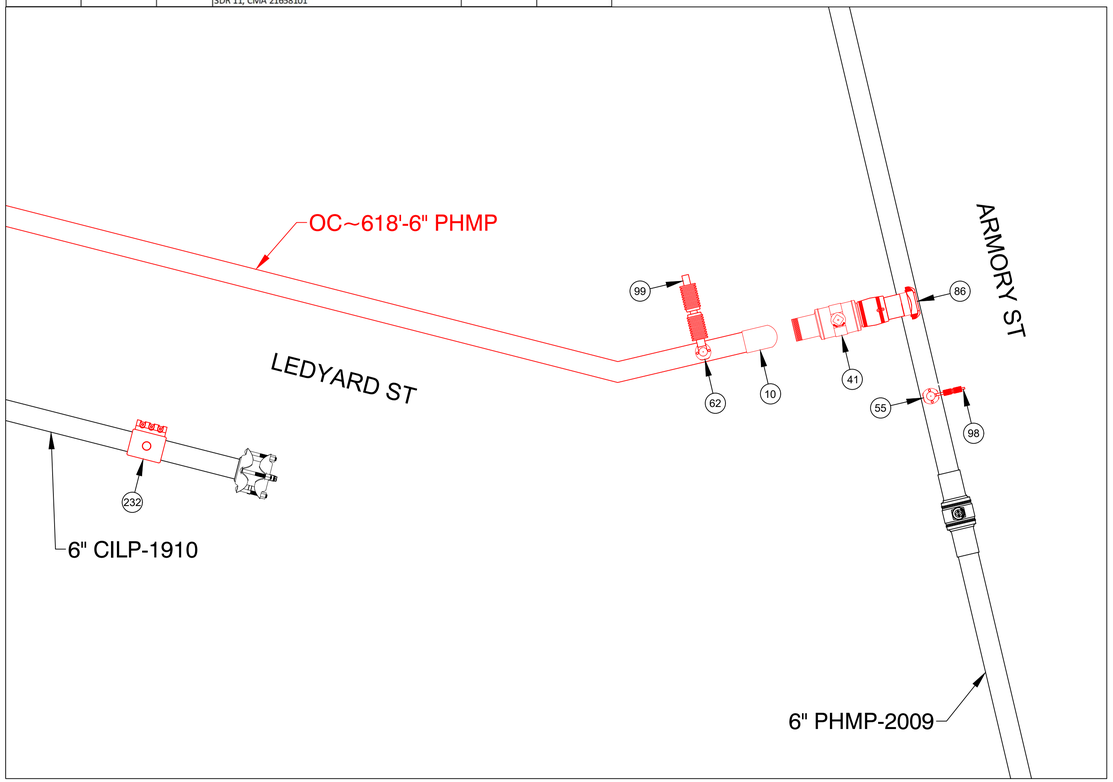
MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PROJECT LOCATION PLANS
SCALE: 1"=40' ON 22"X34" SHEET 07 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-07 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\users\tljohnson\projectwise\fs1\d0399945\
Oct 10, 2024 - 10:58am

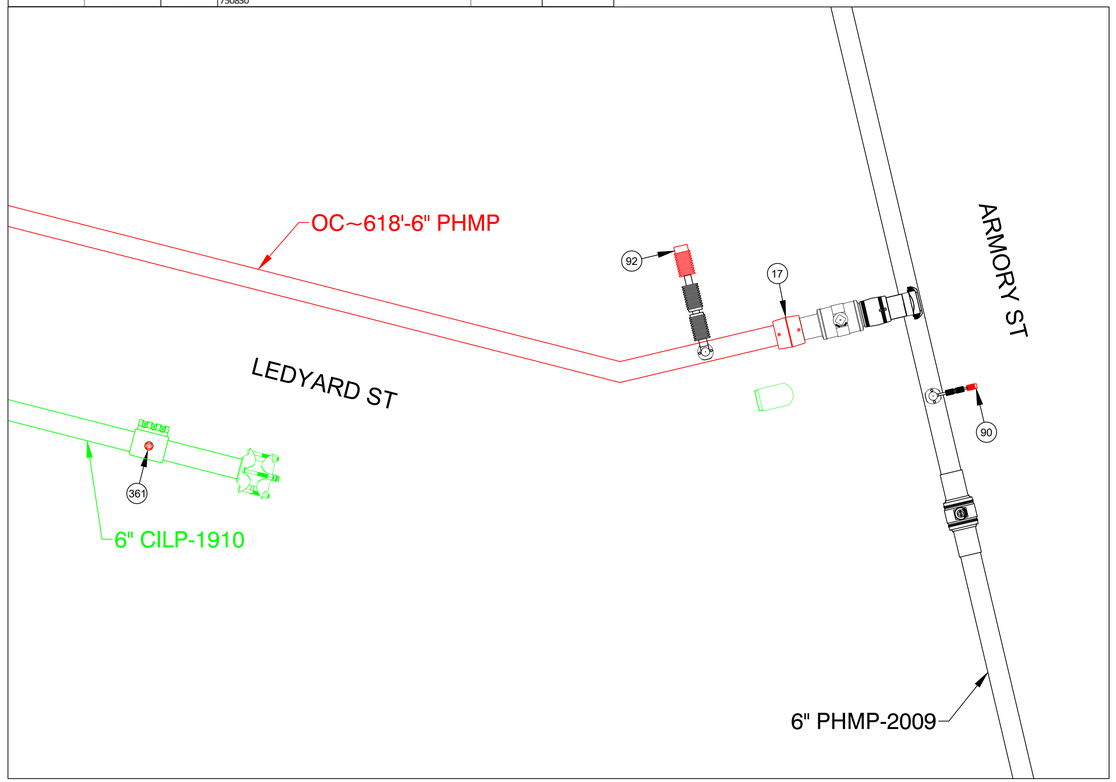
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | DETAIL "A" PREPARATORY | | |
|---|---|---|---|---|---|
| **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 | 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 |
| 41 | 63056012 | 610701 | VALVE,BALL, POLYTAPP, FULL PORT, 6 IN, HDPE, THREADED X ELECTROFUSION, CMA 1609806 | 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 |
| 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 |
| 86 | 63056006 | 602030 | SADDLE,PIPE, TEE, BRANCH, 6 IN IPS X 6 IN IPS, ELECTROFUSION, POLYTAPP | 1 | EA |
| 98 | 63424035 | 610764 | FITTING,COUPLING, PIPE, LYCOFIT, 1/2 IN CTS X 0.090 IN WALL THK, PLASTIC, CMA 21658100 | 1 | EA |
| 99 | 63424109 | 610772 | FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101 | 1 | EA |




PREPARATORY TIE-IN DETAIL A
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | DETAIL "A" FINAL | | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 17 | 63051039 | 500856 | COUPLING, 6 IN IPS, ELECTROFUSION, HDPE, BLACK, ASTM F1055, GFCP | 1 | EA |
| 361 | 19080340 | 554878 | PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 1 | EA |
| 90 | 63424221 | 610757 | FITTING,CAP, END, LYCOFIT, 1/2 IN CTS X 0.090 IN THK WALL, PLASTIC, CMA 750823 | 1 | EA |
| 92 | 63424023 | 610763 | FITTING,CAP, END, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 750830 | 1 | EA |




FINAL TIE-IN DETAIL A
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 08 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-08 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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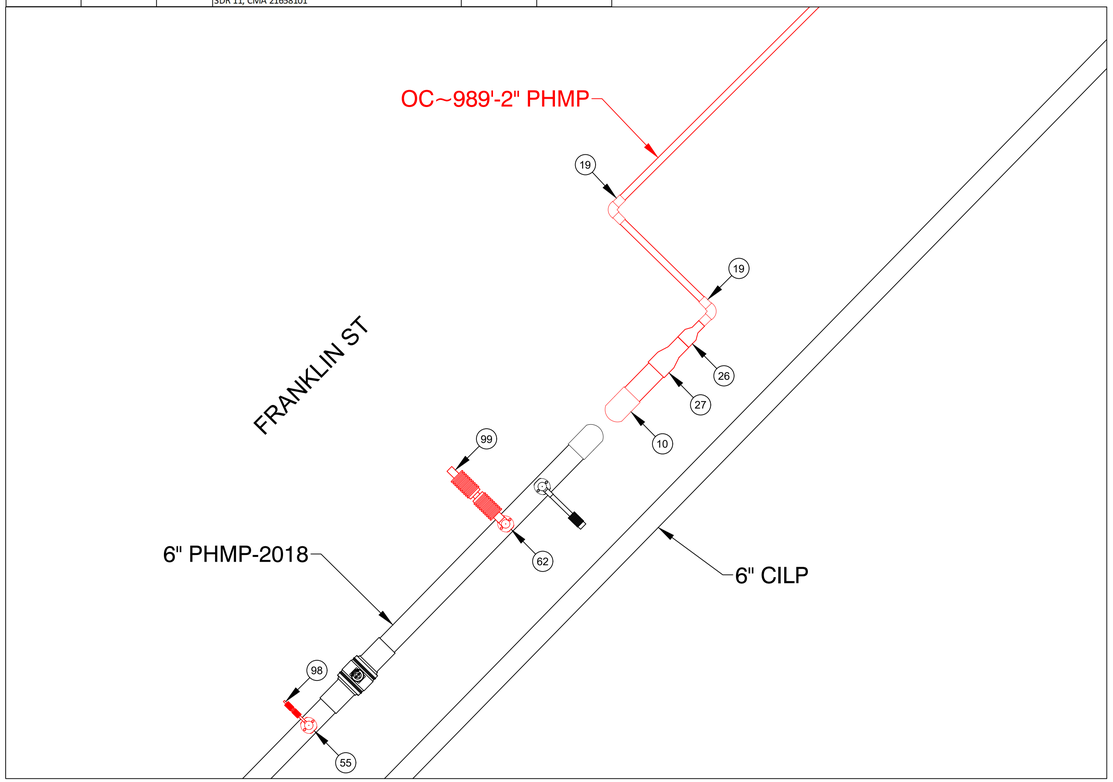
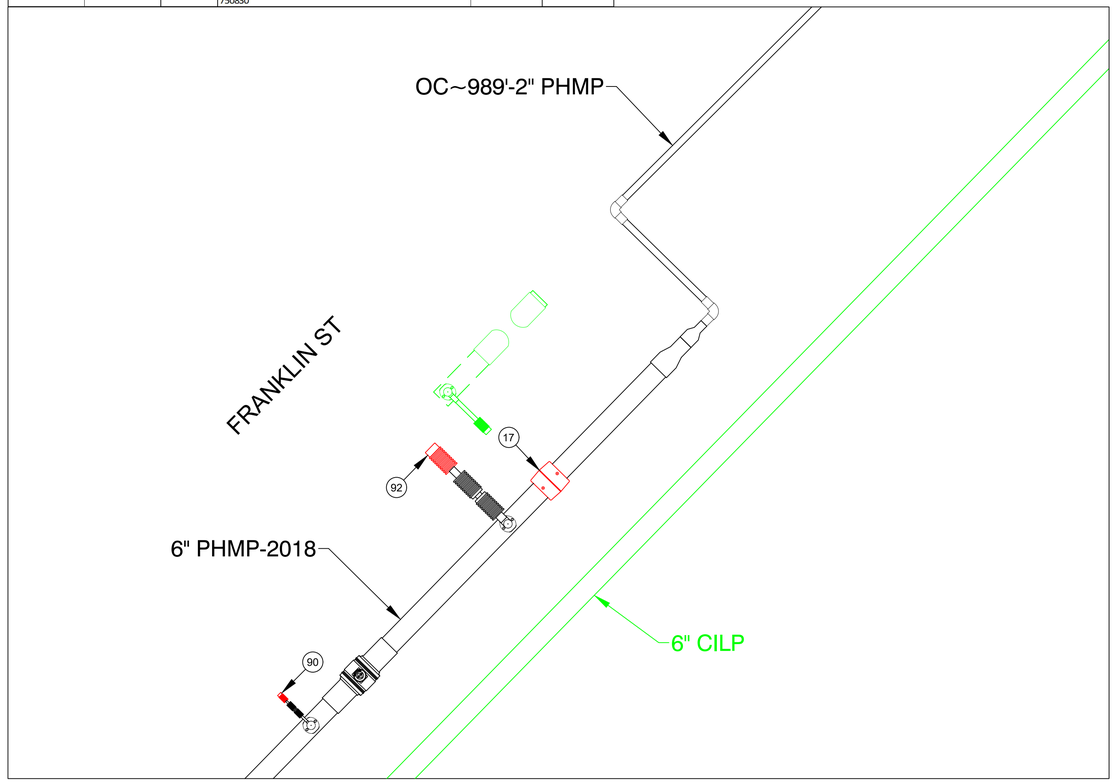
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "B" PREPARATORY | |
|---|---|---|---|---|---|
| **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 | 1 | EA |
| 19 | 63078117 | 545367 | ELBOW,PIPE, 90 DEG, 2 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 2 | 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 |
| 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 |
| 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 | 1 | EA |
| 99 | 63424109 | 610772 | FITTING,COUPLING, REPAIR, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 21658101 | 1 | EA |




PREPARATORY TIE-IN DETAIL B
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "B" FINAL | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 17 | 63051039 | 500856 | COUPLING, 6 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 |
| 92 | 63424023 | 610763 | FITTING,CAP, END, LYCOFIT, 2 IN IPS, PLASTIC, SDR 11, CMA 750830 | 1 | EA |




FINAL TIE-IN DETAIL B
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 09 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-09 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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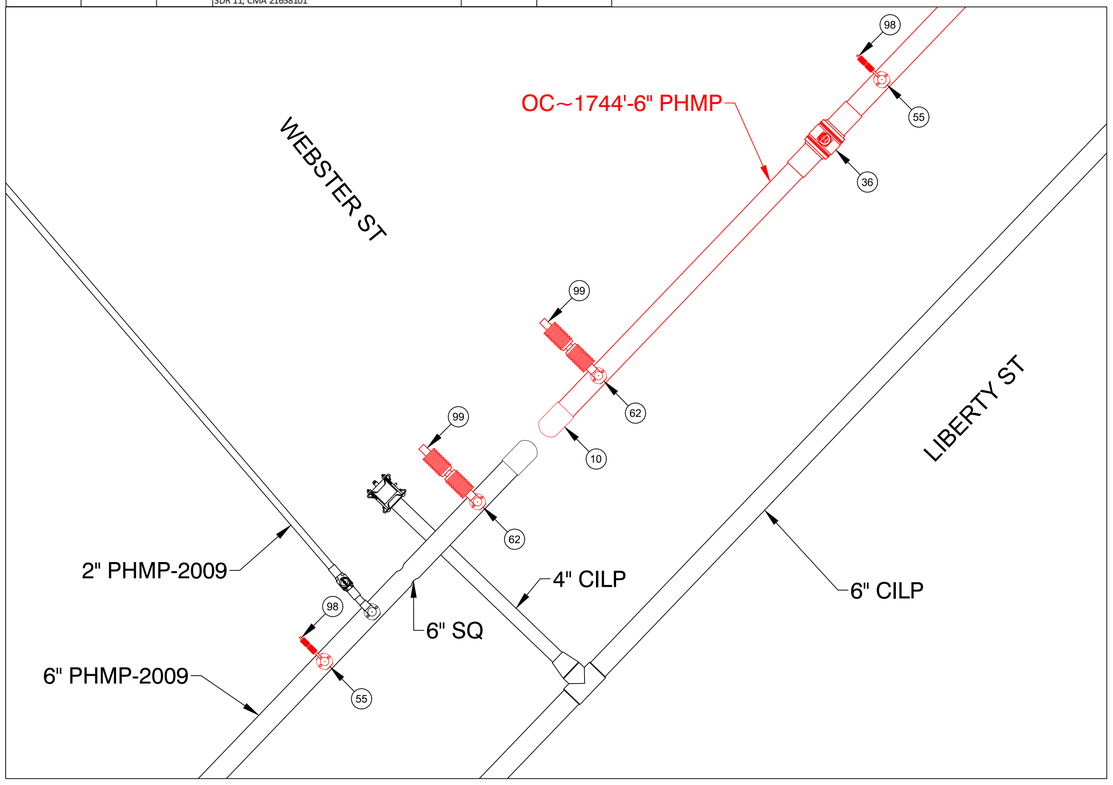
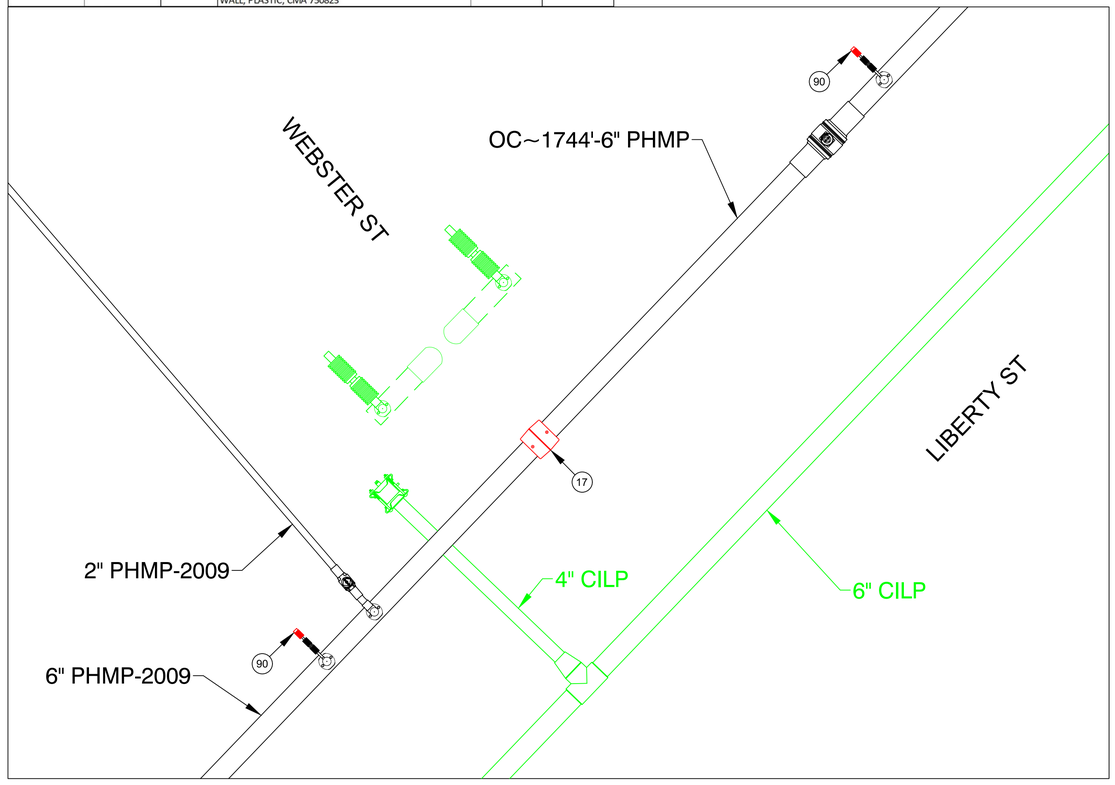
Oct 10, 2024 - 4:59pm
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "C" PREPARATORY | |
|---|---|---|---|---|---|
| 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 | 1 | EA |
| 36 | 14281745 | 562078 | VALVE,BALL, 6 IN IPS, POLYETHYLENE, SDR 11, P100, BUTT WELD, W/ FULL PORT OPENING, BLACK FINISH | 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 | 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 | 2 | 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 | 2 | EA |




PREPARATORY TIE-IN DETAIL C
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "C" FINAL | |
|---|---|---|---|---|---|
| REQUIRED BILL OF MATERIALS | | | | | |
| Item Number | MRC Stock Number | Maximo Part Number | Description | Quantity | Units |
| 17 | 63051039 | 500856 | COUPLING, 6 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 | 2 | EA |




FINAL TIE-IN DETAIL C
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 10 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-10 | A |

EGMA DRAWING TEMPLATE - 02-28-2023
Murray Hill Ave - Pro Drawing Rev0.dwg
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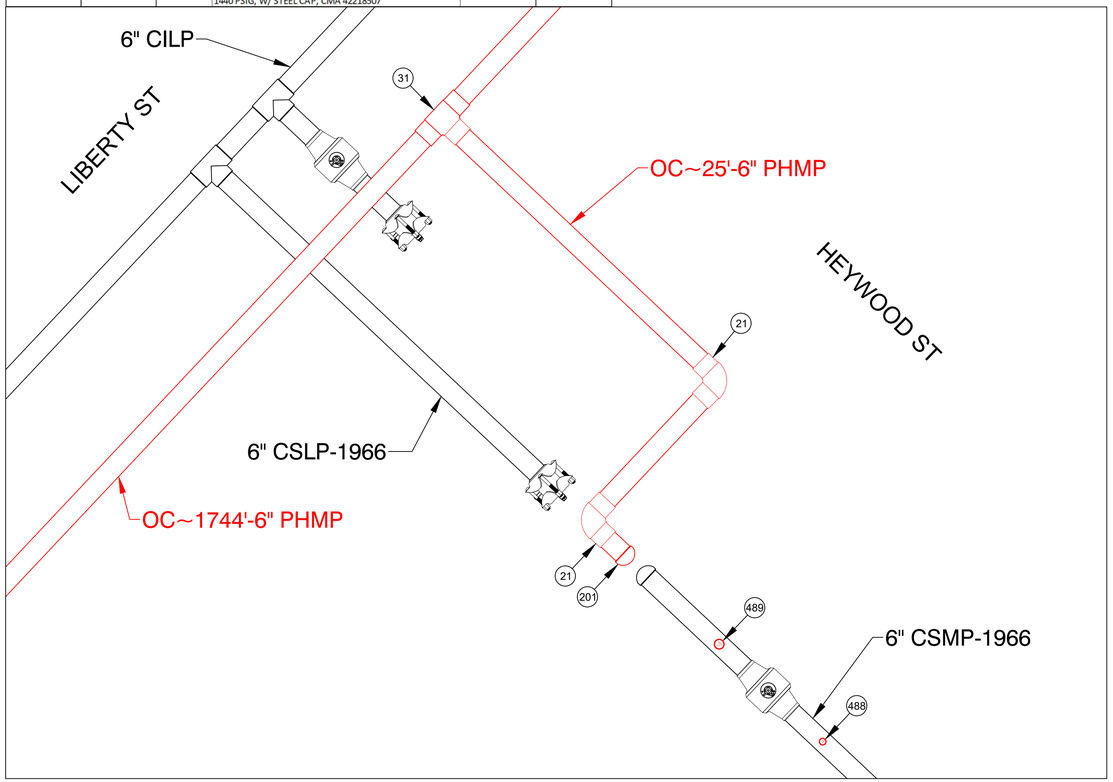
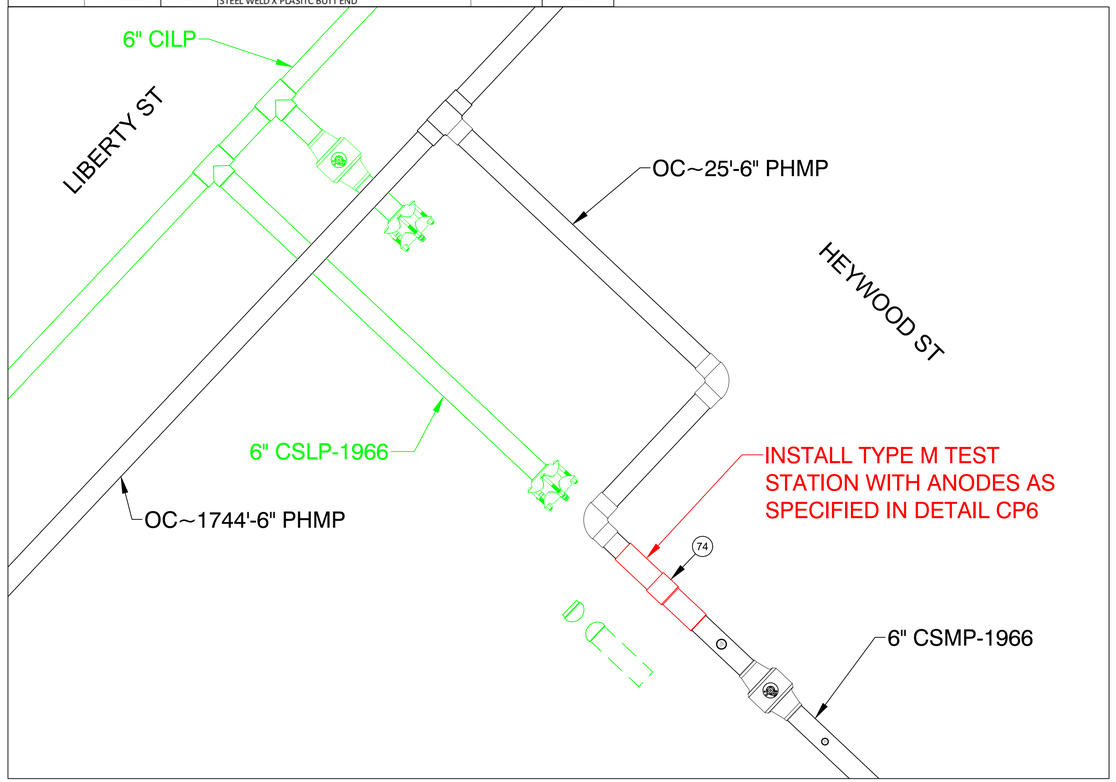
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "D" PREPARATORY | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 201 | 16080543 | 542566 | CAP,PIPE, 6 IN X 6.065 IN BORE X 0.280 IN THK WALL, WELDED END, CS, ASTM A234 GR B, ANSI B16.9, FOR USE IN GAS DISTRIBUTION | 1 | EA |
| 21 | 63078150 | 545342 | ELBOW,PIPE, 90 DEG, 6 IN SDR 11, BUTT WELD ENDS, POLYETHYLENE, P100 | 2 | EA |
| 31 | 63078458 | 560680 | TEE,PIPE, 6 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 1 | EA |
| 488 | 63420117 | 610264 | NIPPLE,PIPE, NON-BLOWING, DRILL, 1-1/4 IN X 3 IN, WELDED, 1440 PSIG, CMA 2485855 | 1 | EA |
| 489 | 63420105 | 610272 | NIPPLE,PIPE, NON-BLOWING, DRILL, 2 IN X 3 IN, WELDED, 1440 PSIG, W/ STEEL CAP, CMA 42218507 | 1 | EA |




PREPARATORY TIE-IN DETAIL D
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "D" FINAL | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 74 | 63151164 | 546254 | FITTING,TRANSITION, 6 IN IPS CS X 6 IN IPS PE4710, SDR 11, STEEL WELD X PLASITC BUTT END | 1 | EA |




FINAL TIE-IN DETAIL D
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 11 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-11 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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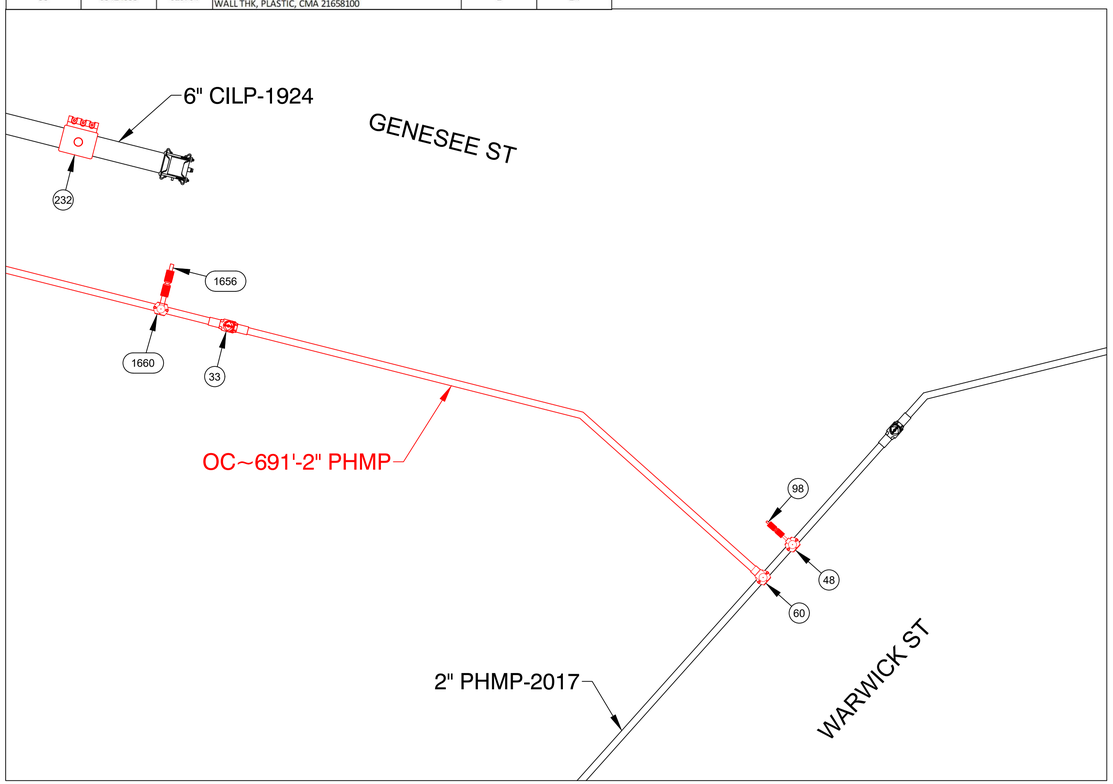
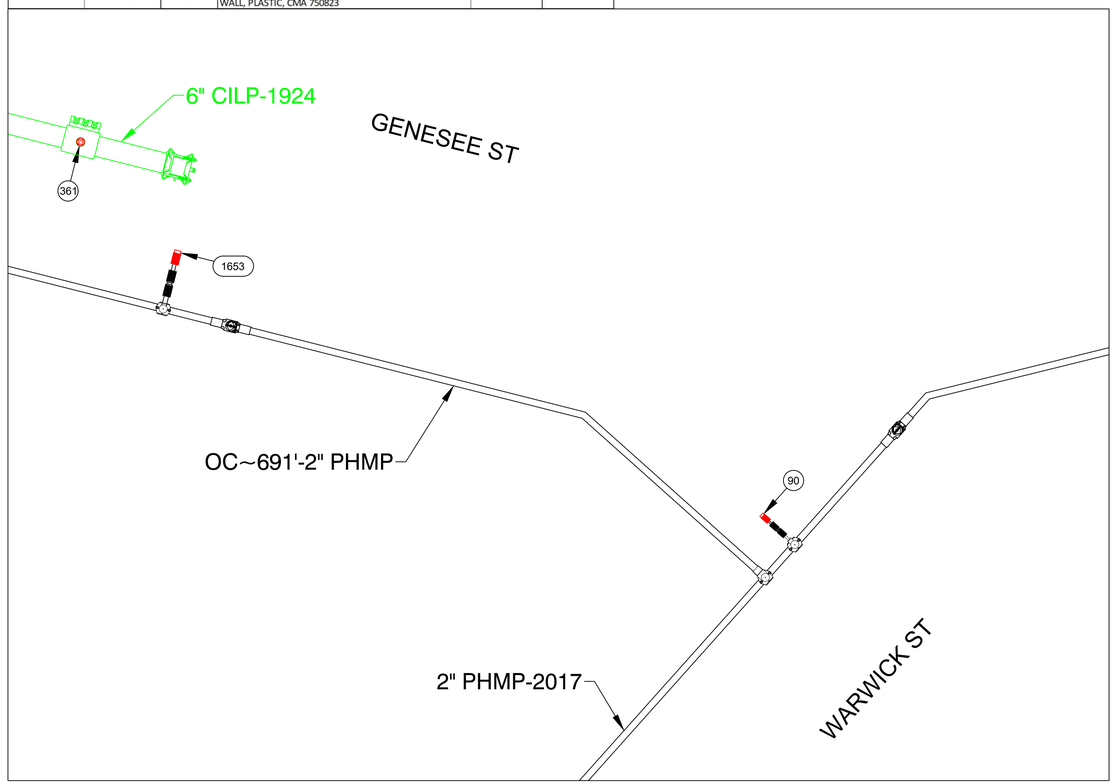
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "E" 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 |
| 232 | 63462159 | 578022 | FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE | 1 | EA |
| 33 | 14281726 | 562087 | VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING | 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 |
| 60 | 63051341 | 584303 | FITTING,TEE, 2 IN IPS X 2 IN IPS, HDPE, ELECTROFUSION HIGH VOLUME TAPPING TEE 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 E
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | 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 |
| 361 | 19080340 | 554878 | PLUG,PIPE, SQUARE HEAD, SOLID, 2 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 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 E
NOT TO SCALE

ISSUED FOR REVIEW

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
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| | | | |
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

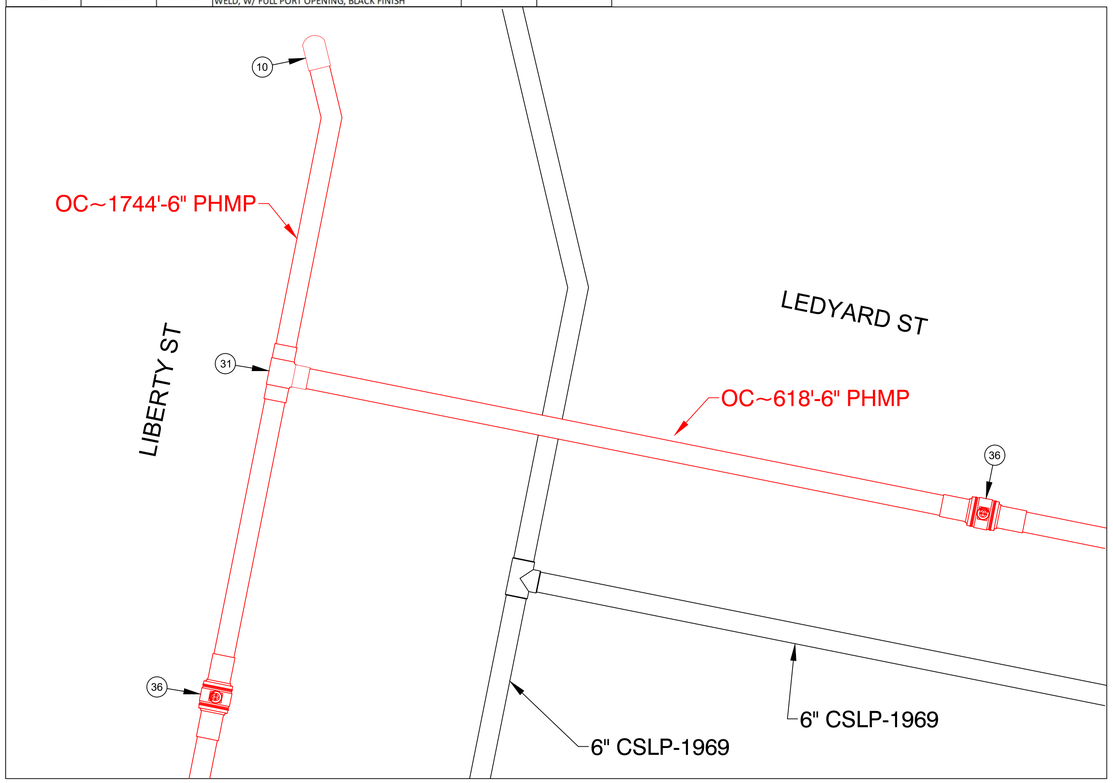
EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 12 OF 34

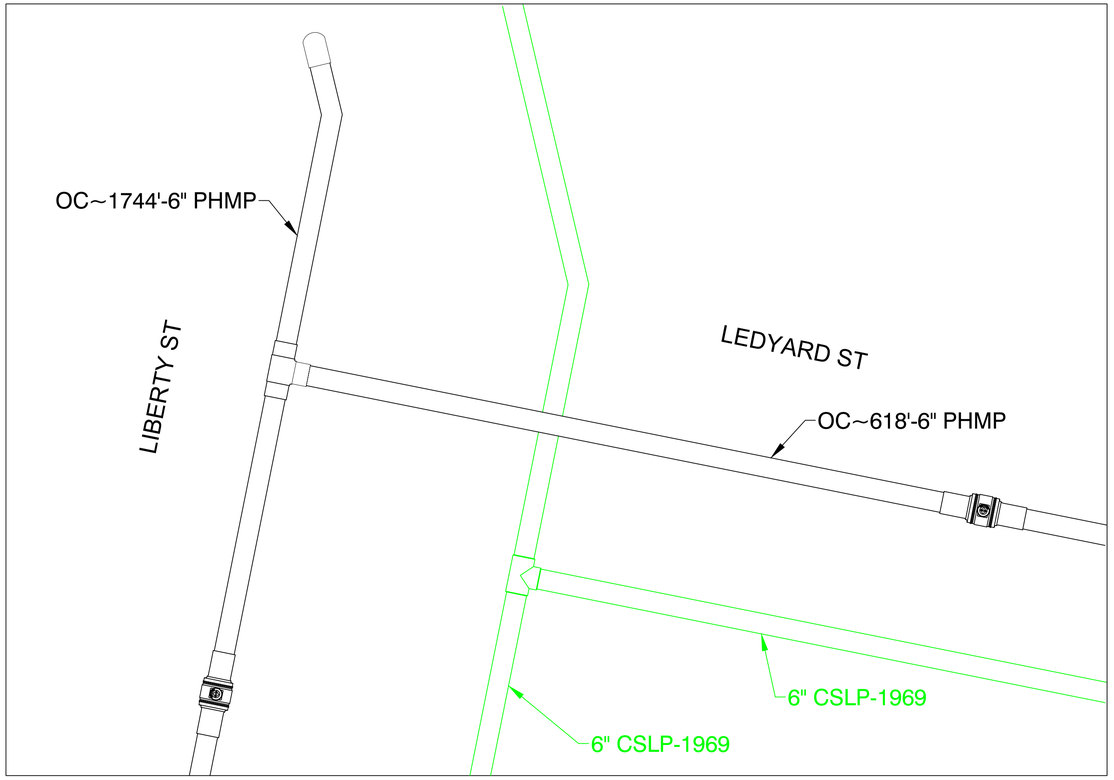
| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-12 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\users\ljohnson\projectwise\wa\d0399945\
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "F" PREPARATORY | |
|---|---|---|---|---|---|
| **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 | 1 | EA |
| 31 | 63078458 | 560680 | TEE,PIPE, 6 IN SDR 11, BUTT ENDS, POLYETHYLENE, P100 | 1 | EA |
| 36 | 14281745 | 562078 | VALVE,BALL, 6 IN IPS, POLYETHYLENE, SDR 11, P100, BUTT WELD, W/ FULL PORT OPENING, BLACK FINISH | 2 | EA |




PREPARATORY TIE-IN DETAIL F
NOT TO SCALE




FINAL TIE-IN DETAIL F
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

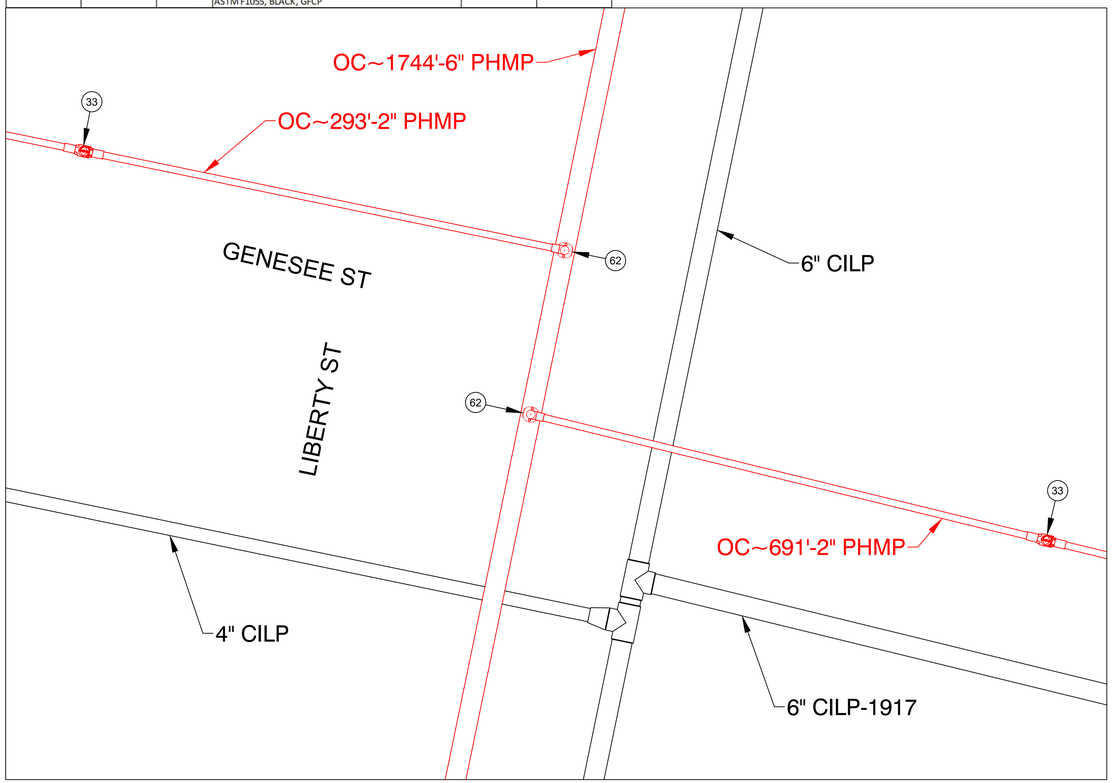
EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 13 OF 34

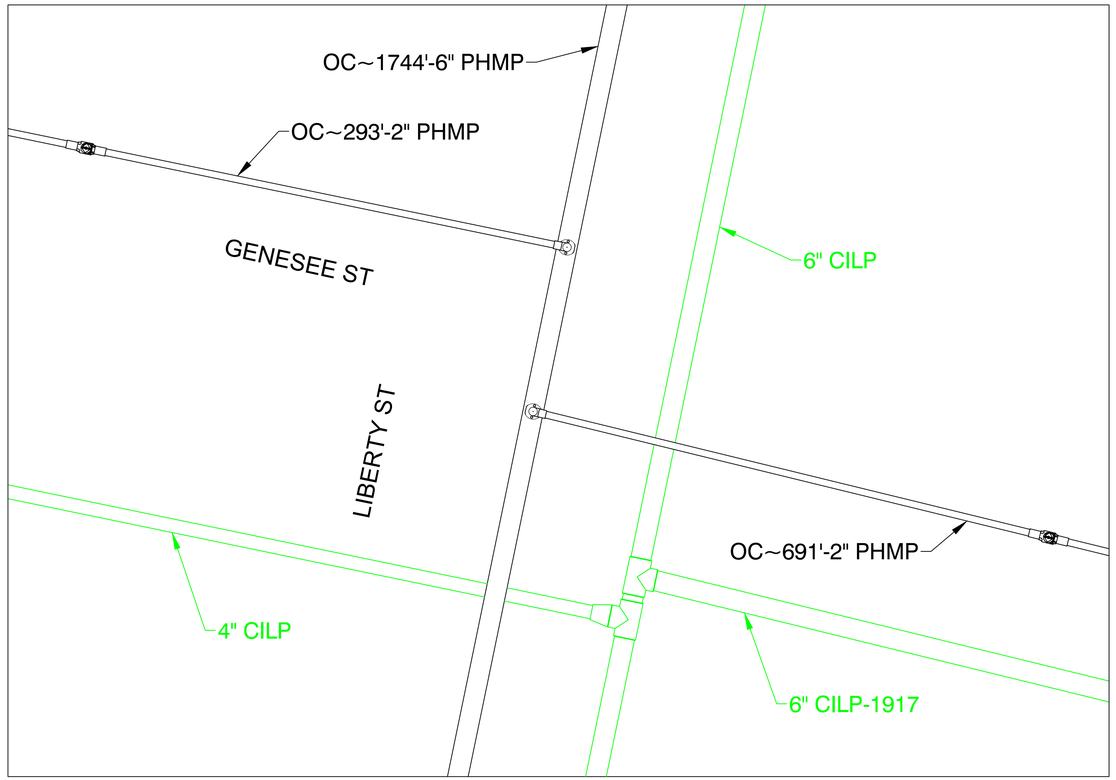
| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-13 | A |

EGMA DRAWING TEMPLATE - 02-28-2023
Murray Hill Ave - Pro Drawing Rev0.dwg
C:\users\tljohnson\projectwise\fs\d\03999451
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "G" 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 | 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 | 2 | EA |




PREPARATORY TIE-IN DETAIL G
NOT TO SCALE




FINAL TIE-IN DETAIL G
NOT TO SCALE

ISSUED FOR REVIEW

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215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 14 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-14 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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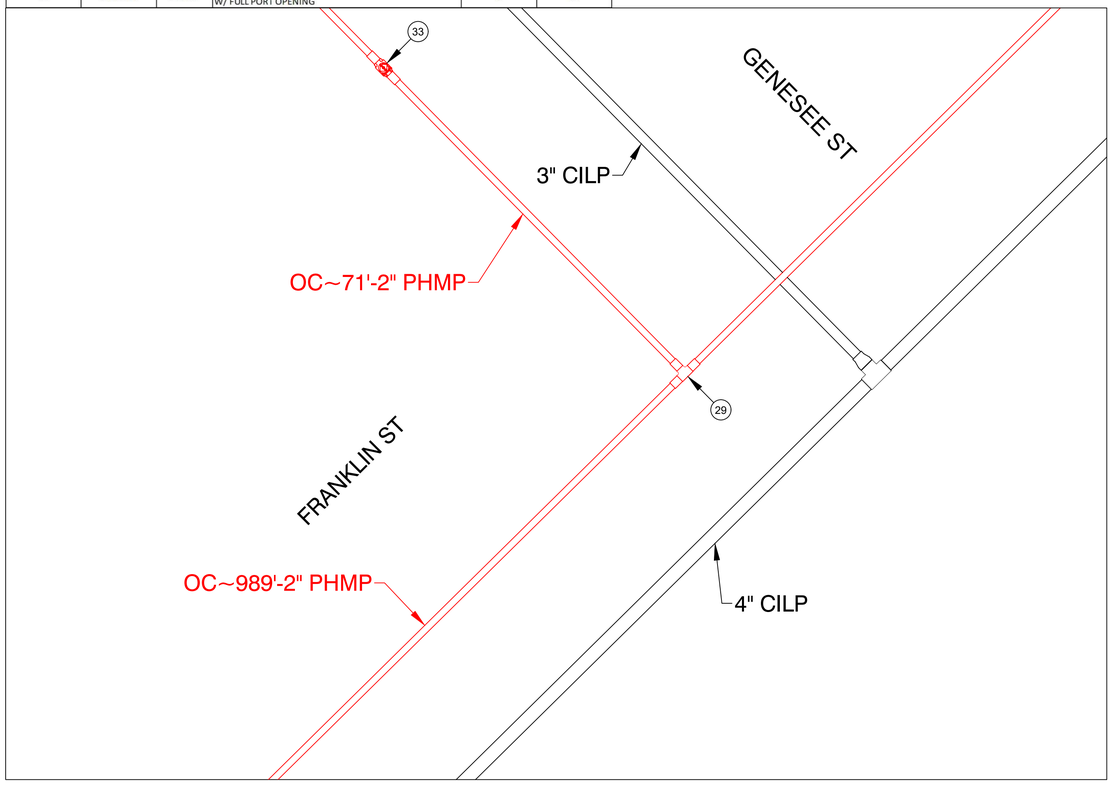
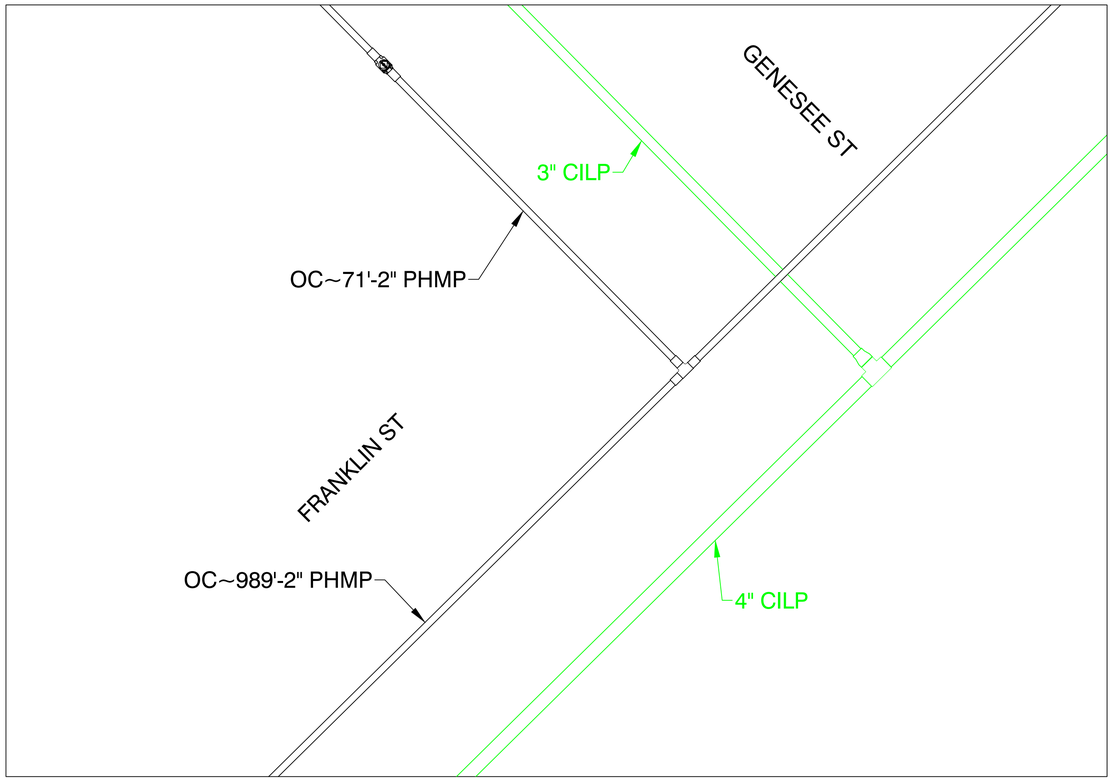
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "H" 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 H
NOT TO SCALE




FINAL TIE-IN DETAIL H
NOT TO SCALE

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

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 15 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-15 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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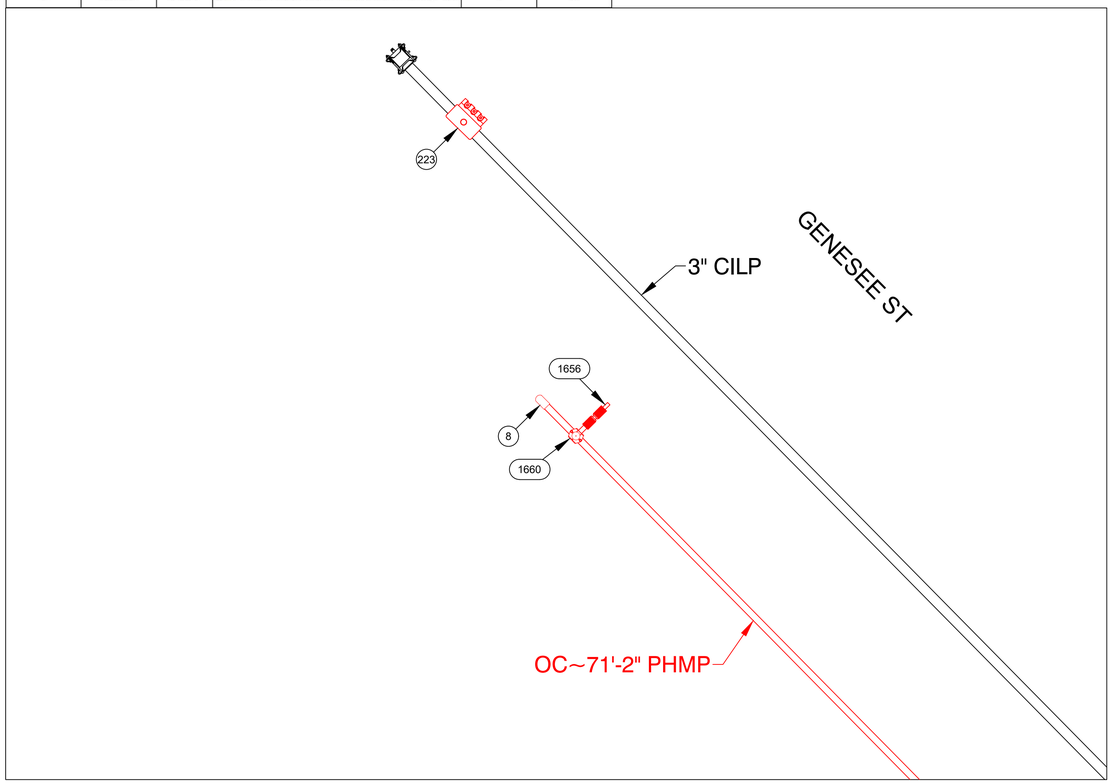
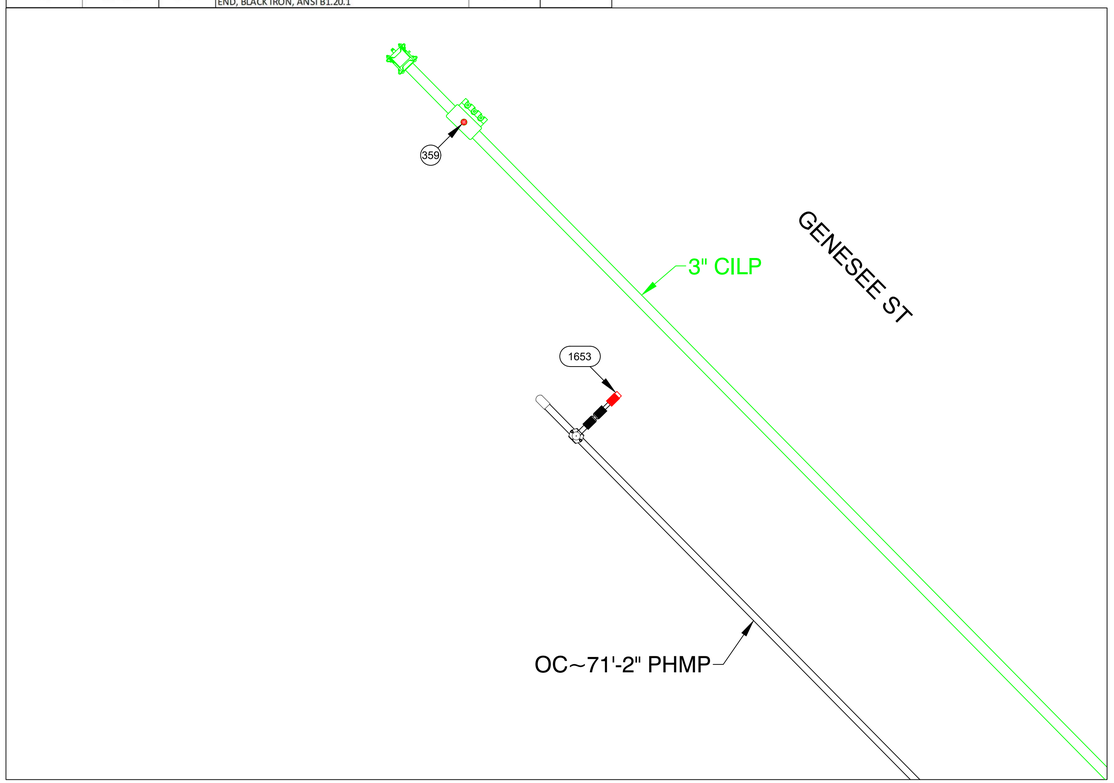
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, 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 |
| 223 | 63462217 | 578017 | CLAMP,PIPE, 3 IN DIA, 9 IN LG, W/ 1-1/4 IN ID OUTLET, FOR CAST IRON PIPE, FULL CIRCLE REPAIR, SMITH BLAIR STYLE 234 | 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

| MURRAY HILL AVE, SPRINGFIELD, 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 |
| 359 | 19080285 | 554877 | PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 1 | EA |




FINAL TIE-IN DETAIL I
NOT TO SCALE

ISSUED FOR REVIEW

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 16 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-16 | A |

EGMA DRAWING TEMPLATE - 02-28-2023
Murray Hill Ave - Pro Drawing Rev0.dwg
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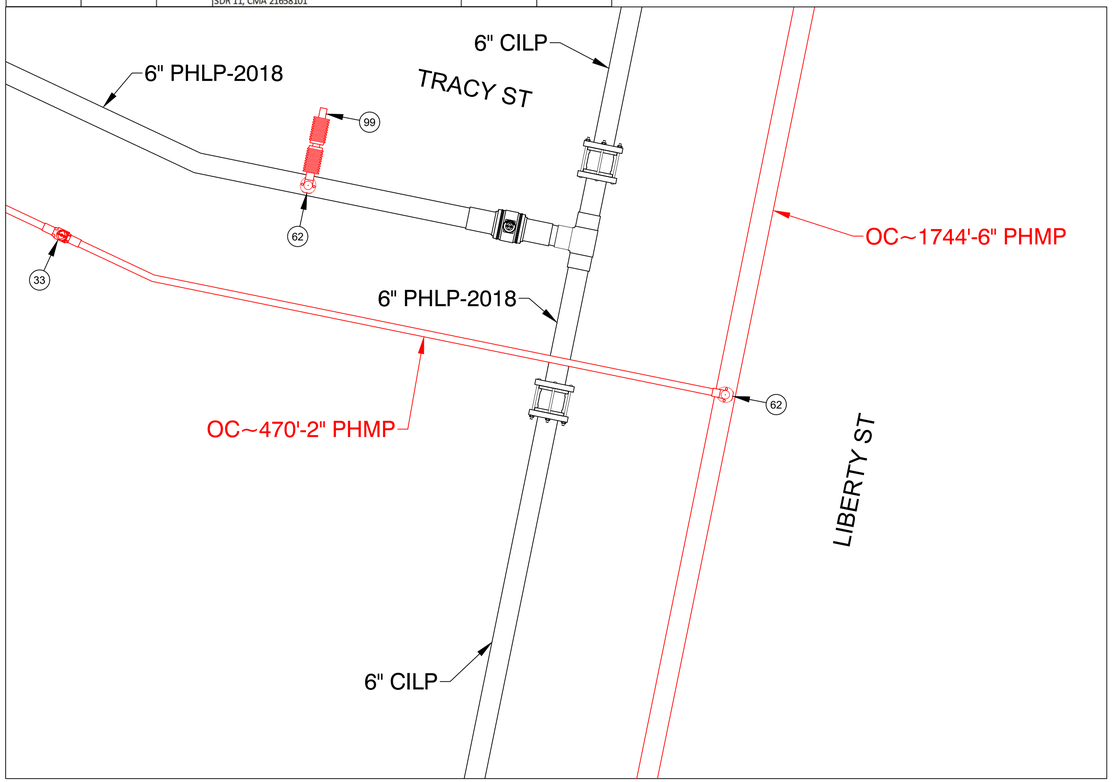
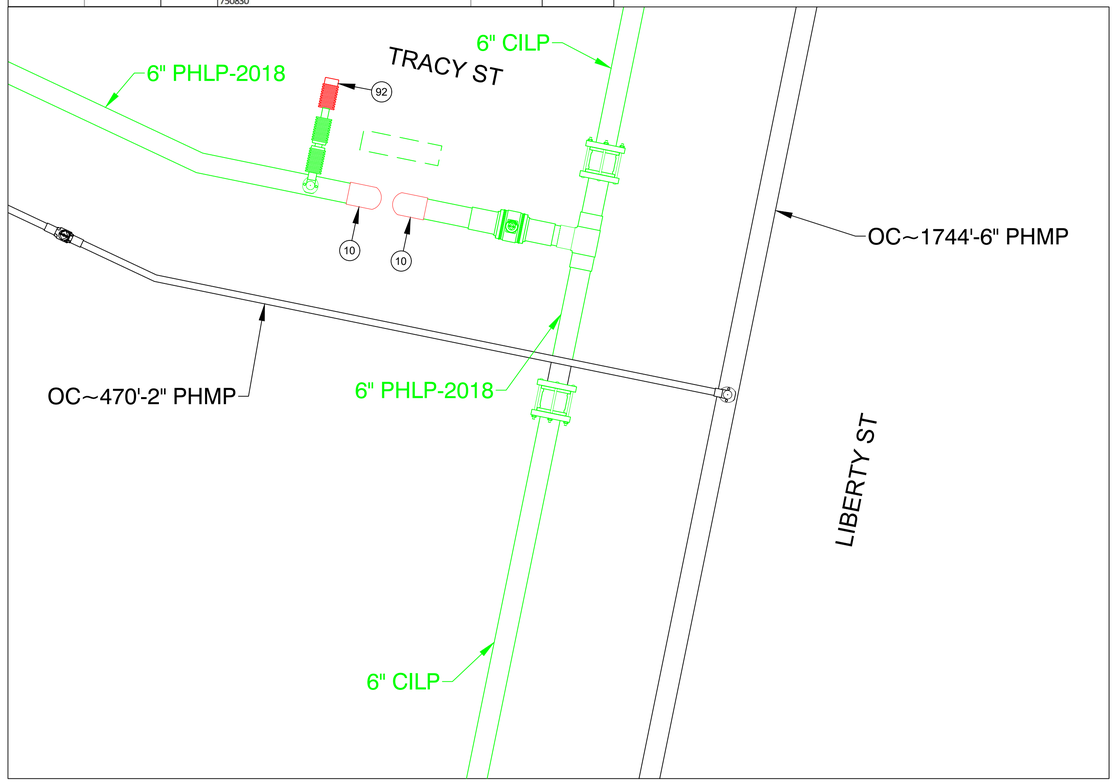
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "J" 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 |
| 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 | 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

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | 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 |
| 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

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 17 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-17 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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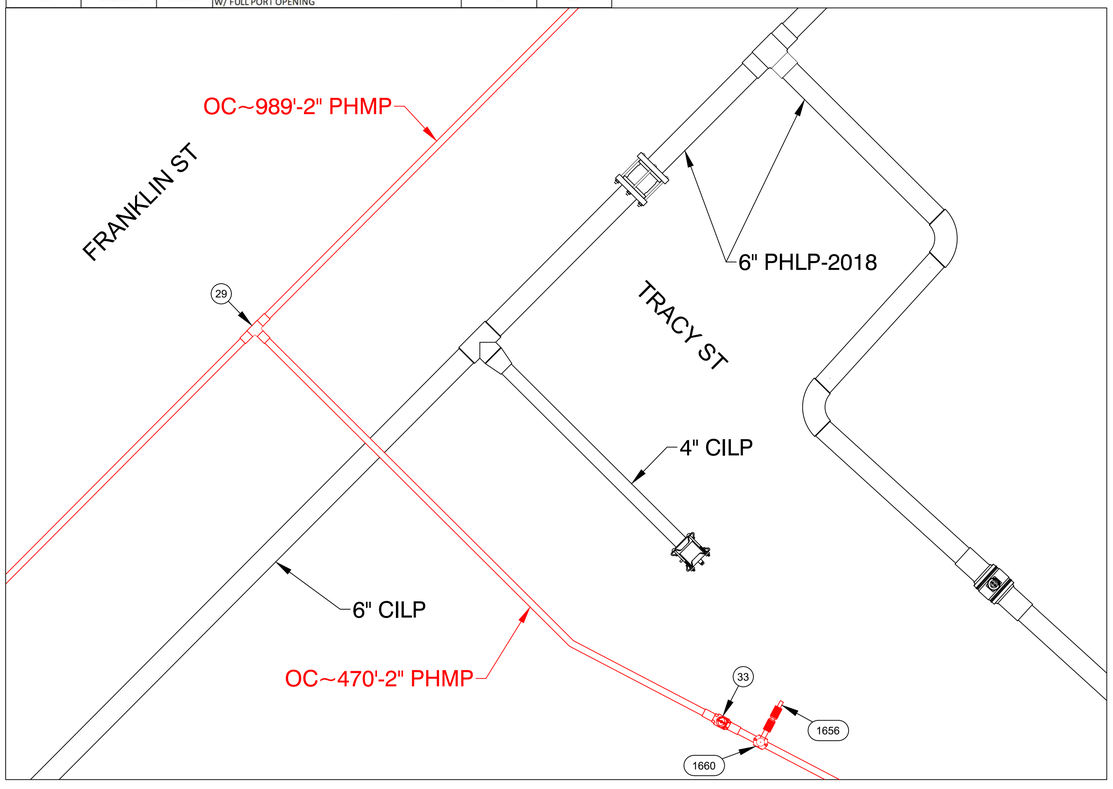
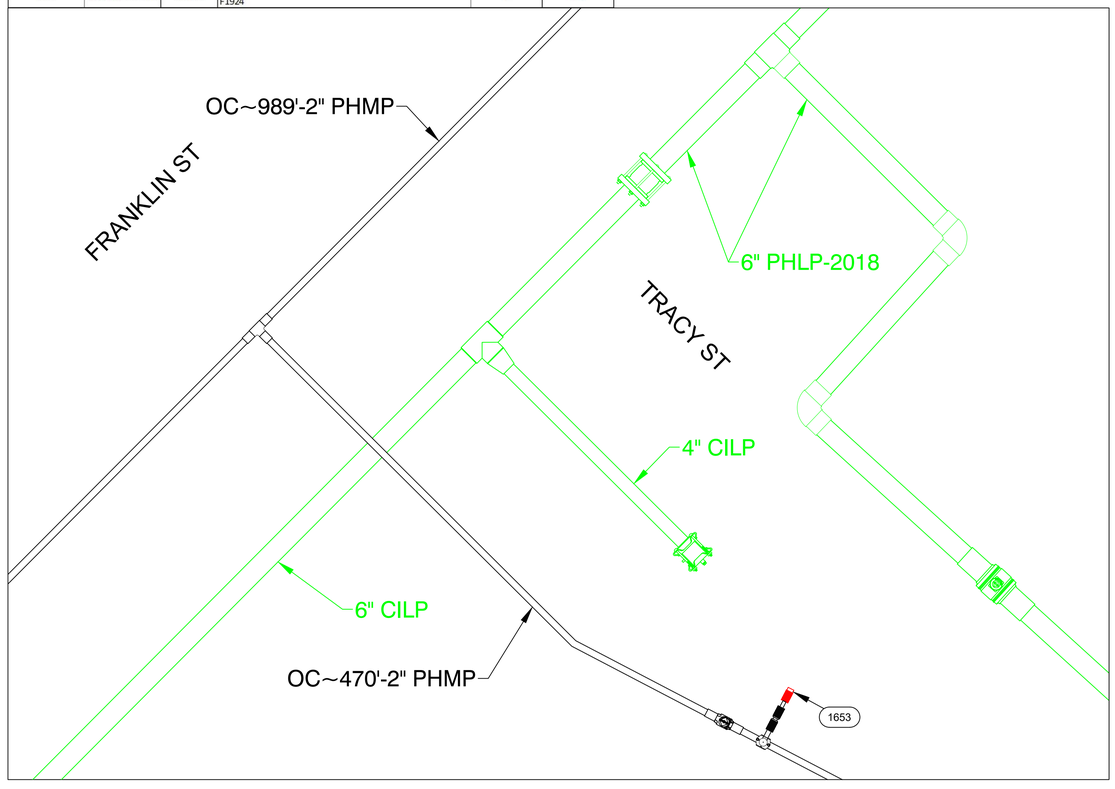
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "K" 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 |
| 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 K
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "K" 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 K
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 18 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-18 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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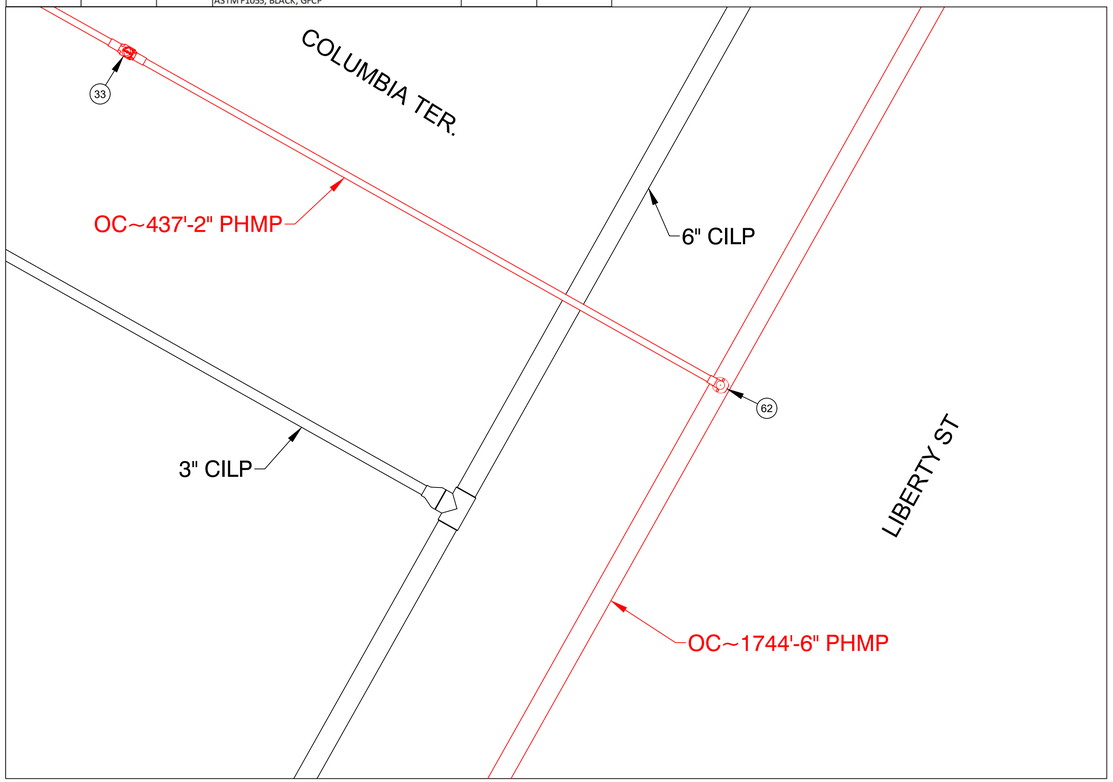
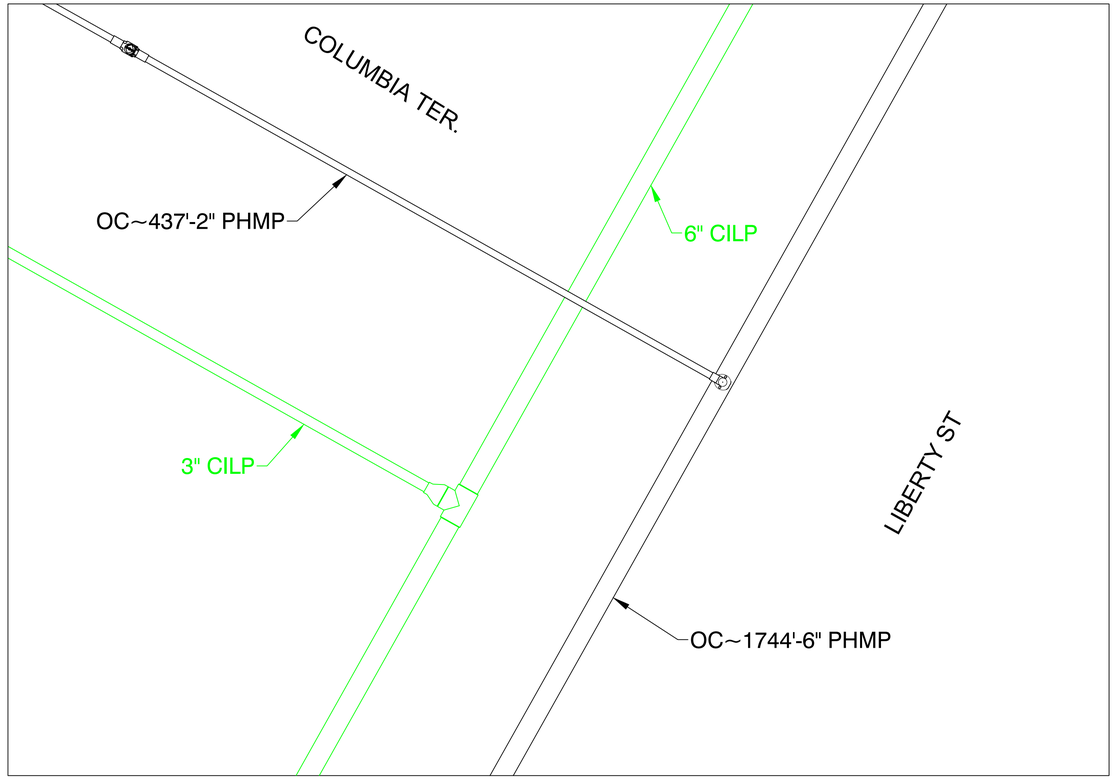
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "L" 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 |
| 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 |




PREPARATORY TIE-IN DETAIL L
NOT TO SCALE




FINAL TIE-IN DETAIL L
NOT TO SCALE

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 19 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-19 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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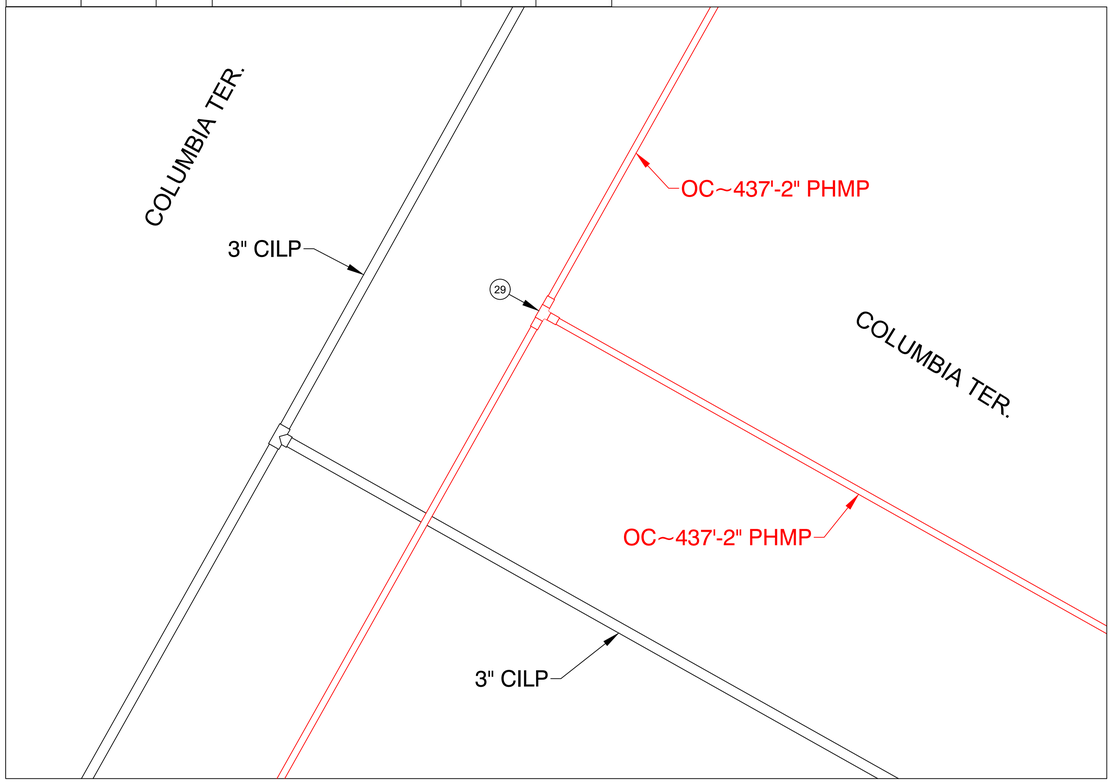
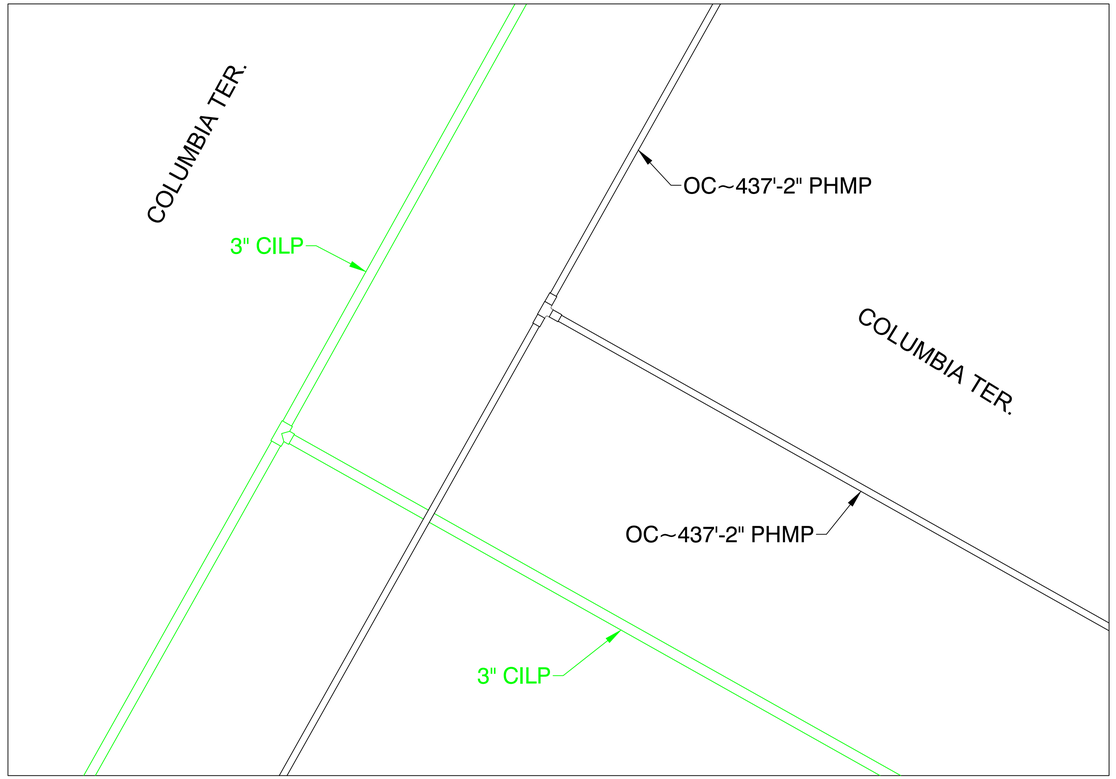
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "M" 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 |




PREPARATORY TIE-IN DETAIL M
NOT TO SCALE




FINAL TIE-IN DETAIL M
NOT TO SCALE

ISSUED FOR REVIEW

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 20 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-20 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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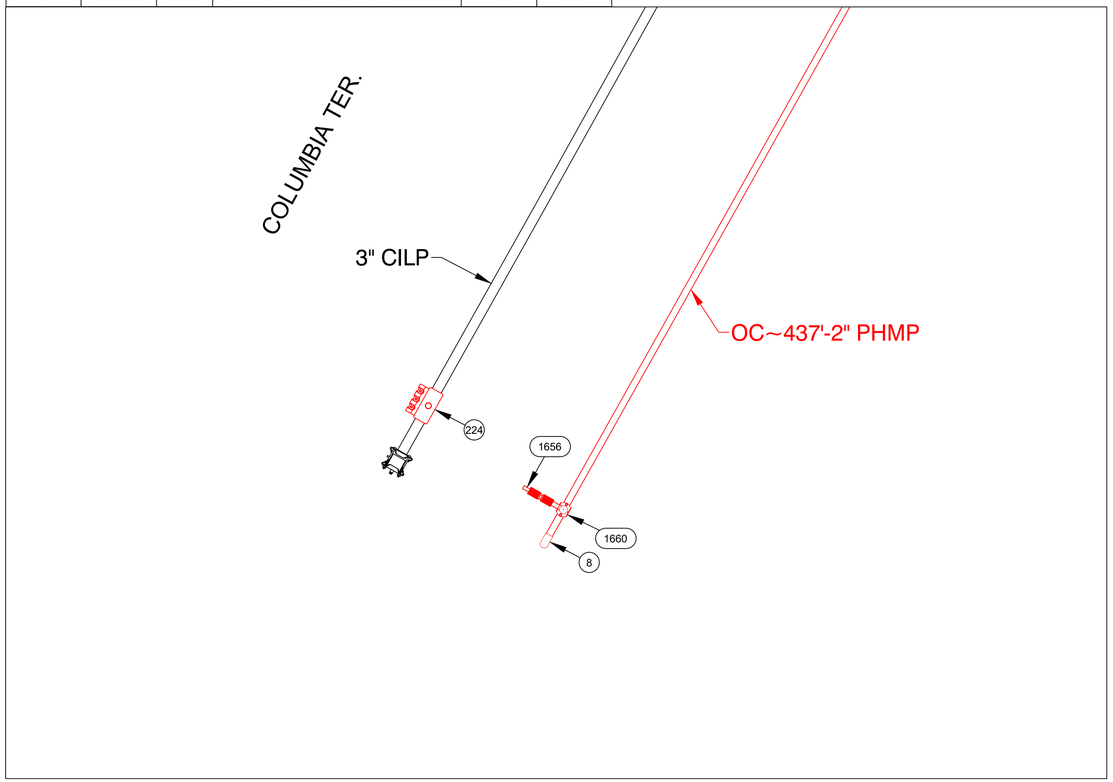
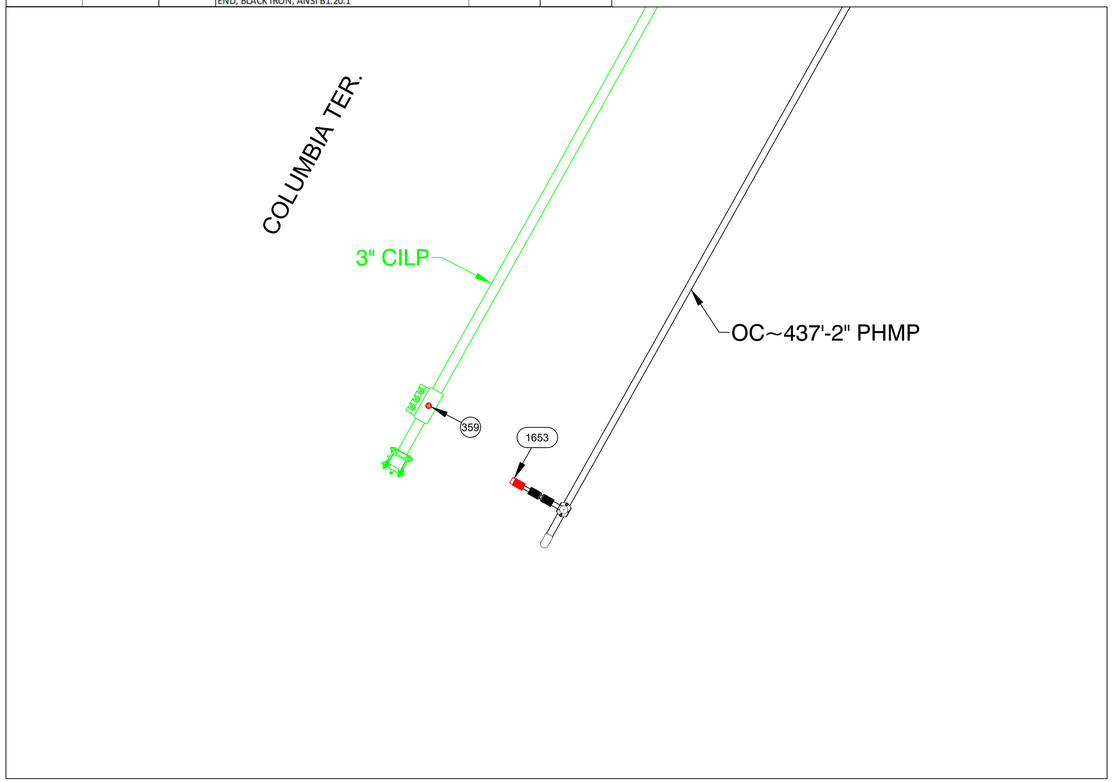
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "N" 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 |
| 224 | 63462221 | 578018 | CLAMP,PIPE, 3 IN DIA, 6 IN LG, W/ 1-1/4 IN OUTLET, FULL CIRCLE REPAIR, FOR STEEL PIPE, SMITH BLAIR STYLE 234 | 1 | EA |
| 8 | 63078024 | 542572 | CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 1 | EA |




PREPARATORY TIE-IN DETAIL N
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "N" 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 |
| 359 | 19080285 | 554877 | PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 1 | EA |




FINAL TIE-IN DETAIL N
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

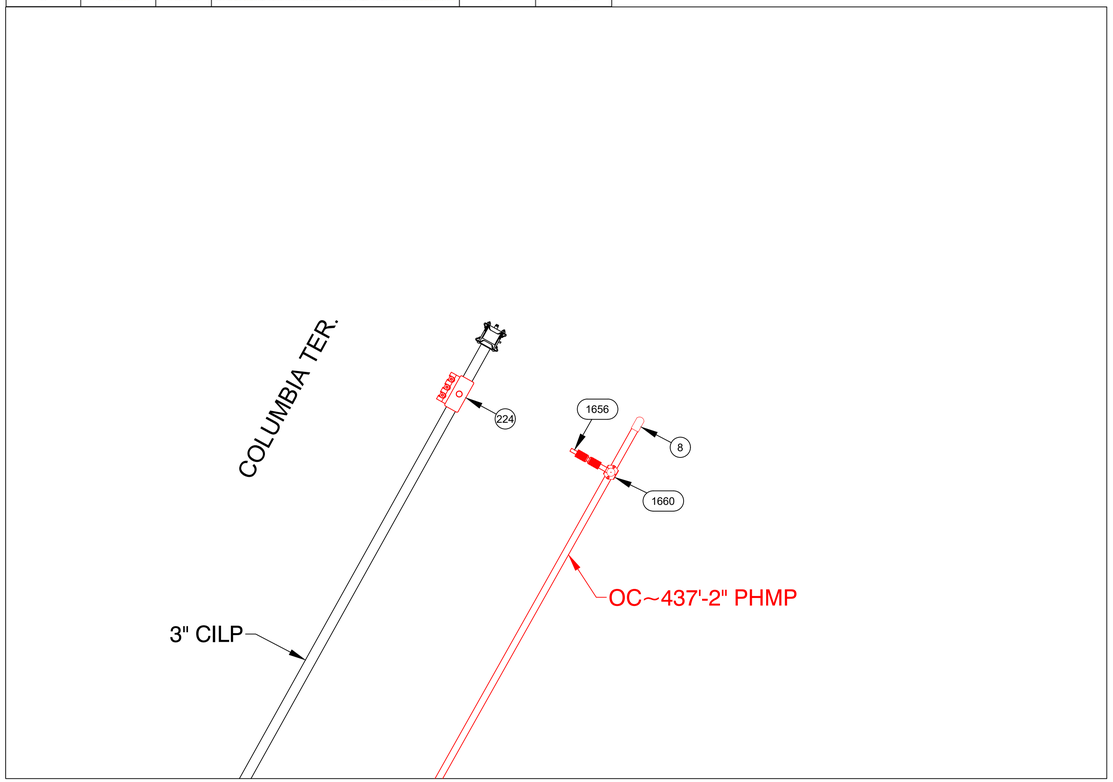
EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 21 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-21 | A |

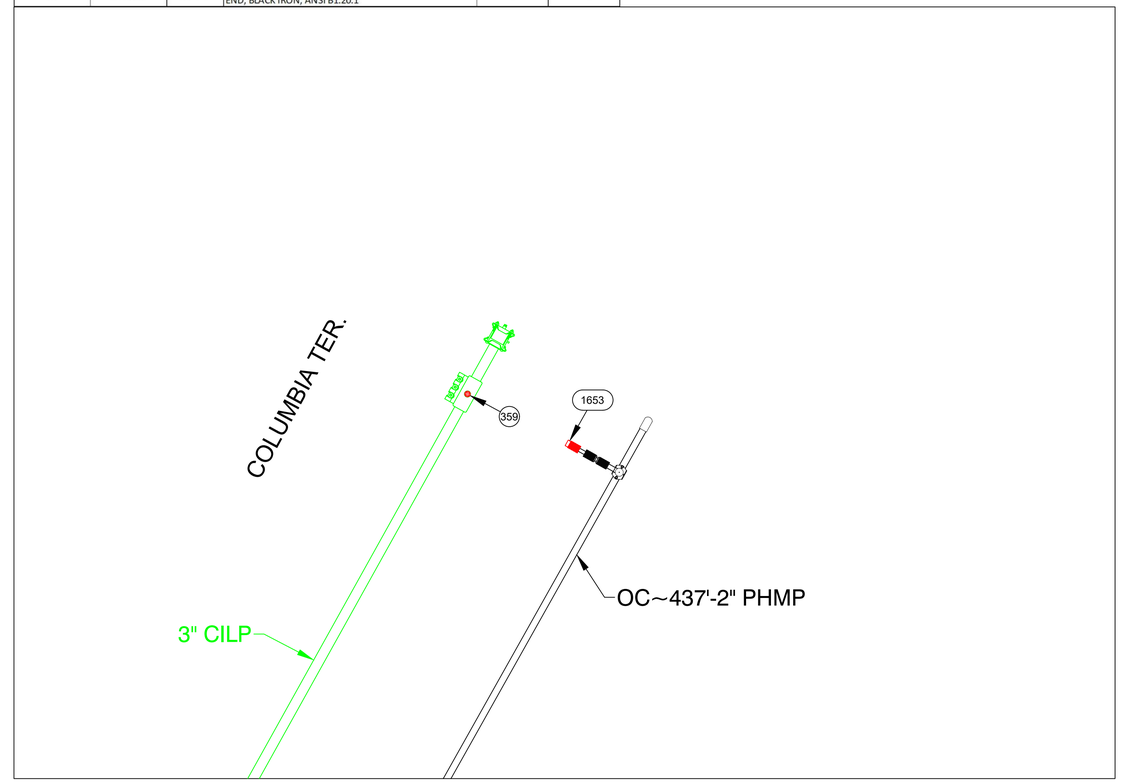
EGMA DRAWING TEMPLATE - 02-28-2023
Murray Hill Ave - Pro Drawing Rev0.dwg
C:\users\tljohnson\projectwise\ls\d0399945\
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "O" 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 |
| 224 | 63462221 | 578018 | CLAMP,PIPE, 3 IN DIA, 6 IN LG, W/ 1-1/4 IN OUTLET, FULL CIRCLE REPAIR, FOR STEEL PIPE, SMITH BLAIR STYLE 234 | 1 | EA |
| 8 | 63078024 | 542572 | CAP,PIPE, 2 IN IPS SDR 11, BUTT END, POLYETHYLENE, P100 | 1 | EA |




PREPARATORY TIE-IN DETAIL O
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "O" 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 |
| 359 | 19080285 | 554877 | PLUG,PIPE, SQUARE HEAD, SOLID, 1-1/4 IN, THREADED END, BLACK IRON, ANSI B1.20.1 | 1 | EA |




FINAL TIE-IN DETAIL O
NOT TO SCALE

ISSUED FOR REVIEW

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215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 22 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-22 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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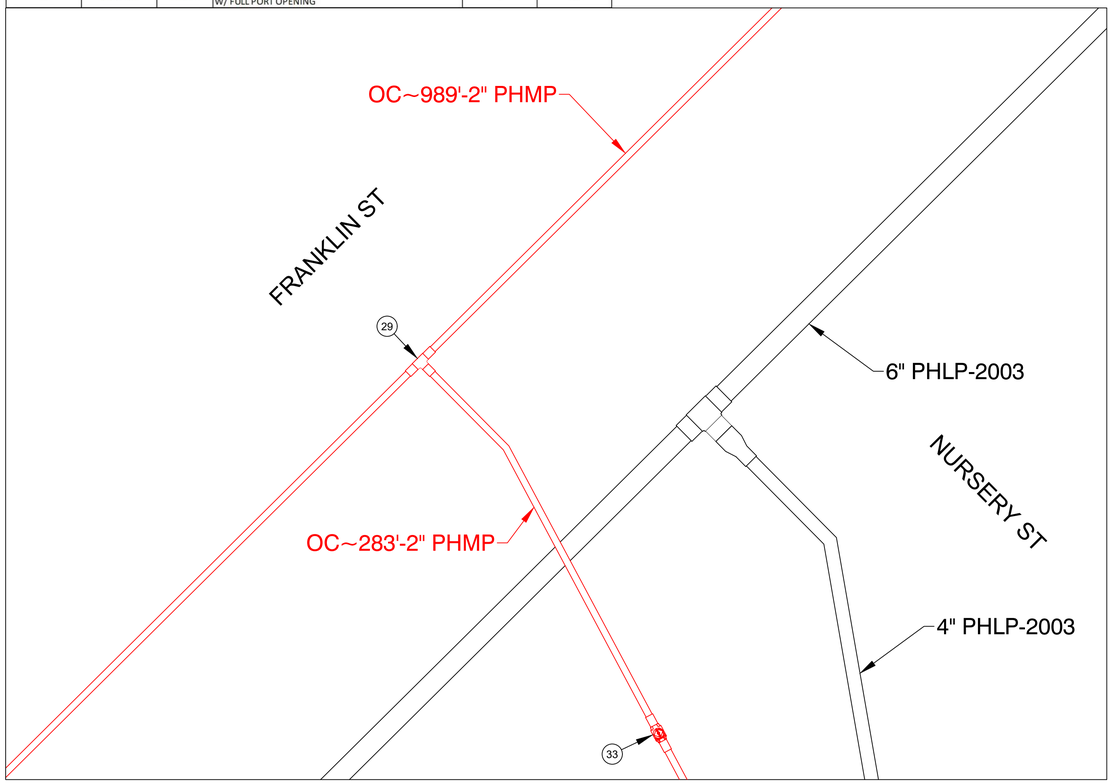
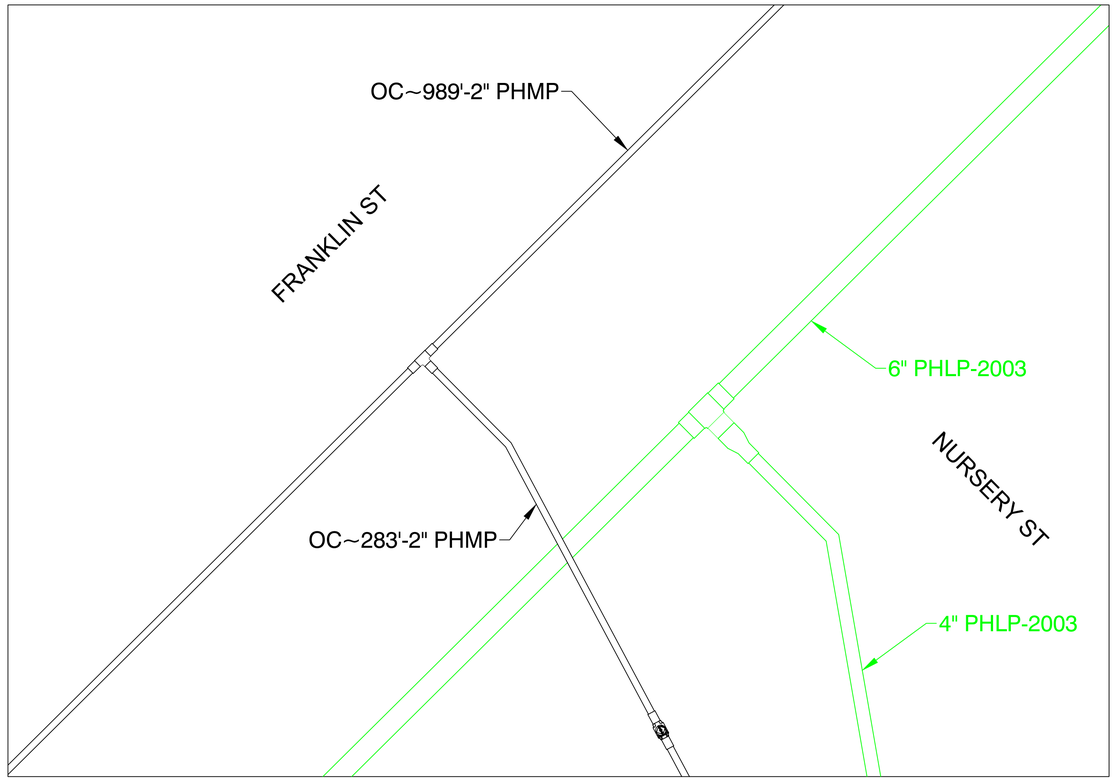
Oct 10, 2024 - 10:58am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "P" 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 P
NOT TO SCALE




FINAL TIE-IN DETAIL P
NOT TO SCALE

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 23 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-23 | A |

EGMA DRAWING TEMPLATE - 02-28-2023
Murray Hill Ave - Pro Drawing Rev0.dwg
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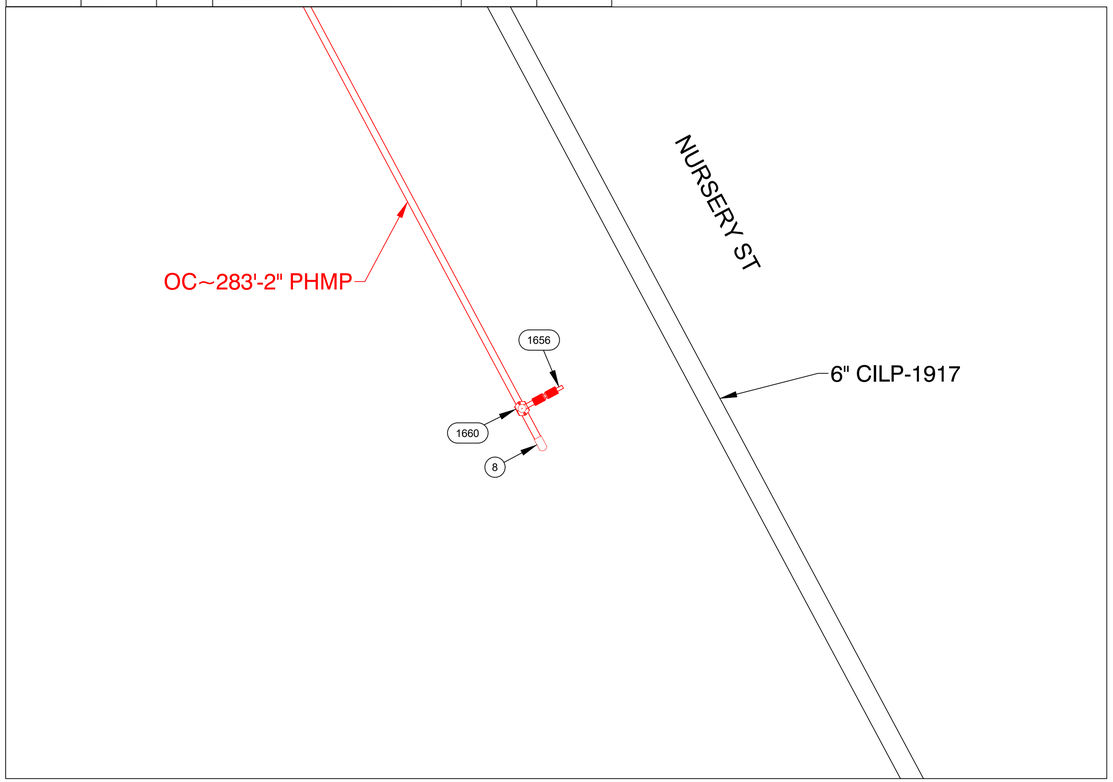
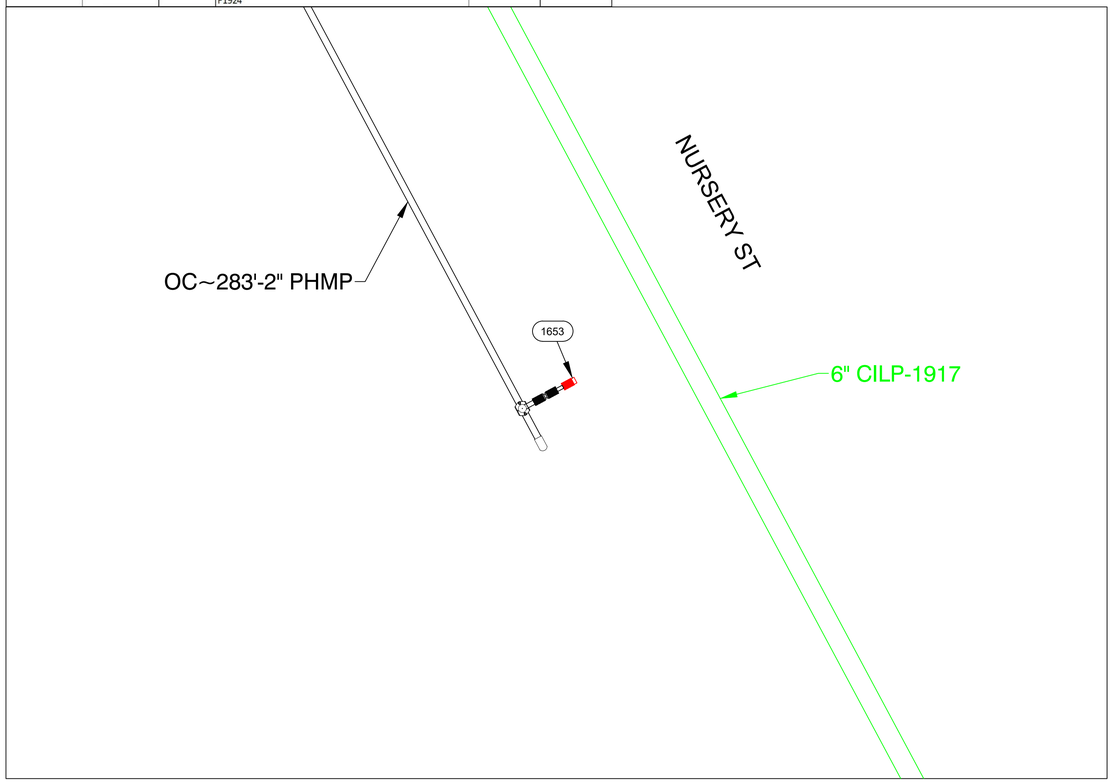
Oct 10, 2024 - 10:59am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "Q" 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 Q
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "Q" 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 Q
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 24 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-24 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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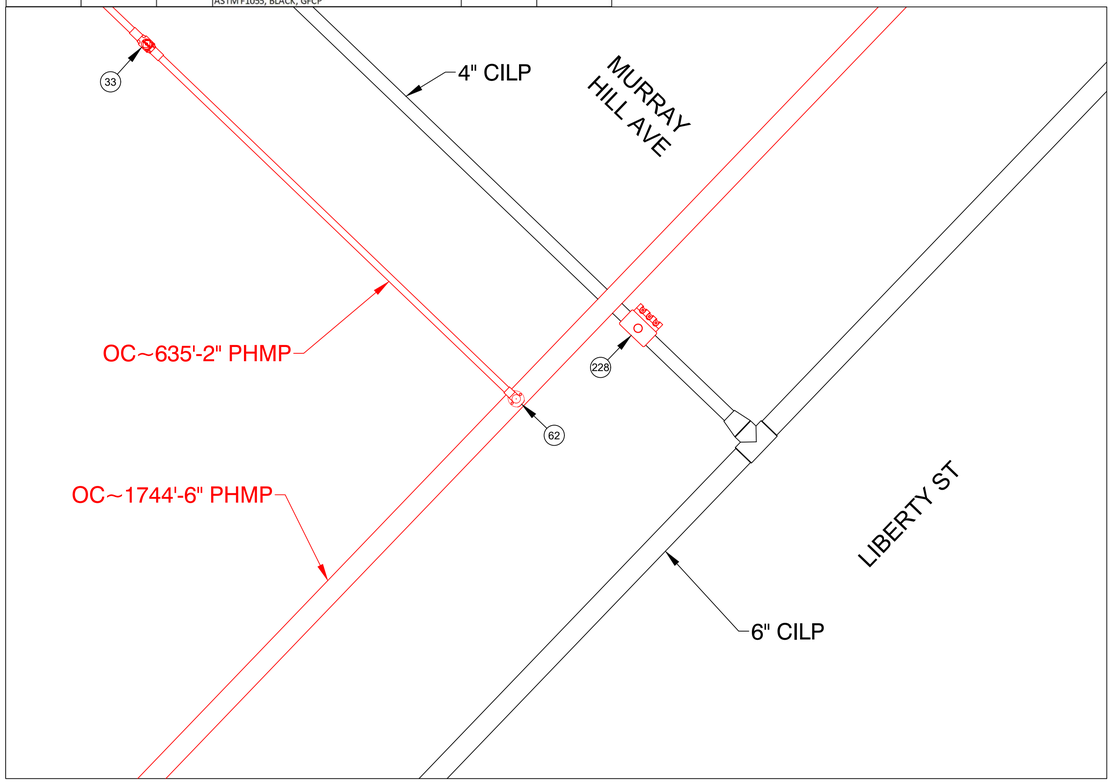
Oct 10, 2024 - 10:59am

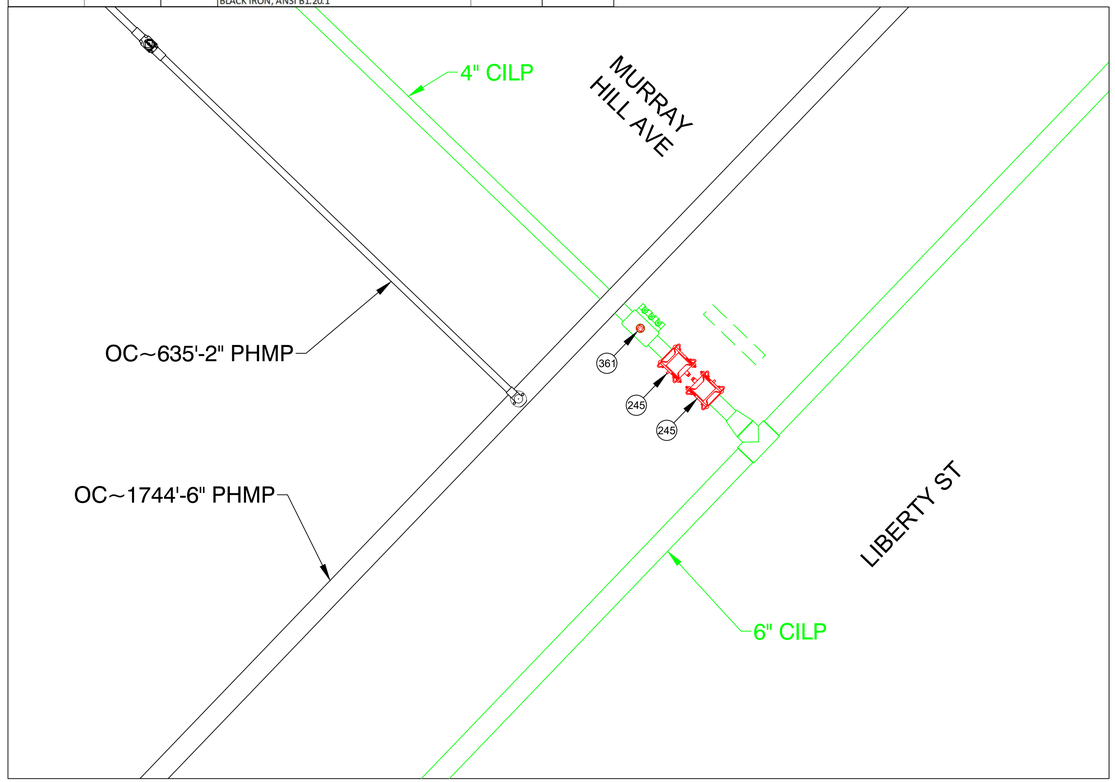
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "R" 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 |
| 33 | 14281726 | 562087 | VALVE,BALL, 2 IN IPS, POLYETHYLENE, SDR 11, BUTT WELD, W/ FULL PORT OPENING | 1 | 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 |




PREPARATORY TIE-IN DETAIL R
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "R" FINAL | |
|---|---|---|---|---|---|
| **REQUIRED BILL OF MATERIALS** | | | | | |
| **Item Number** | **MRC Stock Number** | **Maximo Part Number** | **Description** | **Quantity** | **Units** |
| 245 | 63481719 | 578128 | FITTING,COUPLING, VENTED, SEAL & RESTRAINT, 4 IN, W/ END CAP , FOR CAST IRON PIPE | 2 | 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 R
NOT TO SCALE

ISSUED FOR REVIEW

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215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 25 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-25 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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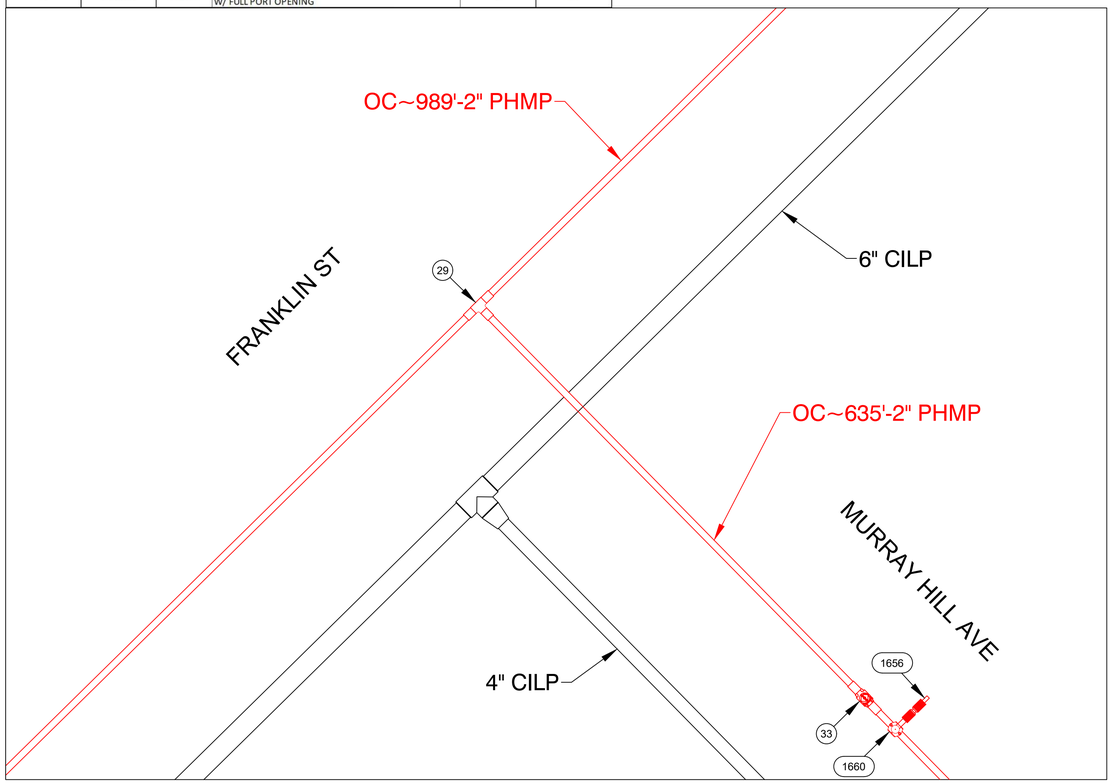
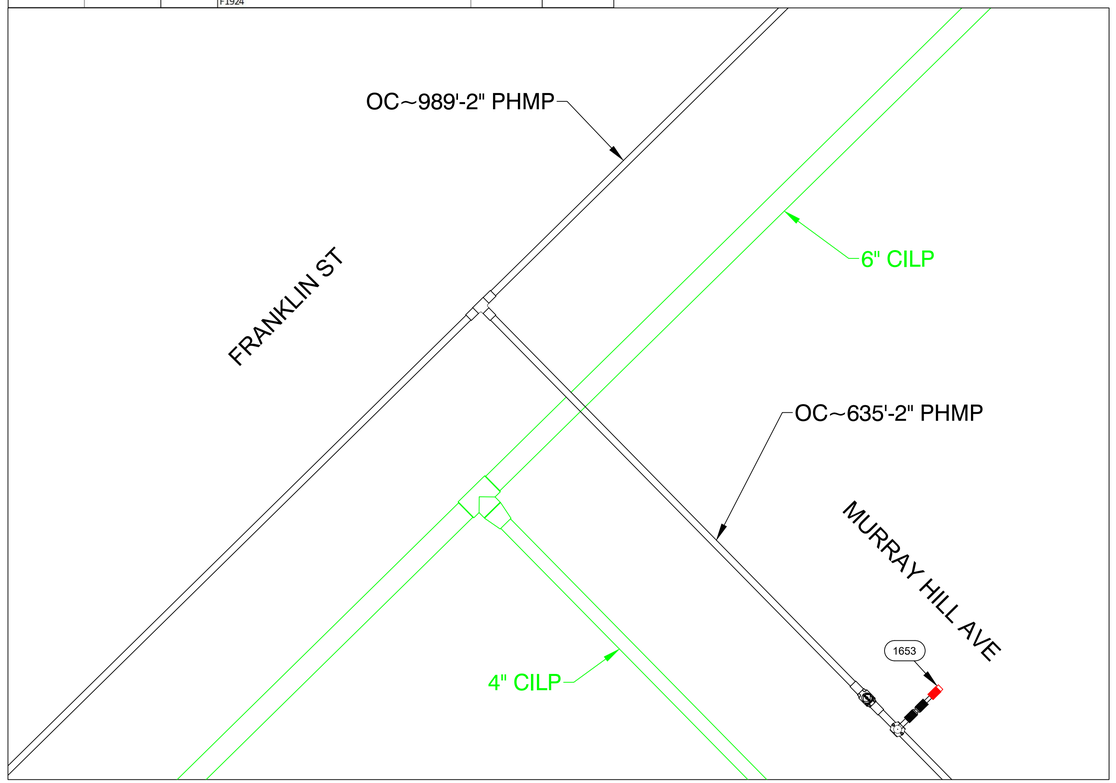
Oct 10, 2024 - 10:59am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | | DETAIL "S" 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 |
| 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 S
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | | DETAIL "S" 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 S
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 26 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-26 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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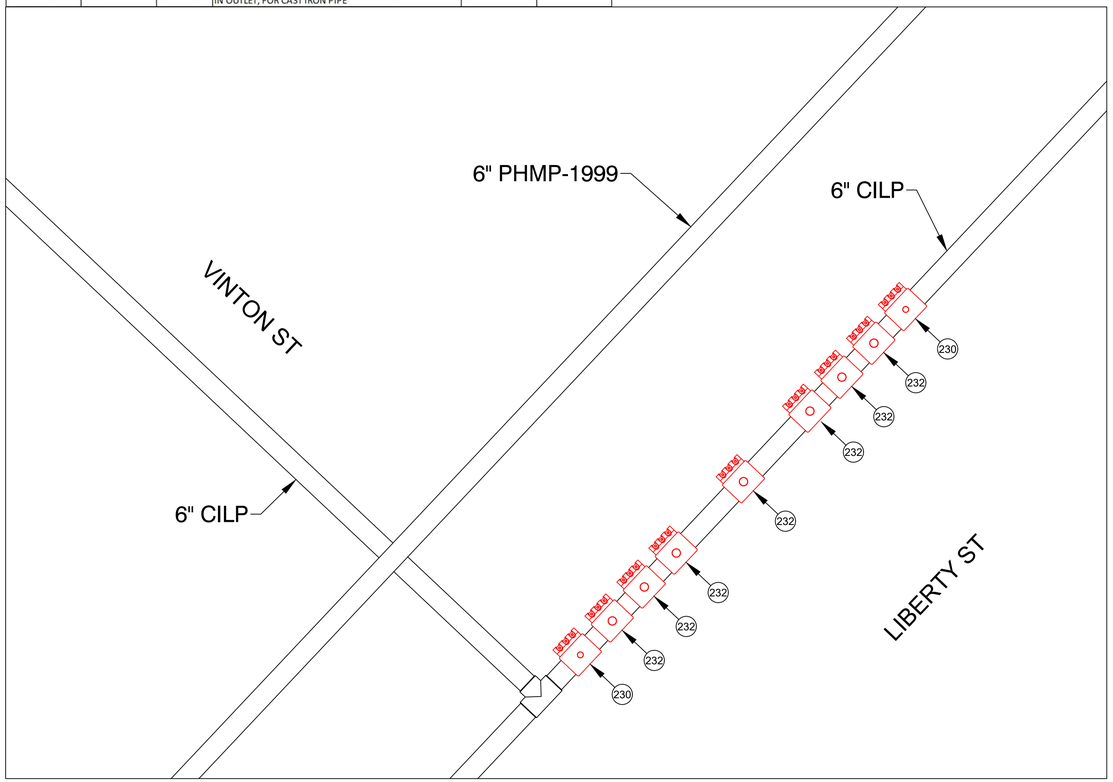
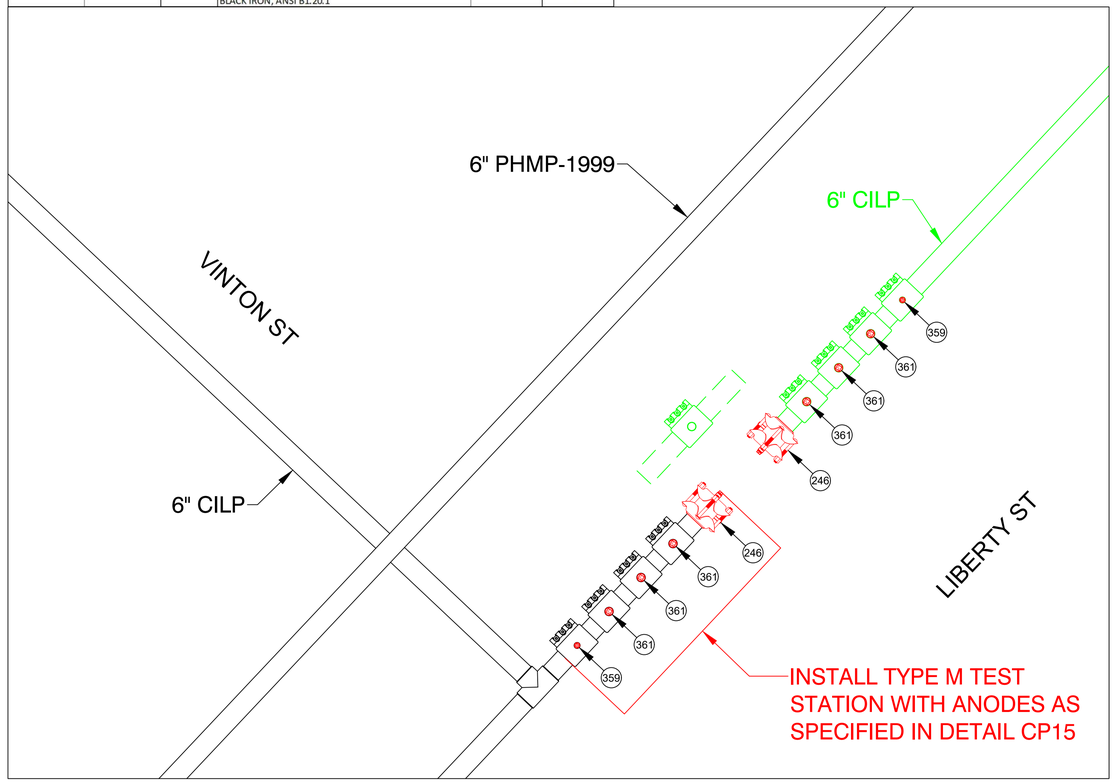
Oct 10, 2024 - 10:59am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "T" 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 T
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "T" 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 | 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 T
NOT TO SCALE

ISSUED FOR REVIEW

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FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE: 1"=40' ON 22"X34" SHEET 27 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-27 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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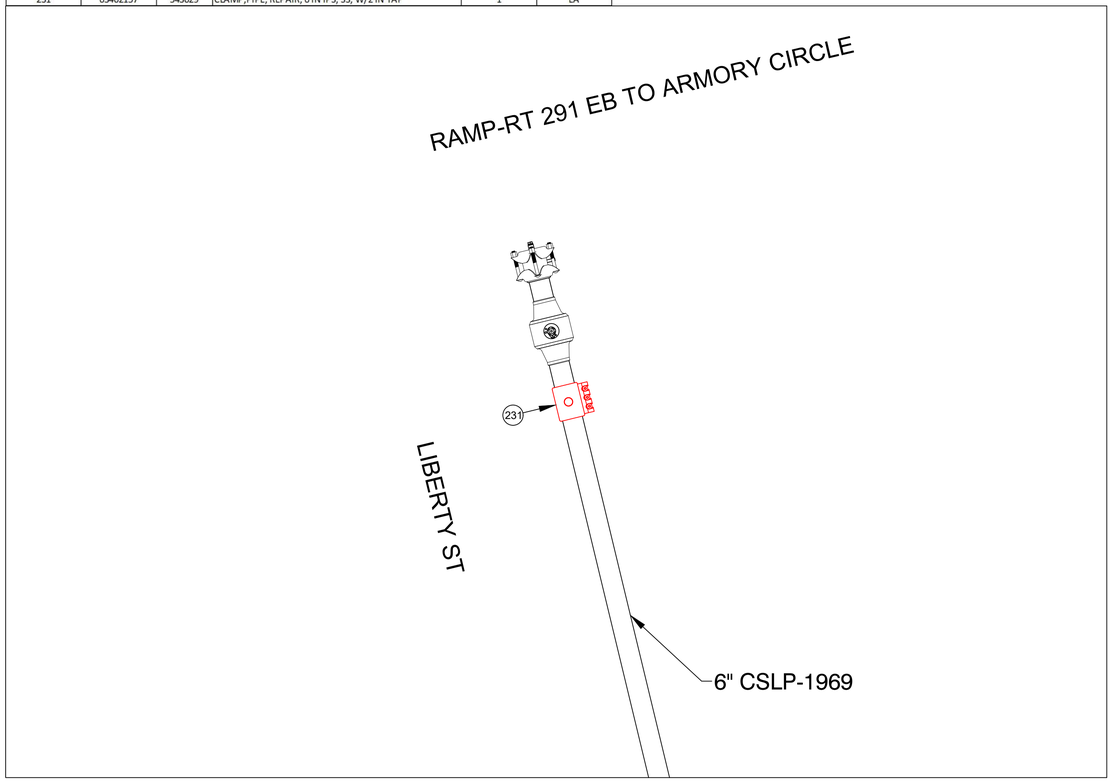
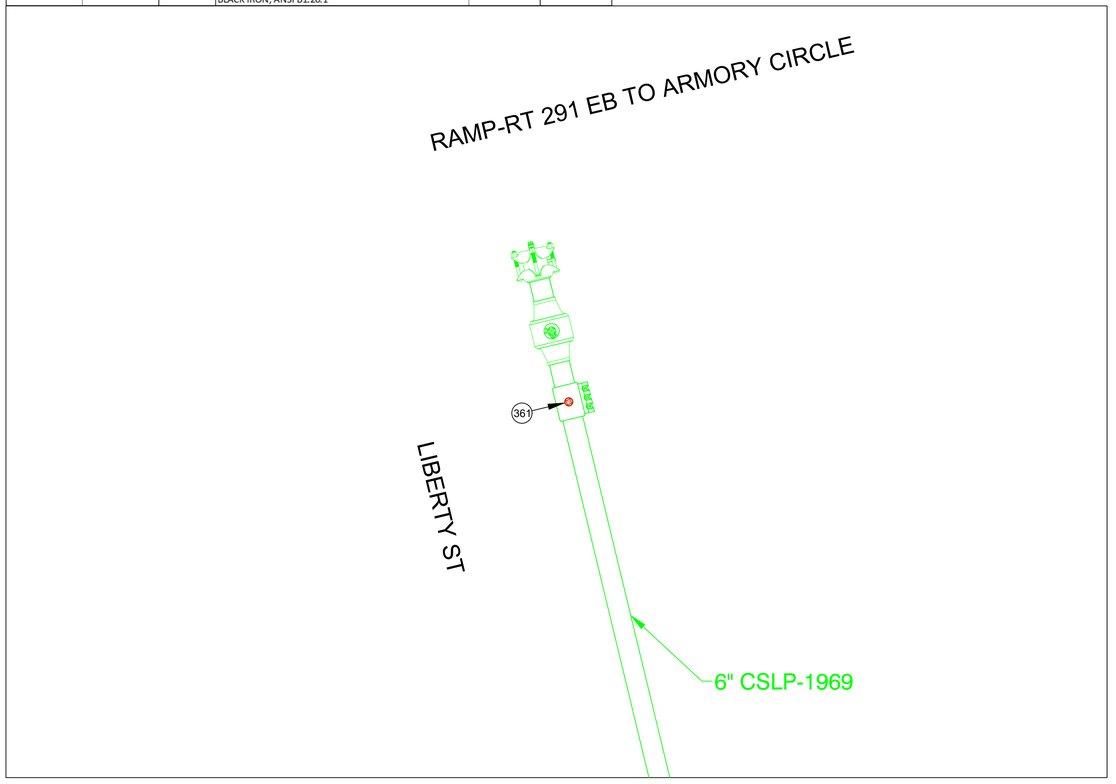
Oct 10, 2024 - 10:59am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "U" PREPARATORY | |
|---|---|---|---|---|---|
| REQUIRED BILL OF MATERIALS | | | | | |
| Item Number | MRC Stock Number | Maximo Part Number | Description | Quantity | Units |
| 231 | 63462157 | 543029 | CLAMP,PIPE, REPAIR, 6 IN IPS, SS, W/2 IN TAP | 1 | EA |




PREPARATORY TIE-IN DETAIL U
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "U" 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 U
NOT TO SCALE

ISSUED FOR REVIEW

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215 GREENFIELD PKY | Suite 102 | LIVERPOOL, NY 13088

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| No. | Description | Date | Dw/Ck |
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| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 28 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-28 | A |

Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
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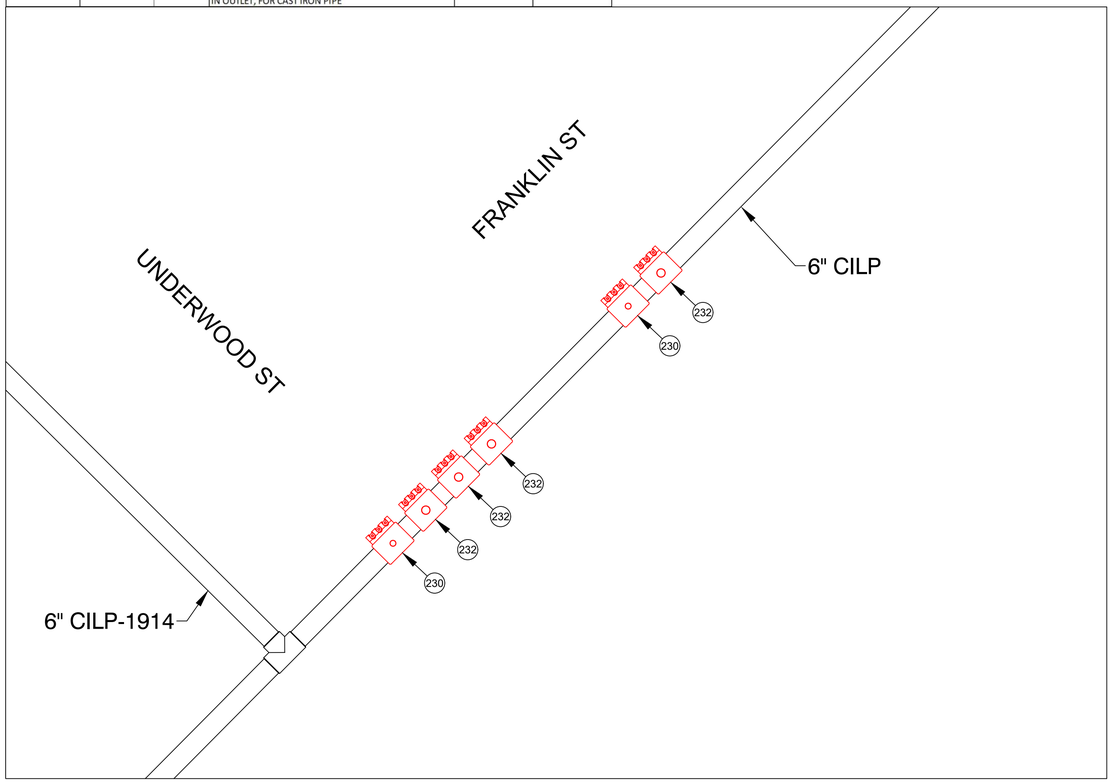
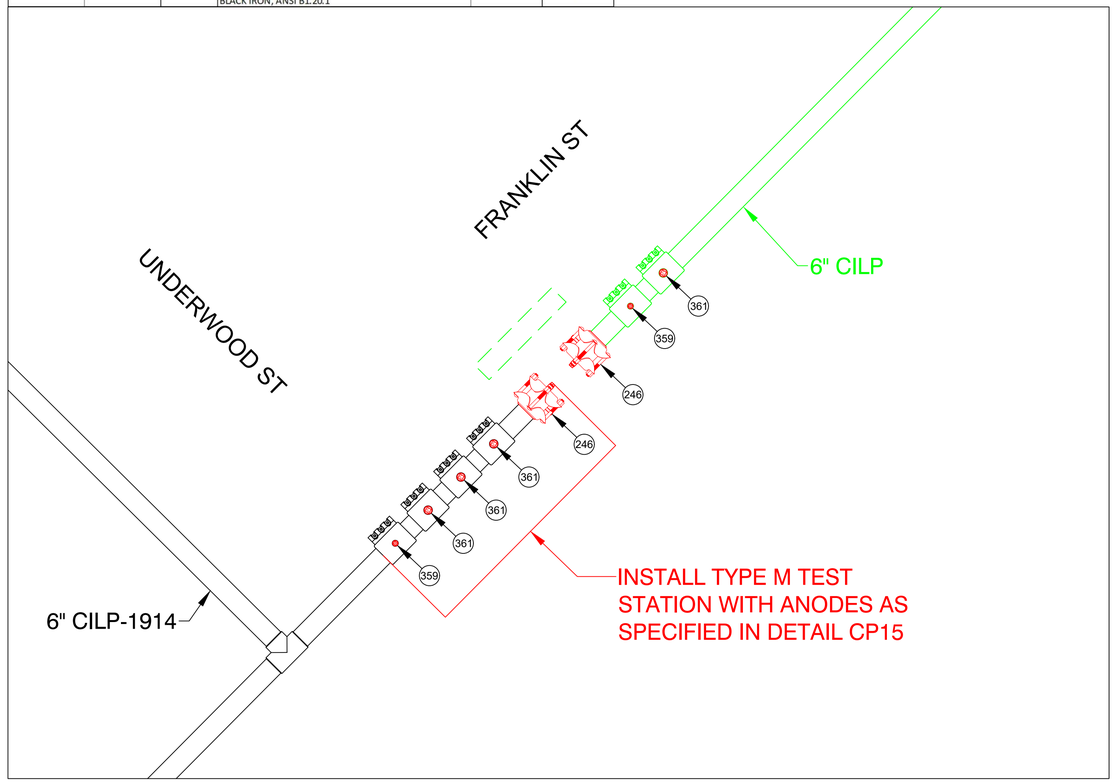
Oct 10, 2024 - 10:59am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "V" 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 V
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | | DETAIL "V" 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 | 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 V
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

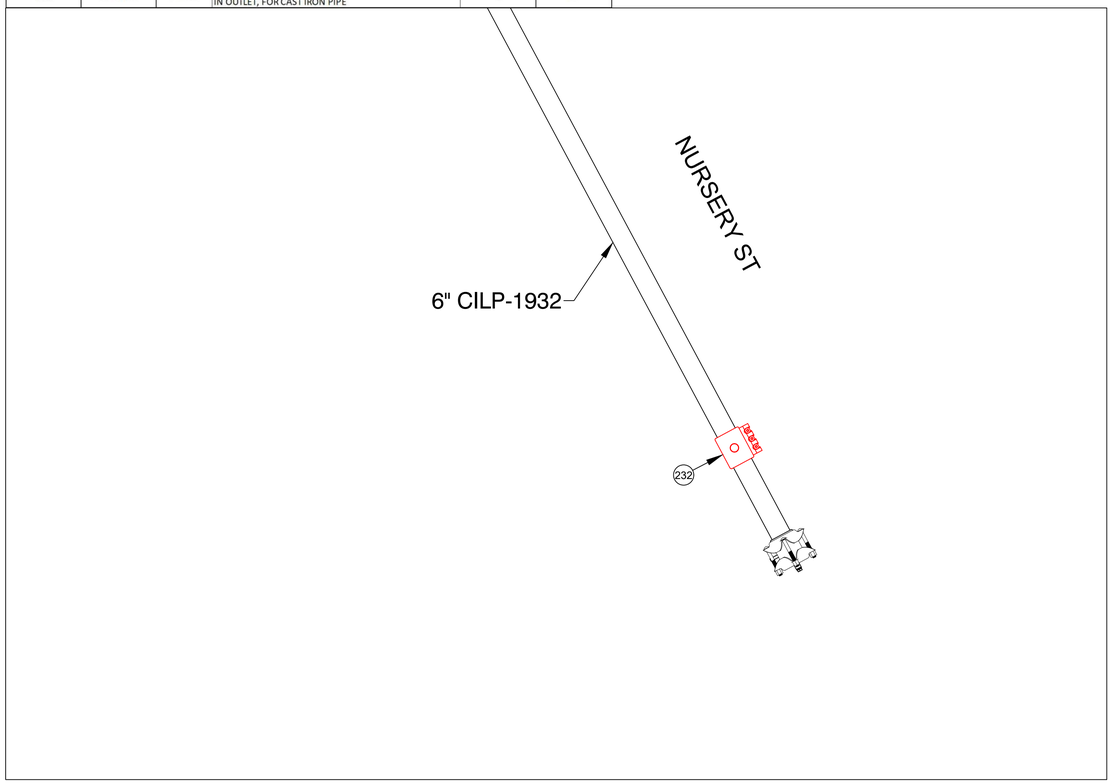
EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 29 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-29 | A |

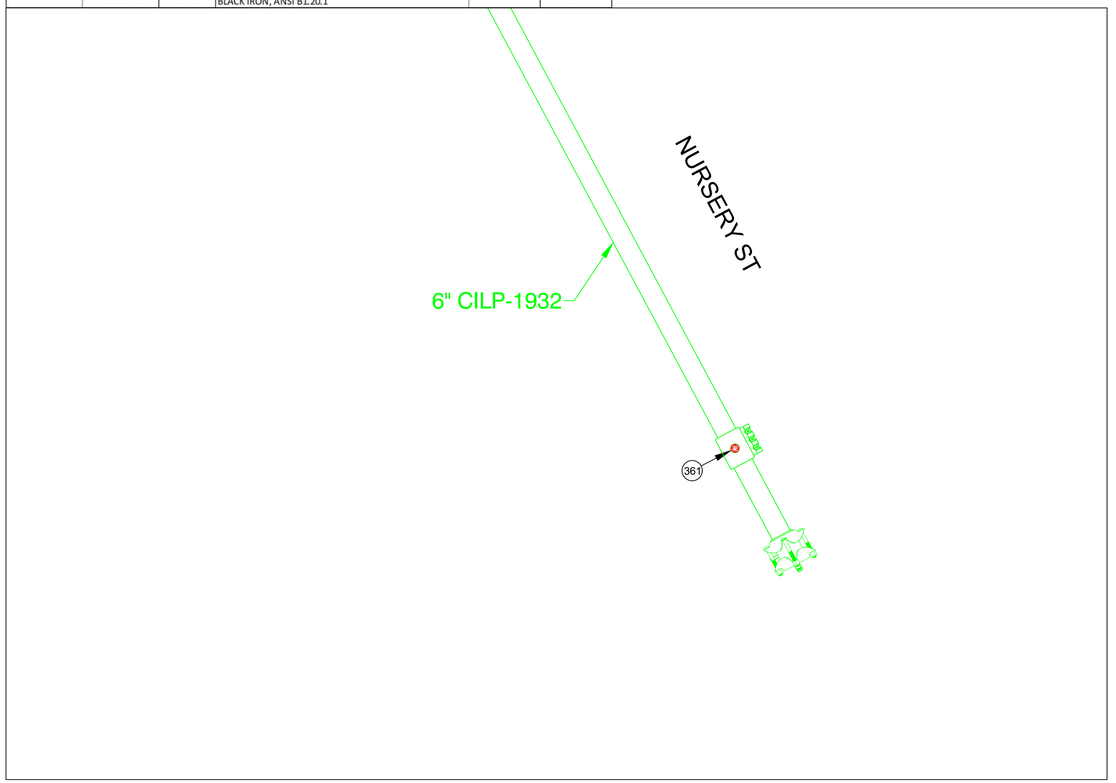
Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\users\tljohnson\projectwise\fsl\d0399945\
Oct 10, 2024 - 10:59am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

| MURRAY HILL AVE, SPRINGFIELD, MA | | | DETAIL "W" PREPARATORY | | |
|---|---|---|---|---|---|
| REQUIRED BILL OF MATERIALS | | | | | |
| Item Number | MRC Stock Number | Maximo Part Number | Description | Quantity | Units |
| 232 | 63462159 | 578022 | FITTING,CLAMP, SERVI-SEAL REPAIR, 6 IN DIA, 9 IN LG, W/ 2 IN OUTLET, FOR CAST IRON PIPE | 1 | EA |




PREPARATORY TIE-IN DETAIL W
NOT TO SCALE

| MURRAY HILL AVE, SPRINGFIELD, MA | | | DETAIL "W" 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 W
NOT TO SCALE

ISSUED FOR REVIEW

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

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

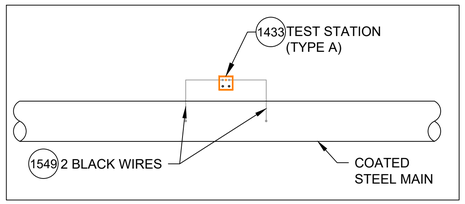
Revision/Status

EVERSOURCE ENERGY

MURRAY HILL AVE, SPRINGFIELD, MA
PROJECT # 25EG054 / WORK ORDER # XXXX
PREPARATORY AND FINAL TIE-IN DETAILS
SCALE:1"=40' ON 22"X34" SHEET 30 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| TLJ 10/04/2024 | AM 10/11/2024 | MA-SPR-PIP-25-022-30 | A |

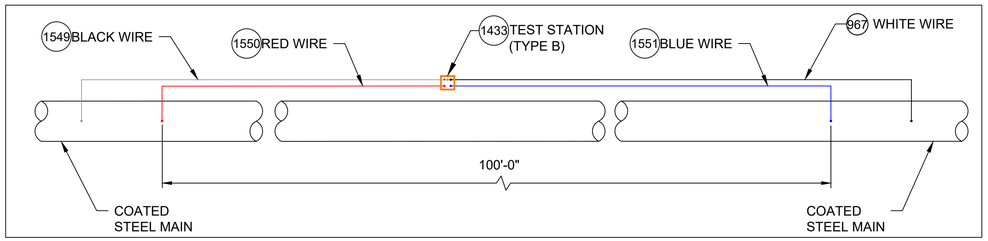
Murray Hill Ave - Pro Drawing Rev0.dwg
EGMA DRAWING TEMPLATE - 02-28-2023
C:\users\tljohnson\projectwise\fsl\d0399945\
Oct 10, 2024 - 10:59am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)




TYPE A TEST STATION

DETAIL CP1

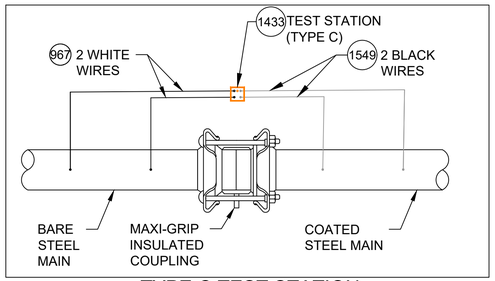
SCALE: 1/2" = 1'-0"




TYPE B TEST STATION

DETAIL CP2

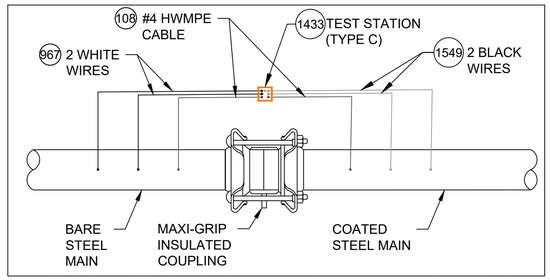
SCALE: 1/2" = 1'-0"




TYPE C TEST STATION

DETAIL CP3

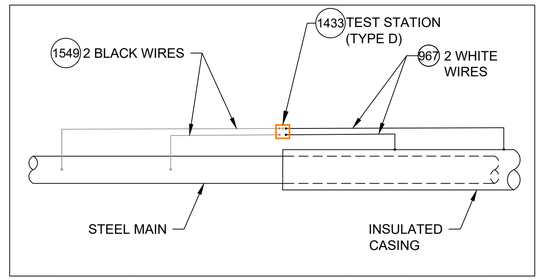
SCALE: 1/2" = 1'-0"




TYPE C TEST STATION - WITH #4 HWMPE CABLE

DETAIL CP4

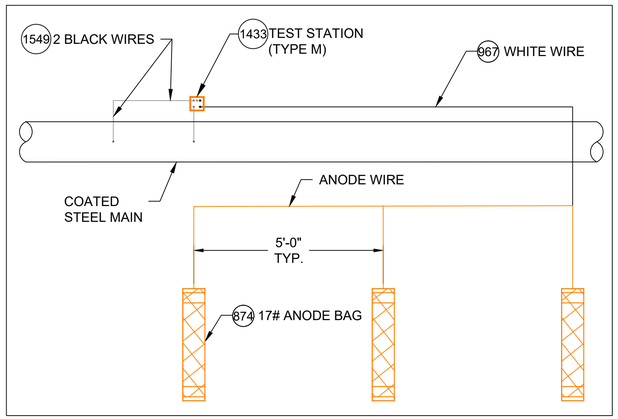
SCALE: 1/2" = 1'-0"




TYPE D TEST STATION (INSULATED CASING)

DETAIL CP5

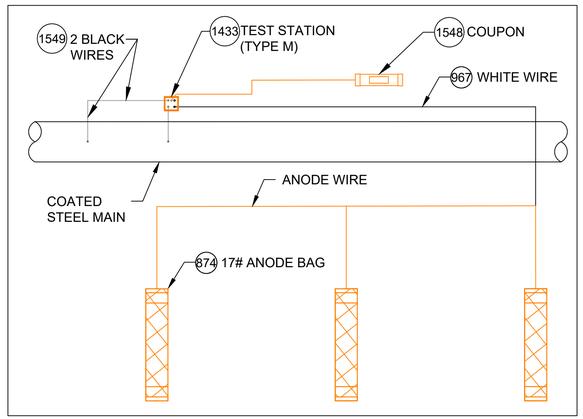
SCALE: 1/2" = 1'-0"




TYPE M TEST STATION (WITH ANODES)

DETAIL CP6

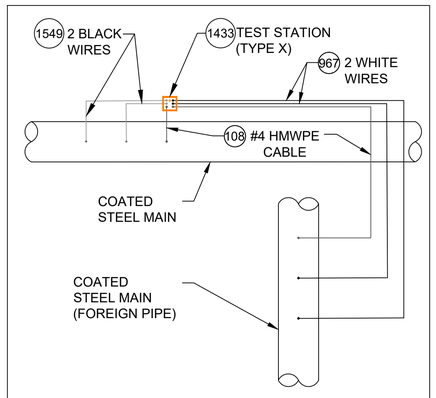
SCALE: 1/2" = 1'-0"




TYPE M TEST STATION (WITH COUPON AND ANODES)

DETAIL CP7

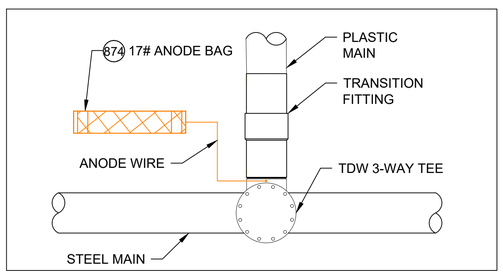
SCALE: 1/2" = 1'-0"




TYPE X TEST STATION

DETAIL CP8

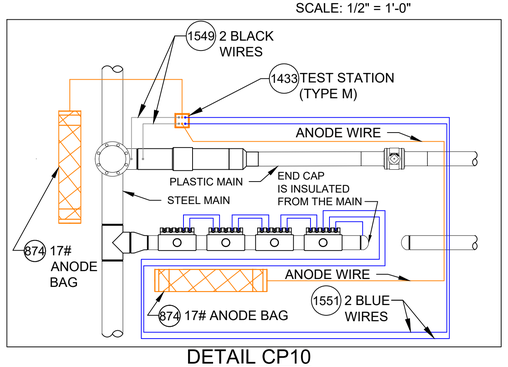
SCALE: 1/2" = 1'-0"




TDW 3-WAY TEE WITH ANODE

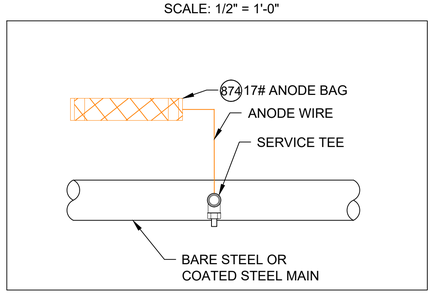
DETAIL CP9

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, 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, 0F 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:

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.

| No. | Description | Date | Dw/Ck/Ap |
|---|---|---|---|
| 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 |

Revision/Status

EVERSOURCE ENERGY

STANDARD CS-500 CORROSION DETAILS

STREET ADDRESS, TOWN/CITY

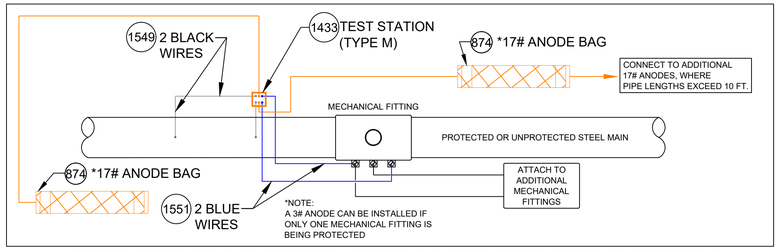
DETAILS, NOTES AND BILL OF MATERIALS

SCALE: 1/2" = 1'-0" SHEET 1 OF 3

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| Drawn by / Date | Checked by / Date | Sheet Number | Rev. No. |
|---|---|---|---|
| WBH 10/05/20 | KJK 10/19/20 | MA-COR-STD-001-01 | 6 |
| Approved by / Date: MJL 10/19/20 | Murray Hill Ave - Pro Drawing Rev0.dwg | | |

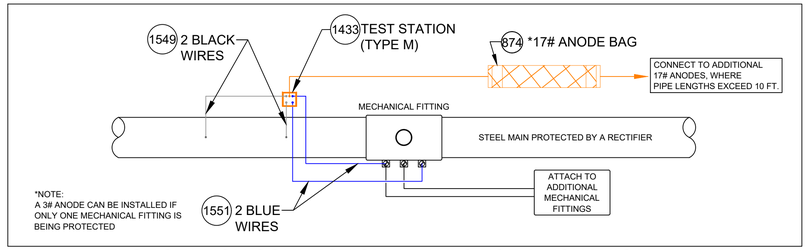
C:\users\tljohnson\projectwise\fsfs\d0399945\Murray Hill Ave - Pro Drawing Rev0.dwg
Oct 10, 2024 - 10:59am
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)




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

DETAIL CP12

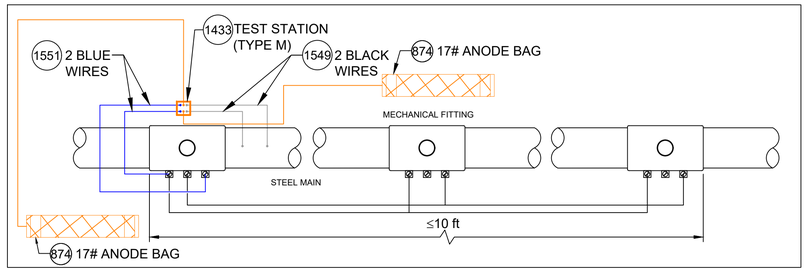
SCALE: 1/2" = 1'-0"




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

DETAIL CP13

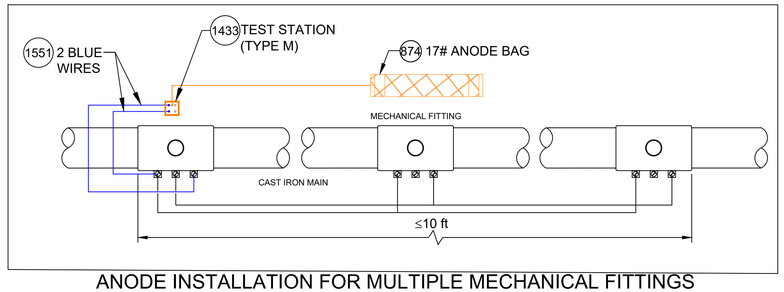
SCALE: 1/2" = 1'-0"




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

DETAIL CP14

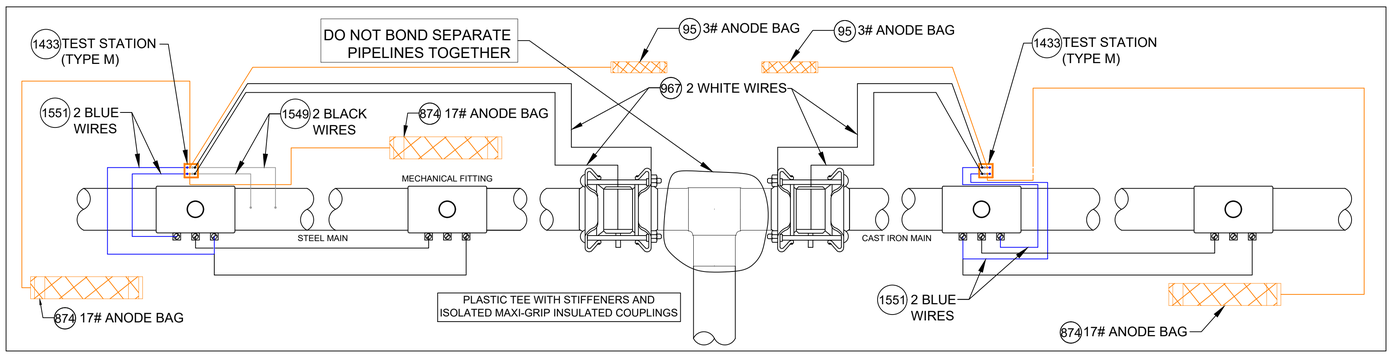
SCALE: 1/2" = 1'-0"




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

DETAIL CP15

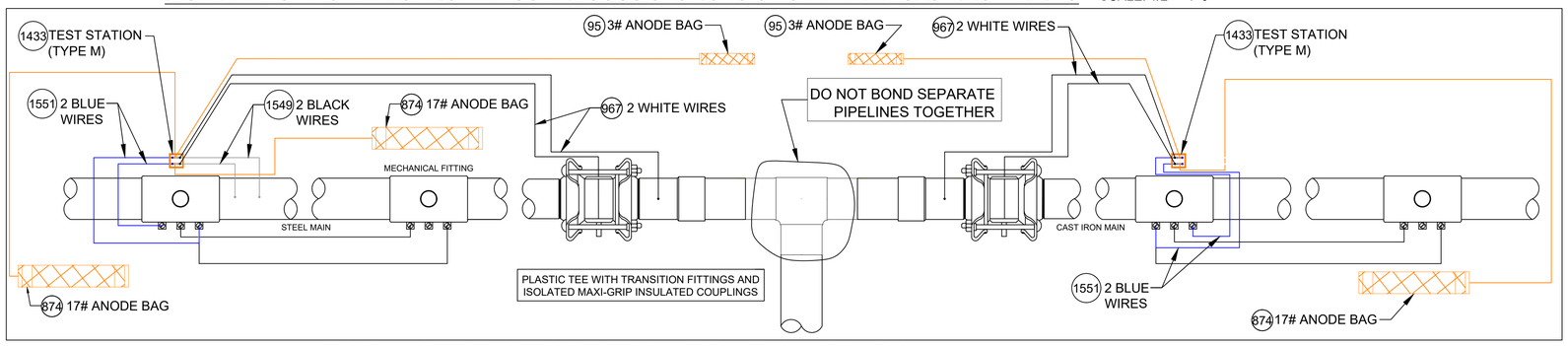
SCALE: 1/2" = 1'-0"




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, 0F 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:

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: 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.

| No. | Description | Date | Dw/Ck/Ap |
|---|---|---|---|
| 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 |

Revision/Status

EVERSOURCE ENERGY

STANDARD CS-500 CORROSION DETAILS

STREET ADDRESS, TOWN/CITY

DETAILS, NOTES AND BILL OF MATERIALS

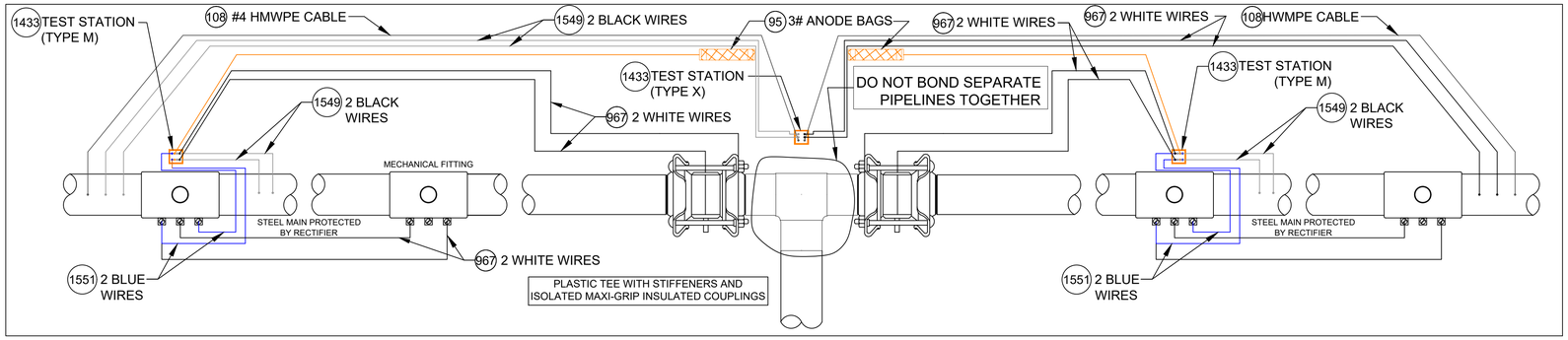
SCALE: 1/2" = 1'-0" SHEET 2 OF 3

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| Drawn by / Date | Checked by / Date | Sheet Number | Rev. No. |
|---|---|---|---|
| WBH 10/05/20 | KJK 10/19/20 | MA-COR-STD-001-02 | 6 |
| Approved by / Date MJL 10/19/20 | Murray Hill Ave - Pro Drawing Rev0.dwg | | |

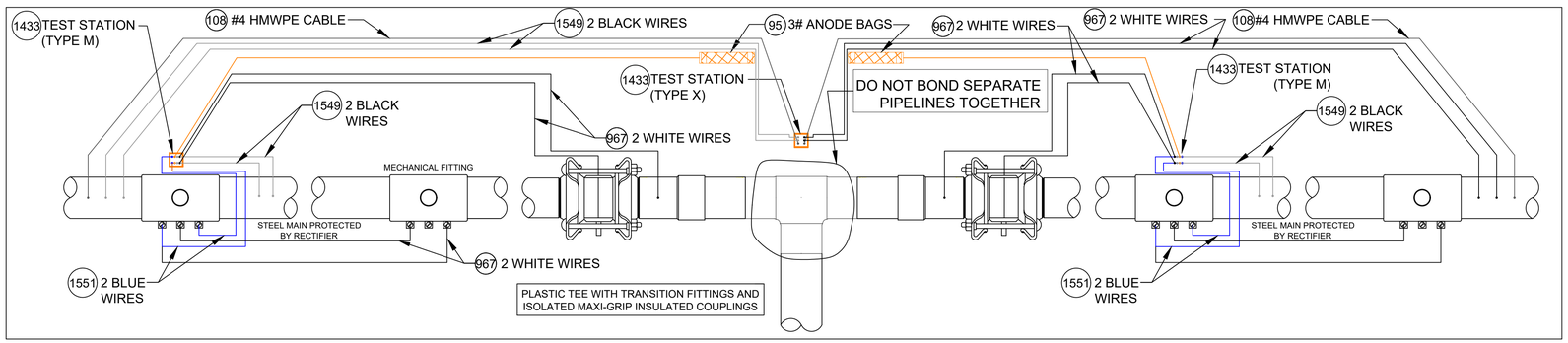
Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

C:\users\ljohnson\projectwise\fs\d\03999451\ Murray Hill Ave - Pro Drawing Rev0.dwg
Oct 10, 2024 - 10:59am



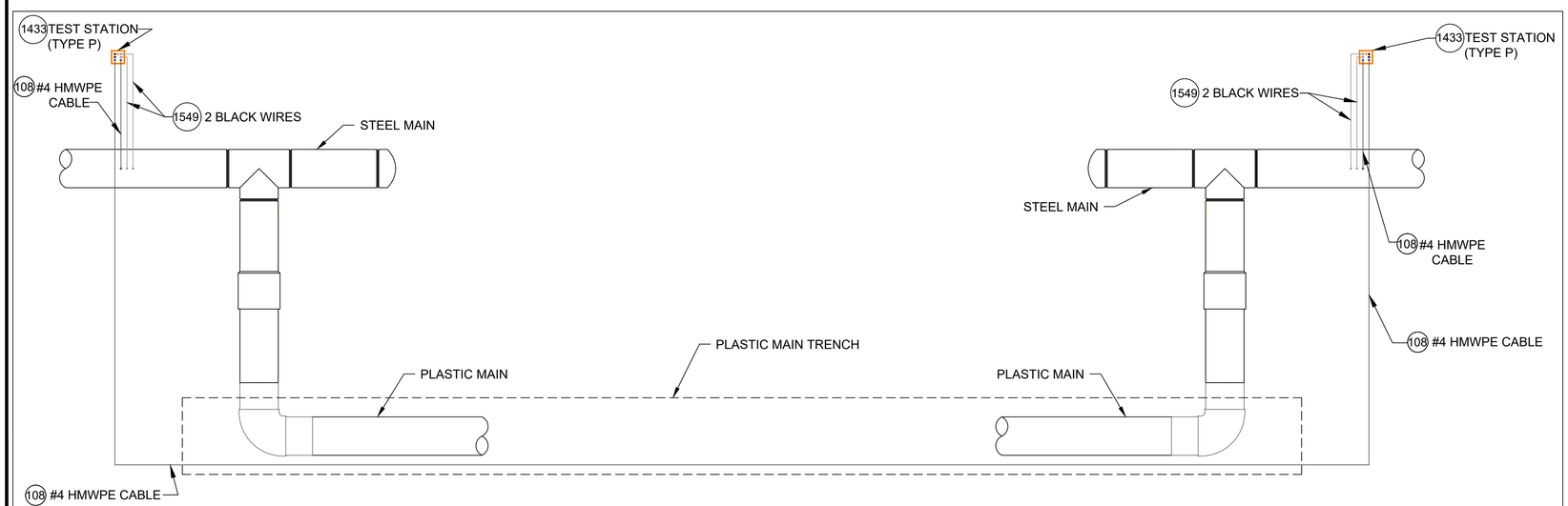

## ANODE INSTALLATION FOR MULTIPLE MECHANICAL FITTINGS INSTALLED ON NON-ELECTRICALLY CONTINUOUS SECTIONS OF COATED STEEL PIPING

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 |
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| 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:

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.
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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).
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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: 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.

| No. | Description | Date | Dw/Ck/Ap |
|---|---|---|---|
| 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 |

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

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

| Drawn by / Date | Checked by / Date | Sheet Number | Rev. No. |
|---|---|---|---|
| WBH 10/05/20 | KJK 10/19/20 | MA COR-STD-001-03 | 6 |
| Approved by / Date MJL 10/19/20 | Murray Hill Ave - Pro Drawing Rev0.dwg | | |

Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

Murray Hill Ave - Pro Drawing Rev0.dwg
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Oct 10, 2024 - 10:59am

Murray Hill Ave - Pro Drawing Rev0.dwg

| No. | Description | Date | Dw/Ck |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| A | ISSUED FOR REVIEW | 10/18/24 | KMQ/AM |

Revision/Status

MURRAY HILL AVE, SPRINGFIELD, MA

PROJECT # 25EG054 / WORK ORDER # XXXX

PLAN

SCALE: NTS SHEET 34 OF 34

| Drawn by / Date | Checked by / Date | Drawing Number | Rev. No. |
|---|---|---|---|
| | | MA-SPR-PIP-25-022-34 | A |

FIELD VERIFY DIMENSIONS PRIOR TO PIPE FABRICATION

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Oct 10, 2024 - 10:59am

Attachment: Murray Hill Ave - Pro Drawing Rev0 (8574 : EVERSOURCE - Murray Hill Ave.)

EVERSOURCE ENERGY

October 22nd, 2024

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

ATTN: Gladys Oyola-Lopez, City Clerk

**PROJECT NAME: Murray Hill Ave**

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 Liberty Heights Neighborhood (as seen in the attached plan). Work will extend to the following streets in varying degrees/durations:

| Street Name | From | To |
|---|---|---|
| Ledyard St | Liberty St | Armory St |
| Genesee St | Armory St | Franklin St |
| Tracy St | Liberty St | Franklin St |
| Nursery St | Franklin St | End of Road |
| Murray Hill Ave | Liberty St | Franklin St |
| Franklin St | Genesee St | Underwood St |
| Liberty St | Ledyard St | Webster St |
| Columbia Ter | Liberty St | 100’ West on Columbia Ter |
| Heywood St | Liberty St | 25’ East on Heywood St |

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

Thank you,

Ryan Barnes

Ryan Barnes
Engineer
Eversource Energy
2025 Roosevelt Ave.
Springfield, MA 01104
Cell: 413-262-3563
Email: ryan.barnes@eversource.com

Attachment: Murray Hill Ave - Springfield City Council Letter (8574 : EVERSOURCE - Murray Hill Ave.)

# City Council

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Gianna Berardi
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8571

# Donation of Goods to Elder Affairs - $1,855.20 (Mayor Sarno)

**WHEREAS**, the Department of Elder Affairs has been awarded donations totaling $1,855.20 from various individuals; and

**WHEREAS**, the gifts provided by the donors were designated for the Elder Affairs Hungry Hill St. Patrick Day Luncheon; and

**WHEREAS**, the Department has accepted the donations and seeks authorization from the City Council to accept the gifts of tangible value on behalf of the City of Springfield with the Mayor's approval; and

**WHEREAS**, the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, has certified that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the City Council Order authorizing the acceptance of the gift and use of the tangible personal property, subject to the approval of the Mayor, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

**NOW THEREFORE BE IT ORDERED**, acting pursuant to Mass. Gen. Laws ch. 4410, sec. 53A 1/2, that the City Council hereby accepts the donation of goods, and authorizes the Department of Elder Affairs to use the goods for the purpose stated in this order.

**Donation of Goods to Elder Affairs - $1,855.20**

## Donations to Hungry Hill for their St. Patrick Day Luncheon - 3/17/2025

| | | |
|---|---|---|
| 1 | Golden Age Club - Purchase food from Nathan Bill's | $ 300.00 |
| 2 | Seniors of Hungry Hill - Gave a Free Will Donation for food purchased from Nathan Bill's | $ 299.20 |
| 3 | Golden Nozzle Car Wash - 12 coupons - free car wash - 2 booklets -$99.00 each | $ 198.00 |
| 4 | Costco Shop Card | $ 75.00 |
| 5 | Big - Y - Two Gift Cards - 50.00 each | $ 100.00 |
| 6 | The Bread Basket - Gift Card | $ 25.00 |
| 7 | Gift items donated for raffle | $ 858.00 |
| | | $ 1,855.20 |

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs -

Nathan Bill's BAR & RESTAURANT

# RECEIPT

Nathan Bills Bar & Restaurant

110 Island Pond Road
Springfield, MA 01118
413-737-6135
Nathanbillsefp@outlook.com
TJSBANQUETS@gmail.com

RECEIPT NO. 100
DATE 2/9/25

Linda To Go
Monday March 17, 2025
**Appx 70 ppl**
Food out for

TO GO

| PAYMENT METHOD | CHECK NO. | JOB |
|---|---|---|
| | | |

| ITEM # | | UNIT PRICE | LINE TOTAL |
|---|---|---|---|
| 70.00 | Corned Beef Sandwiches w Cheese | 10.00 | $ 700.00 |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |
| | | | $ - |

| | | | |
|---|---|---|---|
| TOTAL DISCOUNT | $ | 140.00 | 20% |
| SUBTOTAL | $ | 560.00 | |
| GRATUITY 20% | | $0.00 | 20.00% |
| TAX 7% | | $39.20 | 7.00% |
| Room Fee | | | |
| TOTAL | $ | 599.20 | |
| DEPOSIT | | | |
| BALANCE DUE | $ | 599.20 | |

Golden Age $300 paid
Free will donation 299.20 paid
$599.20
(members)
Sheila**
Regal Vannucchi

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Golden Nozzle® CarWash

a nouria affiliated company

2/27/25

Hi Linda,

- Here are 2 best books.
- 6 washes per book
- no expiration
- value $99.00 each ✓

Thank you

Lisa

Rec'd on 3/3/25

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

EXTERIOR BEST BOOK
Golden Nozzle®
Car Wash
An F.L. Roberts Service
www.flroberts.com

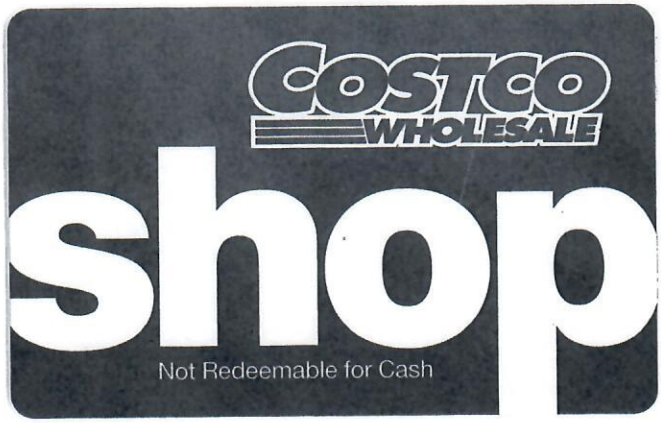
**********
===== Costco Activation Receipt ======
Purchased from Warehouse 302

Costco Shop Cards cannot be returned
or redeemed for cash.

**********
SHOP CARD ACTIVATED
Approved
6322832757737527 75.00 75.00
**********

03/12/2025 15:53 302 3 198 851
**********

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)




Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Big Y YOUR FAMILY MARKET

1090 ST. JAMES AVENUE
SPRINGFIELD, MA 01104
Mike Matyszewski - STORE DIRECTOR
(413) 732-5177

BIG Y GC ACTIVATION

GIFT CARD XXXXXXXXXXXX0012

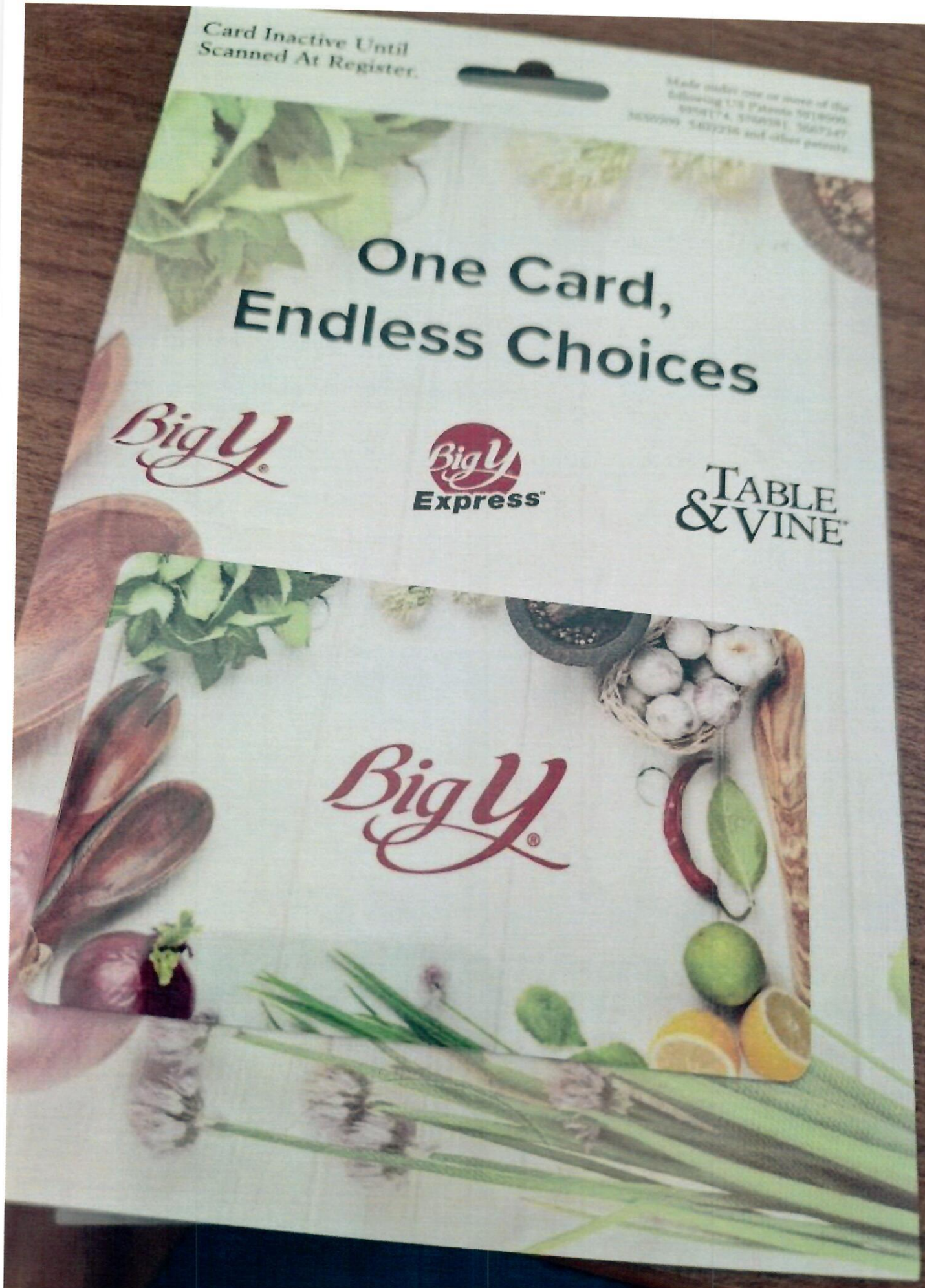
KEEP ACTIVATION SLIP WITH GIFT CARD

+++ APPROVED +++

| | |
|---|---|
| Beginning Balance: | 0.00 |
| Transaction Amount | 50.00 |
| Ending Balance: | 50.00 |

Auth # 232646
Register 01 Cashier #4531
03 13 25 13 06 Ref 590100064

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)




Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Big Y YOUR FAMILY MARKET

1090 ST. JAMES AVENUE
SPRINGFIELD, MA 01104
Mike Matyszewski - STORE DIRECTOR
(413) 732-5177

BIG Y GC ACTIVATION

GIFT CARD XXXXXXXXXXXX2814

KEEP ACTIVATION SLIP WITH GIFT CARD

++++ APPROVED +++

| | |
|---|---|
| Beginning Balance: | 0.00 |
| Transaction Amount | 50.00 |
| Ending Balance: | 50.00 |

Auth # 419617
Register 01 Cashier #4531
03 13 25 13 06 Ref 250100068

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Raffle Items

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

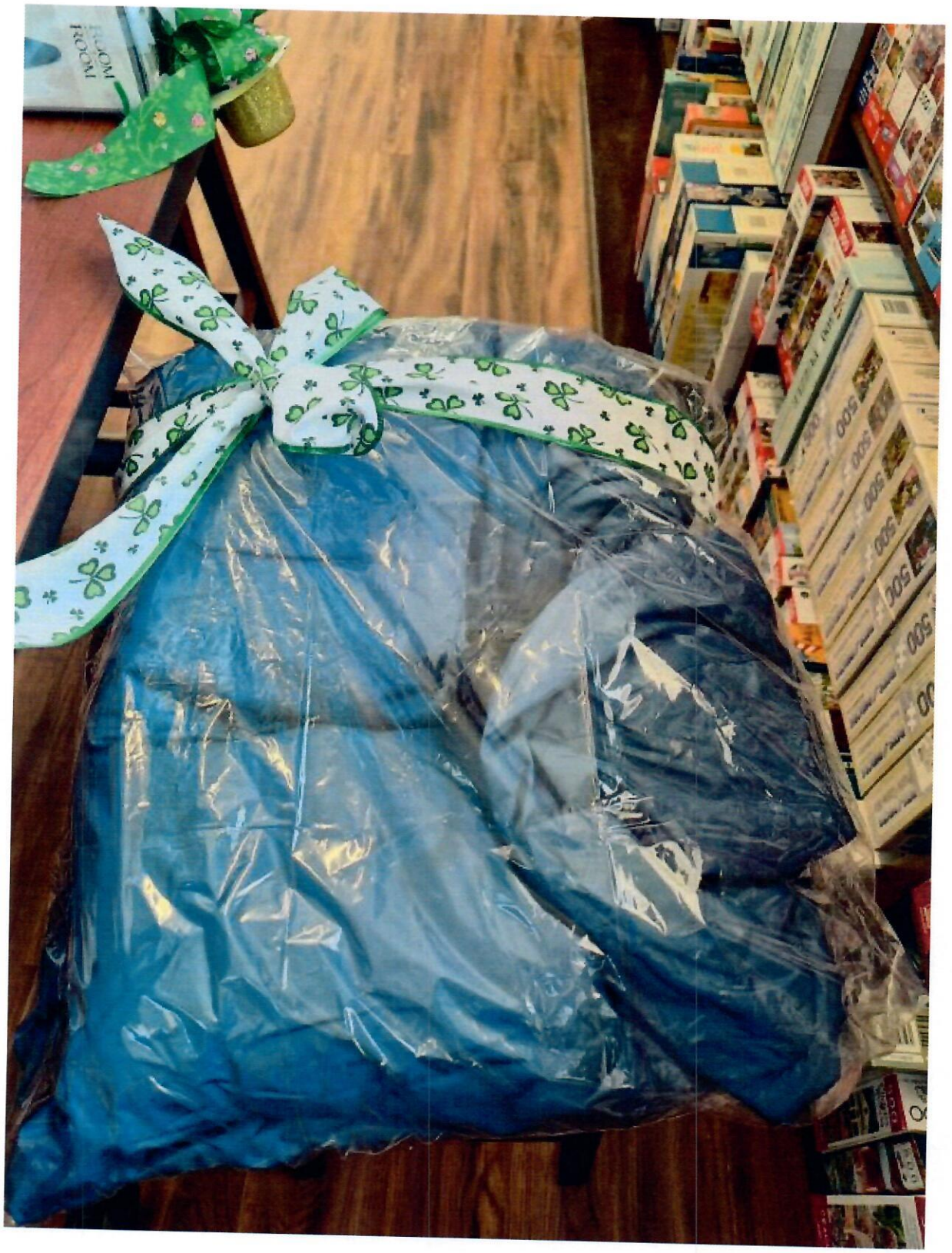
Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

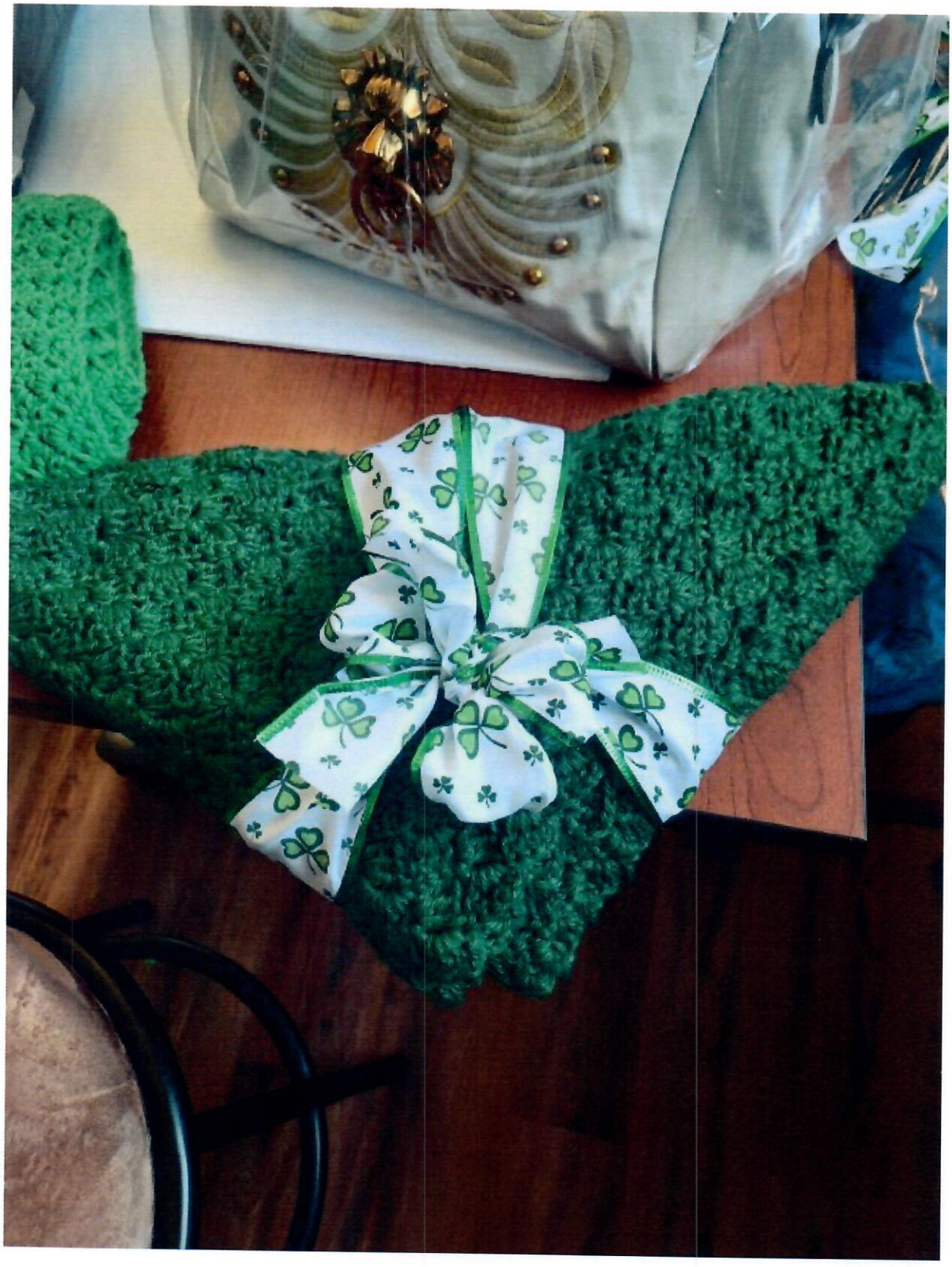
Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)



Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)



FAMILY SMART FRAME

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

Attachment: Hungry Hill St. Patrick Day Donations FY25 (8571 : Donation of Goods to Elder Affairs - $1,855.20)

# City Council

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Gianna Berardi
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8578

# National Environmental Health Association Grant - No Match Required $8,500.00 (Mayor Sarno)

**WHEREAS,** the Department of Health and Human Services, has been awarded a National Environmental Health Association Grant in the amount of $8,500.00 from the National Environmental Health Association-U.S. Food and Drug Administration Retail Flexible Funding Model Grant Program for the budget period April 01, 2025 through March 31, 2026; and

**WHEREAS,** the Department intends to work on an evaluation of Springfield's program in comparison to the FDA Program Standards and put into place an improved program by adopting and implementing the FDA Program Standards into the Springfield Environmental Health Program; and

**WHEREAS**, the Department has accepted the grant funds and requests authorization from the City Council and the Mayor to expend the grant funds listed below for the purposes of such grants; and

**WHEREAS**, the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, has certified that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the City Council Order authorizing the expenditure of the grant funds listed herein, subject to the approval of the Mayor, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

**NOW THEREFORE BE IT ORDERED**, acting pursuant to Mass. Gen. Laws ch. 44, sec. 53A, that the City Council approves the expenditure by the Department of the grant funds listed below for the purposes of such grant, subject to the approval of the Mayor, and the grant funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for the purposes of the grant without further appropriation.

**National Environmental Health Association Grant - No Match Required - $8,500.00**

# REQUEST FOR GRANT SETUP

This form and the required attachments are required by the Office of the City Comptrollers before a Grant Fund and related accounts will be created in MUNIS. Please do not use this form for requesting a non-grant related account to be created – use the Request for New Account form instead. Please return this form and the required attachments to the Office of the City Comptrollers.

All fields are mandatory.

| | |
|---|---|
| Date of Request | 04/01/2025 |
| Department Requesting Grant Setup | SDHHS |
| Department Phone # (Please include extension) | 413-787-6710 |
| Name and Title of Person to Contact in Case of Questions | Nicole Longtin |

Was this Grant previously setup for a prior fiscal year?
If yes, please indicate your previous project number: NEHA4

If this is a new Grant, have you filled out the "Approval to apply for a grant" Form?
(Y/N) N/A If yes, please attach a copy of the Approved Form.

| | Grant Type: |
|---|---|
| | State – Highway |
| | Federal Pass-Through DOE– School |
| | Federal Direct– School |
| X | Federal – City |
| | State DOE– School |
| | State Other – School |
| | State – City |
| | Private/Other |

Grant Name: National Environmental Health Association

Total Grant Amount Awarded: $8,500.00

Attachment: FY25 NEHA Grant (8578 : National Environmental Health Association Grant - No Match Required $8,500.00)

Is this a Reimbursable Grant? (Y/N) YES
A Reimbursable Grant is defined as one that requires that you pay for expenses first and then you apply to the grantor for a reimbursement of the exact amount actually expended.

If it is a Reimbursable Grant, please enter Grantor contact information or the CID # if Grantor is already in the customer file:

| | |
|---|---|
| Entity Name | NEHA |
| Contact Person | David T. Dyjack |
| Street Address | |
| City, State, Zip Code | |
| Telephone | 1-833-575-2404 |
| Fax | |
| E-Mail | retailgrants@neha.org |

| | |
|---|---|
| Actual Award Date | 04/01/2025 |
| Board Approval Date | |
| Start Date | 04/01/2025 |
| Expiration Date | 03/31/2026 |
| Renewal Action Date (optional) | N/A |

If there are any Matching Funds:
- Type
- Percent
- Amount

Is there any Leverage? HUD FUNDING ONLY
- Source
- Amount

Comments re: Description/Purpose of Grant
Retail Flexible Funding Model (RFFM) Grant Program

Comments re: Conditions/Restrictions of Grant
See budget

If this is a Federal Grant, enter CFDA#: 93.224

If applicable enter the State ID # :

What is the required drawdown frequency?
(Ex: Monthly, Quarterly) Upfront Grant

If payment is to be sent by Grantor as a Wire,
Please enter any wire reference/identification # that may be used (if known)

Attachment: FY25 NEHA Grant (8578 : National Environmental Health Association Grant - No Match Required $8,500.00)

Please list all object codes needed for the grant.
(Attach additional sheets if additional orgs and roll-ups are needed):

Org Code:26965200

Object Codes:

Budget Roll-Up Codes: Yes

I hereby attest that under the penalties of Chapter 656, I will adhere to all regulations in this grant agreement. I am responsible for timely and accurate reimbursements in the amounts listed above.

Signature

4/1/25
Date

Please attach the following documents:

- Signed Approval to Apply for a Grant Form
- Grant Award Letter
- City Council/Mayor Approval
- Any other relevant documentation

This Form and all relevant attachments will be scanned and attached in the Grant Maintenance module in MUNIS and can be viewed or printed at your convenience.

Attachment: FY25 NEHA Grant (8578 : National Environmental Health Association Grant - No Match Required $8,500.00)

# NEHA-FDA Retail Flexible Funding Model Grant Program
## Official Notice of Award for One-Year Grants

April 1, 2025

**Grant Number:** G-202410-05775
**Application Type:** 2025 Track 2 Development Base
**Project Title:** Springfield MA Program Standards
**Project Summary:** 1. Complete verification audits of Standards 3 and 7 if not complete by end of 2024. Meet and audit Standard 5. 2. N/A 3. Attend on-site mentorship visit and NACCHO end-of-year meeting. Work with mentors to make progress towards Standards and policies. 4. Attend NEHA Annual Education Conference, FDA Retail Food Protection Seminar, NACCHO Annual Conference, Conference for Food Protection, and hopefully another retail food safety conference if there is leftover funding. 5. N/A
**Amount Requested:** $22,500.00
**One-Year Award Amount:** $8,500.00
**Project Period:** 4/1/2025 to 3/31/2026

**Unique Federal Award Identification Number (FAIN):** 1U19FD008288
**CFDA Number:** 93.103
Awarded to NEHA on 09/10/2024

Samantha Chartier
City of Springfield, MA
Dept. of Health and Human Services
Springfield, MA 01105

Dear Samantha:

Your application has been approved for Springfield MA Program Standards as part of the National Environmental Health Association (NEHA)-U.S. Food and Drug Administration (FDA) Retail Flexible Funding Model (RFFM) Grant Program, with funding provided by the FDA. Approval is based on review of the project plan and budget details in your submitted application.

As part of your application, your agency has made an assurance that it will comply with all applicable federal statutes and regulations in effect during the grant period, including applicable parts of 45 CFR Part 75. Acceptance of this award and/or any funds provided by the NEHA-FDA Retail Flexible Funding Model Grant Program acknowledges agreement with all the terms and conditions in this award letter.

The amount of $8,500.00 represents the full amount of funds to which you are entitled. Grant awards are made with the understanding that NEHA-FDA Retail Flexible Funding Model Grant Program staff may require clarification of information within your application, as necessary, during the application, project, or reporting periods. These inquiries may be necessary to allow us to appropriately carry out our administrative responsibilities.

**Specific Conditions of Your Award**
In addition to the general Terms and Conditions of your award as listed below, the following are additional conditions specific to your award:

**The following component(s) of your project have been fully funded:** $5,000 for work on Standards 1-8.

Attachment: FY25 NEHA Grant (8578 : National Environmental Health Association Grant - No Match Required $8,500.00)

**The following component(s) of your project have been partially funded:** $3,500 for the Training Opti Add-On.

**The following component of your project is NOT funded:** Mentee Optional Add-On.

Reduced funding amounts are not due to the quality of your Track 2 Development Base application but are a result of an overall funding reduction to the NEHA-FDA RFFM Grant Program. For CY 2025, Mentee awards are limited to Track 1 applicants only. Track 2 training requests are being reduced to a maximum of $3,500, but unless otherwise noted, any travel requested in your application is allowable for reimbursement up to the reduced award amount.

Please reach out to the Grant Program Support Team with any questions regarding CY 2025 funding.

**Budget**
To review specific details of the approved budget in your grant award, please log into the NEHA-FDA RFFM Grant Portal where you can view and print your grant (including your budget justifications) and your budget worksheets.

**Total Award Amount:** $8,500.00

Budget changes are allowable but must be justified and approved in advance and in writing by the NEHA-FDA RFFM Grant Program Support Team. None of the funds in this award shall be used to pay the salary of an individual at a rate in excess of the current Executive Level II of the Federal Executive Pay Scale for any specific funding year.

**Terms and Conditions**
Your award is based on the project application referenced in this Notice of Award, submitted to and approved by NEHA. Payment is contingent on continued Federal Funding from the United States Food and Drug Administration, and is subject to the following terms and conditions:

The grantee must complete the full scope of work and all tasks outlined in the approved grant application by the Project End Date, unless NEHA grants a written exception. The recipient agrees to comply with the current FDA general terms and conditions (HHS Grant Policy Statement).

Restrictions on the expenditure of funds in federal appropriations acts apply to this award, to the extent those restrictions are applicable to subawards made under federal grants. Please refer to 2 CFR 200.400 for guidance on relevant cost principles.

For the complete Terms and Conditions of this award, including links to all relevant federal guidance, please see the **Reporting and Payments** link on the NEHA-FDA RFFM webpage (https://www.neha.org/retail-grants).

**Reporting**
Reports with due dates will be accessible by logging into the Grant Portal, found on the NEHA-FDA RFFM webpage. Reminders will be sent to the email address of your organization's Point of Contact regarding upcoming and past due reports.

Interim Progress Reports will be required each year for awards made through this program to assure that each funded project remains on track for timely completion. For one-year awards, an Interim Progress Report will be due halfway through the project period.

When all project objectives have been completed, a Final Project Report must be submitted through the online grant portal no later than 45 days after your Project End Date. As part of the final report, the grantee must provide a full accounting of all expenditures made with funds from this grant award accompanied by the required documentation.

For complete information on required reporting, please see the **Reporting and Payments** link on the NEHA-FDA RFFM webpage.

**Reimbursement Requests**

Attachment: FY25 NEHA Grant (8578 : National Environmental Health Association Grant - No Match Required $8,500.00)

For one-year awards made through this grant program, payment is normally made on a reimbursement ba at the end of the project, following submission of all required reporting.

Advance payment is available for one-year awards when required by a jurisdiction. To request advance payment, please email an explanation to the **NEHA-FDA RFFM Grant Program Support Team** at retailgrants@neha.org. For additional details, please see the **Reporting and Payments** link on the NEHA-FDA RFFM webpage.

Unless otherwise requested, your first report will be the Interim Progress Report due halfway through the project period.

**Recipient FDA Notice**
As a reminder, recipients of funding through this program are required to assure that project activities achieve greater conformance with the FDA Voluntary National Retail Food Regulatory Program Standards (Retail Program Standards). For additional information regarding the Retail Program Standards, please visit the FDA's official webpage at: https://www.fda.gov/food/retail-food-protection/voluntary-national-retail-food-regulatory-program-standards.

**Allowable and Non-allowable Costs**
For information on allowable and non-allowable costs, please refer to the **NEHA-FDA RFFM Grant Guidance** link on the NEHA-FDA RFFM webpage.

**Base Grant Requirement**
Once awards under the NEHA-FDA RFFM Grant Program have been made, all grantees must complete their Base activities (specified either in their Development Base Grant or Maintenance and Advancement Base Grant) to remain eligible for Optional Add-Ons and Grants (Training funds, Mentee funds, Mentor grants). During the performance period of open awards, if Base activities are not substantially completed, Add-On funding may also be in jeopardy of cancellation.

**Travel Costs**
Travel costs should adhere to the general guidelines found in the **NEHA-FDA RFFM Grant Guidance**. Contact the NEHA-FDA RFFM Grant Program Support Team with specific travel-related questions not covered in the guidance.

**Financial Conflict of Interest**
This award is subject to the Financial Conflict of Interest (FCOI) regulation at 42 CFR Part 50 Subpart F.

**Contact us for Support**
If you have questions about this award, please contact the NEHA-FDA RFFM Grant Program Support Team. Additionally, the FDA Retail Food Safety Specialist assigned to your geographic area is an integral part of your jurisdiction's successful completion of Retail Program Standards activities and is available to assist with your funded project.

**NEHA-FDA RFFM Grant Program Support Team**
retailgrants@neha.org
1-833-575-2404

**FDA Retail Food Safety Specialist Contact Information**
https://www.fda.gov/food/voluntary-national-retail-food-regulatory-program-standards/directory-fda-retail-food-specialists

We appreciate your ongoing commitment to achieving greater conformance with the Voluntary National Retail Food Regulatory Program Standards.

Sincerely,

David T. Dyjack, DrPH, CIH

Attachment: FY25 NEHA Grant (8578 : National Environmental Health Association Grant - No Match Required $8,500.00)

Attachment: FY25 NEHA Grant (8578 : National Environmental Health Association Grant - No Match Required $8,500.00)

# City Council

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Trevor Crawford
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8569 A

# Bills of Prior Year - Police Department - $10,806.80 (Mayor Sarno)

**WHEREAS,** to meet expenses incurred by the City of Springfield, pursuant to Mass. Gen. Laws Ch. 44 Section 64 and Chapter 468 of the Acts of 2008, the Chief Administrative and Financial Officer ("CAFO") and his Honor the Mayor have requested authorization from the City Council that the Department listed on the attached CAFO certification may pay bills from previous fiscal years totaling $10,806.80; and

**WHEREAS**, the department listed will make payment for unpaid bills of a previous fiscal year from their FY25 General Fund Operating Budget; and

**WHEREAS,** the Chief Administrative and Financial Officer has provided a written certification to the Mayor and City Council, that in her professional opinion, after an evaluation of all pertinent financial information reasonably available, the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the payments, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008;

**NOW THEREFORE BE IT ORDERED**, that the City Council approves the payment of the bills listed on the attached CAFO certification from the FY25 General Fund Departmental Operating Budget for the expenses incurred in a previous fiscal year.

**Bills of Prior Year - Police Department - $10,806.80**

City of Springfield
36 Court Street
Springfield, MA 01103

Division of Administration
and Finance

**To:** **Springfield City Council**

**From:** **Cathy Buono, Chief Administrative & Financial Officer**

**Date:** **April 7th, 2025**

**Re:** **Order for Council Meeting – 04/07/2025**

**Cc:** **Mayor Domenic J. Sarno**

---

**Purpose:** The purpose of this memo is to provide an explanation of the order sponsored by the Mayor for the April 7th, 2025 Council meeting, which authorizes the City to pay $10,806.80 towards bills for services rendered in a prior year.

**Background:** This is a request to allow the Police Department to pay prior year bills from its current year (FY25) operating budget. Listed below is the department, invoices, dates, reasons and amounts.

| Department | Invoice # | Vendor | Date | Reason | Amount |
|---|---|---|---|---|---|
| Police | 1187142777 | Motorola Solutions Inc. | 6/9/2023 | FY23 Services Rendered | $ 10,395.00 |
| Police | 204996 | Springfield Tire & Auto | 4/5/2024 | FY24 Services Rendered | $ 411.80 |
| **Total** | | | | | **$ 10,806.80** |

**CAFO Certification:** This memorandum will confirm that in my professional opinion, as the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in this City Council Order, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

This certification is made in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

Attachment: PD - CAFO Cert BOPY (8569 : Bills of Prior Year - Police Department - $10,806.80)

MOTOROLA SOLUTIONS

# ORIGINAL INVOICE

**Motorola Solutions, Inc.**
500 West Monroe
Chicago IL 60661
United States
**Federal Tax ID: 36-1115800**

| Transaction Number | Transaction Date | Transaction Total |
|---|---|---|
| 1187142777 | 07-MAR-2025 | **10,395.00 USD** |

| P.O. Number | P.O. Date | Customer Account No |
|---|---|---|
| 23015857 | 09-JUN-2023 | 1035186982 |

| Payment Terms | Payment Due Date |
|---|---|
| Net Due in 45 Days | 21-APR-2025 |

Visit our website at www.motorolasolutions.com

**Bill To Address**

SPRINGFIELD POLICE DEPT, CITY OF
ATTN: Accounts Payable
130 PEARL ST
SPRINGFIELD MA 01105
United States

**Project No:** USMA22D018SW

**Project Name:** USMA22D018SW SPRINGF

**IMPORTANT INFORMATION**

**Sales Order(s):** 3203025079

RECEIVED
MAR 06 2025
BY

**For all invoice payment inquiries contact**
AccountsReceivable@motorolasolutions.com
Telephone: 800-247-2346
Fax: +1(631)883-4238

**SPECIAL INSTRUCTIONS / COMMENTS**
**General Comment:** PROJECT NUMBER: USMA22P018

| Line Item # | Item Number | Description | Qty. | Unit Price (USD) | Amount (USD) |
|---|---|---|---|---|---|
| 1 | | 1 LSV00Q00379A SYSTEM PROGRAMMING - PROGRAMMING OF VIDEO CLOUD CONNECTION AND FEDERATION OF 19 CAMERAS WITH WATCHTOWERS MUSEUM PARK VIDEO SYSTEM | 1 | 10,395.00 | 10,395.00 |

| | | |
|---|---|---|
| **USD** | **Subtotal** | **10,395.00** |
| **USD** | **Total** | **10,395.00** |
| **USD** | **Amount Due** | **10,395.00** |

**Please detach here and return the bottom portion with your payment**

**Payment Coupon**

| Transaction Number | Customer Account No | Payment Due Date |
|---|---|---|
| 1187142777 | 1035186982 | 21-APR-2025 |

| Transaction Total | Amount Paid |
|---|---|
| **10,395.00 USD** | $10,395.00 |

**Please put your Transaction Number and your Customer Account Number on your payment for prompt processing.**

SPRINGFIELD POLICE DEPT, CITY OF
ATTN: Accounts Payable
130 PEARL ST
SPRINGFIELD MA 01105
United States

**Payment Transfer Details**

CHICAGO
WIRE Routing Transit Number: 026009593
ACH/EFT Routing Transit Number: 111000012
SWIFT: BOFAUS3N
Bank Account No: 3756319819

**Send Payments To:**

MOTOROLA SOLUTIONS
Motorola Solutions, Inc.
13104 Collections Center Drive
Chicago IL 60693
United States
Please provide your remittance details to:
US.remittance@motorolasolutions.com

DIVERSION CONTRARY TO EXPORT CONTROL LAW IS PROHIBITED

Attachment: PD BOPY- MOTOROLA SOLUTIONS INV#1187142777 (8569 : Bills of Prior Year - Police Department - $10,806.80)

**Springfield Tire & Auto #7692**
**435 Dwight St**
**SPRINGFIELD,MA 01103**
**(413)733-2141**



**Customer ID:** 7692000305
**Name:** SPRINGFIELD POLICE DEPARTMENT
Address: 130 PEARL ST
Address 2:
City,State,Zip Code: SPRINGFIELD, MA, 01103
Home Phone: (413) 787-6347
Work Phone: (413) 787-6345
Mobile Phone: () -
Tax Exempt #:

Year: 24
Make: TIRE
Model: PURCHASE
Lic No:
VIN:
Color:
Engine:
Mileage In: 0
Mileage Out: 0

Create Date: 04/05/24 09:56:11
Date/Time: 04/05/24 15:34:47
Workorder #: 214959
Invoice #: 204996

Email Address: ap@springfieldpolice.net
PO Number: 24001070
Fleet/Wholesale: Y

Salesperson: M. GONZALES
**Service comments:**

| Qty. | Part # | RFR | Loc | Description | Parts | Labor | Total |
|---|---|---|---|---|---|---|---|
| 4 | 046010000 | | | ADVANTA HPZ02 2454518 GDYR | 102.95 | 0.00 | 411.80 |

***** Customer Wishes To Discard Old Parts_____*****

**REQUIREMENTS**
P.O. NUMBER STATE CONTRACT VEH 109 GS/AN # 1 G0009172

**AR TERMS:** Net 10th

**Remit To:** Springfield Tire & Auto Servic
435 Dwight ST
Springfield, MA 01103

I UNDERSTAND THAT ALL CUSTOM WHEEL LUG NUTS MUST BE RE-TORQUED AFTER 25 MILES & CHECKED PERIODICALLY
THANK YOU FOR YOUR BUSINESS

PAY HOUSE AMOUNT 411.80
TECH:

| | |
|---|---|
| PARTS TOTAL | 411.80 |
| SALES TAX | 0.00 |
| LABOR TOTAL | 0.00 |
| GRAND TOTAL | 411.80 |

THIS IS A HISTORY REPRINT (Reprinted: 03/06/25 13:42:22)

Attachment: PD BOPY- SPRINGFIELD TIRE & AUTO INV#204996 (8569 : Bills of Prior Year - Police Department - $10,806.80)

**City Council**

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Madison Woodard
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8573

# Order Authorizing Expenditure of FY25 – State of Massachusetts Fair Share Amendment Funds $807,384.41 (Mayor Sarno)

**WHEREAS**, the Commonwealth of Massachusetts has appropriated an amount of FY2025 Fair Share Amendment Funds in the amount $45 million statewide, the City of Springfield was notified on March 25, 2025, that the City had been awarded $807,384.41. This amount has been incorporated into the City of Springfield 10-year Chapter 90 Contract (City Contract #20170622), and

**WHEREAS**, this appropriation provides for the payment of funds to the City of Springfield in order to continue efforts to maintain and upgrade the roadway systems of the City; and

**WHEREAS**, the Commonwealth of Massachusetts will reimburse the City of Springfield for costs associated with these roadway improvements through disbursements made pursuant to Mass Gen. Laws Ch. 90, sec. 34(2)(a); and

**WHEREAS**, after reviewing this order, the Chief Administrative and Financial Officer certifies to the Mayor and City Council that in her professional opinion, after an evaluation of all pertinent financial information reasonable available, the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the expenditure of these grant funds, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2 (f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008;

The specific Legislative language for these funds is as follows:

*1596-2428 For an operating transfer to the Massachusetts Transportation Trust Fund established in section 4 of chapter 6C of the General Laws for the construction and reconstruction of municipal ways as described in clause (b) of the second paragraph of said section 4 of said chapter 6C; provided, that a city or town shall comply with the procedures established by the Massachusetts Department of Transportation; provided further, that a city or town may expend, without further appropriation, for these projects amounts not in excess of the amount provided to the city or town under this item upon preliminary notice of such amount, which shall be provided by the department to the city or town not later than March 3, 2025; and provided further, that the commonwealth shall reimburse a city or town under this item, subject to the availability of funds as provided in section 9G of chapter 29 of the General Laws, within 30 days after receipt by the department of a request for reimbursement from the city or town, which shall include certification by the city or town that actual expenses have been incurred on projects eligible for reimbursement under this item and that the work has been completed to the satisfaction of the city or town according to the specifications of the project and in compliance with applicable laws and procedures established by the department ..... $45,000,000*

**NOW THEREFORE BE IT ORDERED,** acting pursuant to Mass. Gen. Laws ch. 44, sec. 53A, that the City Council approves the expenditure by the Department of Public Works of the Chapter 90 grant funds for the purposes listed below, subject to the approval of the Mayor, and the grant funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for these purposes without further appropriation:

| | **Item** | **Chapter 90 Appropriation** |
|---|---|---|
| 1 | Arterial and Residential Reconstruction | $ 807,384.41 |
| | Totals | **$807,384.41** |

**FY25 Transportation Improvement Funds - $807,384.41**
**Chapter 90 Contract #20170622**

**FINANCIAL IMPACT:**

The Commonwealth of Massachusetts has appropriated an amount of local transportation aid funding as part of a State of Massachusetts FY2025 Fair Share Amendment for the City of Springfield in the amount of $807,384.41

**City Council**

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Madison Woodard
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8572

# Order Authorizing Expenditure of FY26 Chapter 90 Funds - $5,035,405.80 (Mayor Sarno)

WHEREAS, the Commonwealth of Massachusetts has appropriated an amount of Chapter 90 local transportation aid funding for Fiscal Year 2026 in the amount $200 million statewide, the City of Springfield was notified on February 27, 2025, that the City had been awarded $5,035,405.80. This amount has been incorporated into the City of Springfield 10-year Chapter 90 Contract (City Contract #20170622), and

WHEREAS, this appropriation provides for the payment of funds to the City of Springfield in order to continue efforts to maintain and upgrade the roadway systems of the City; and

WHEREAS, the Commonwealth of Massachusetts will reimburse the City of Springfield for costs associated with these roadway improvements through disbursements made pursuant to Mass Gen. Laws Ch. 90, sec. 34(2)(a); and

WHEREAS, after reviewing this order, the Chief Administrative and Financial Officer certifies to the Mayor and City Council that in her professional opinion, after an evaluation of all pertinent financial information reasonable available, the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in the expenditure of these grant funds, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2 (f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008;

**NOW THEREFORE BE IT ORDERED,** acting pursuant to Mass. Gen. Laws ch. 44, sec. 53A, that the City Council approves the expenditure by the Department of Public Works of the Chapter 90 grant funds for the purposes listed below, subject to the approval of the Mayor, and the grant funds received shall be deposited with the City Treasurer and held as a separate account and may be expended for these purposes without further appropriation:

**Chapter 90 Funds Proposed Usage -**

| | **Item** | **Chapter 90 Appropriation** |
|---|---|---|
| 1 | Arterial and Residential Paving Program | $4,000,000.00 |
| 2 | Design, Easements, Takings, etc. | $660,405.80 |
| 3 | Road Maintenance - Crack Sealing | $150,000.00 |
| 4 | Traffic Signal Improvements | $125,000.00 |
| 5 | Project Salary Support | $100,000.00 |
| | **Total Chapter 90 Appropriation** | **$5,035,405.80** |

**FY26 Chapter 90 Apportionment Total: $ 5,035,405.80**

**City Council**

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Melvyn Altman
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8577

# Order Authorizing Transfer of the Care, Custody, Management and Control of South Side Marble St. (Parcel-ID #08235-0037) from the Tax Title Custodian to the Board of Park Commissioners (Mayor Sarno)

**WHEREAS**, on August 11, 2008, the City of Springfield acquired title to South Side Marble St. (Parcel-ID #08235-0037), containing about 6,019 square feet with an assessed value of $25,400, through tax title foreclosure proceedings in Land Court; and

**WHEREAS**, said parcel is vacant land, formerly with building thereon, and formerly known as 73-75 Marble St.; and

**WHEREAS**, said parcel is classified as saleable land and is under the care, custody, management and control of the Tax Title Custodian; and

**WHEREAS**, said parcel abuts Emerson Wright Park and the Parks Department has requested that said parcel be transferred to its control; and

**WHEREAS**, the Tax Title Custodian has determined that said parcel is not needed for any other municipal purpose and has no objection to the transfer; and

**WHEREAS**, the Board of Park Commissioners voted at a meeting held on November 21, 2024 to accept care, custody, management and control of said parcel from the Tax Title Custodian; and

**WHEREAS**, such a transfer requires a two-thirds vote of the City Council and the approval of the Mayor.

**NOW THEREFORE BE IT ORDERED**, pursuant to Massachusetts General Laws Chapter 40, Section 15A, that the care, custody, management and control of South Side Marble St. (Parcel-ID #08235-0037) be transferred from the Tax Title Custodian to the Board of Park Commissioners subject to the approval of the Mayor.

**City Council**

**TABLED**

Meeting: 04/07/25 07:00 PM
Initiator: Gianna Berardi
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8500

# Collective Bargaining Agreement Ratification - Springfield Public Health Nurses Association (SPHNA) (Mayor Sarno)

**WHEREAS**, the City's Labor Relations Director has received confirmation from the representative of the Springfield Public Health Nurses Association (SPHNA), that this bargaining unit has ratified new collective bargaining agreements for the time period of July 1, 2024 to June 30, 2028 with the City of Springfield; and

**WHEREAS,** the Labor Relations Department is requesting that the City Council approve the terms of the Collective Bargaining Agreement, which are described in a letter from the Labor Relations Director and Memorandum from the Chief Administrative and Financial Officer, which are attached hereto; and

**WHEREAS**, the Agreement includes wage increases effective and retroactive to July 1, 2024 of One Dollar ($1.00)/hour; and

**WHEREAS,** the Agreement includes wage increases effective July 1, 2025 of two percent (2%); and

**WHEREAS,** the Agreement includes wage increases effective July 1, 2026 of two percent (2%); and

**WHEREAS,** the Agreement includes wage increases effective July 1, 2027 of two percent (2%); and

**WHEREAS,** the Chief Administrative and Financial Officer has certified that, after an evaluation of all pertinent financial information reasonably available, that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in this City Council Order, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as amended by Section 1 of Chapter 468 of the Acts of 2008;

**NOW THEREFORE**, the City Council hereby approves the report of the Labor Relations Director regarding the ratification of the collective bargaining agreement between the City of Springfield and the Springfield Public Health Nurses Association (SPHNA) and the terms thereof, as described in the attached documents, for the time period of July 1, 2024 through June 30, 2028.

**Human Resources**
**&**
**Labor Relations**
36 Court Street, Room 005
Springfield, MA 01103
413-787-6068 (phone)
413-787-6572 (fax)

**THE CITY OF**
**SPRINGFIELD, MASSACHUSETTS**

February 06, 2025

**To the Springfield City Council**

Please be advised that this department has received confirmation from the representative of **Springfield Public Health Nurses Association (SPHNA)**, that this bargaining unit has ratified two new collective bargaining agreements for the time period of July 1, 2024 to June 30, 2025 and July 1,2025 to June 30, 2028 with the City of Springfield.

We hereby submit to you this report for approval by the City Council which reflects the following wage increases in **SPHNA's wage scale**.

Wage Increases:

**Contract One:**

Retroactive to July 1, 2024 Weekly increase of $37.50 (One Dollar ($1.00) per hour)

**Contract Two:**

Effective July 1, 2025 Two Percent (2.0%)
Effective July 1, 2026 Two Percent (2.0%)
Effective July 1, 2027 Two Percent (2.0%)

A financial order reflecting the cost of the wage increase is attached.

In accordance with the Acts of 656 of 1989, the Chief Financial Officer must give in writing her opinion relative to the financial impact of the agreement on the existing level of municipal services.

Attachment: 2024-12-20 Letter to City Council Re SPHN Ratification (8500 : Collective Bargaining Agreement Ratification - Springfield Public

If you have any other questions, please feel free to contact this office.

Sincerely,

William E. Mahoney

Director of Human Resources & Labor Relations

cc: Mayor Domenic J. Sarno

cc: Cathy Buono, CAFO

cc: File

Attachment: 2024-12-20 Letter to City Council Re SPHN Ratification (8500 : Collective Bargaining Agreement Ratification - Springfield Public

**City of Springfield, MA**
**And**
**Springfield Public Health Nurses Association**

**TENTATIVE AGREEMENT**

**11-15-24**

The parties agree that the below is a tentative agreement on the entire successor contracts and that this agreement concludes collective bargaining, subject to ratification by the parties.

All previous tentative agreements.

**CONTRACT ONE**

1. All previous tentative agreements
2. Art. 22.01 Wages-increase wages by $1.00 per hour ($37.50 per 37.5 hour work week) effective and retroactive to July 1, 2024.
3. Art. 24 Duration-July 1, 2024 to June 30, 2025
4. Update Schedule 9 to reflect new rates of pay
5. Art. 6.02 change "five working days" to "ten working days"
6. Art. 9.06 delete and replace with "Art. 9.06. If the Public Health Commissioner or his/her designee, determines that the nursing staff cannot adequately address the health needs of the City, the Department reserves the right to utilize outside agencies or employ part-time non-bargaining nurses."

**CONTRACT TWO**

1. Art. 22.01 Wages-increase current wages by 2% effective July 1, 2025, 2% effective July 1, 2026, and 2% effective July 1, 2027
2. Art. 24 Duration-July 1, 2025 to June 30, 2028
3. Update Schedule 9 to reflect new rates of pay

FOR THE CITY

DATE: 11-18-24

FOR THE ASSOCIATION

Zada Woods

DATE: 11/18/2024

Attachment: 2024-12-20 Letter to City Council Re SPHN Ratification (8500 : Collective Bargaining Agreement Ratification - Springfield Public

City of Springfield
36 Court Street
Springfield, MA 01103

Division of Administration
and Finance

**To:** **Springfield City Council**

**From:** **Cathy Buono, Chief Administrative & Financial Officer**

**Date:** **March 10, 2025**

**Re:** **Order for Council Meeting – March 10, 2025**

**Cc:** **Mayor Sarno**

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**Purpose:** The purpose of this memo is to provide an explanation of the order sponsored by the Mayor for the March 10, 2025 City Council meeting, which requests the ratification of the current agreement between the City of Springfield and the Springfield Public Health Nurses Association (SPHNA).

**Background:** This bargaining unit has ratified new collective bargaining agreements for the time period of July 1, 2024 to June 30, 2028, which contain the following wage increases:

| | |
|---|---|
| FY26 (7-1-25 to 6-30-26) | 2% |
| FY27 (7-1-26 to 6-30-27) | 2% |
| FY28 (7-1-27 to 6-30-28) | 2% |

Effective retroactively to July 1, 2024, there will be a weekly increase of $37.50 (One Dollar ($1.00) per hour).

The City will also need to fund the retroactive pay as set forth as set under this new agreement. If an analysis of the Health & Human Services (HHS) Department's Personal Services budget determines that sufficient funds do not exist within the current year appropriation to absorb this increase, the Mayor will sponsor a supplemental transfer order to be brought before the Council.

**CAFO Certification:** This memorandum will confirm that in my professional opinion, as the Chief Administrative and Financial Officer, after an evaluation of all pertinent financial information reasonably available, that the City's financial resources and revenues are and will continue to be adequate to support the proposed expenditures and obligations involved in this City Council Order, without a detrimental impact on the continuous provision of the existing level of municipal services, in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

This certification is made in accordance with Section 2(f) of Chapter 656 of the Acts of 1989, as added by Section 1 of Chapter 468 of the Acts of 2008.

Attachment: CAFO Cert - Springfield Public Health Nurses Association (8500 : Collective Bargaining Agreement Ratification - Springfield Public

**City Council**
36 Court Street
Springfield, MA 01103

**SCHEDULED**

**ORDINANCE (ID # 8508)**

Meeting: 04/07/25 07:00 PM
Department: Law
Category: Local Law
Prepared By: Thomas Moore
Initiator: Thomas Moore
Sponsors: Mayor Sarno, President Fenton
DOC ID: 8508

# Amending Chapter 270 of the Revised Ordinances of the City of Springfield, 1986, as Amended, by Amending Chapter 270 Section 270-1

AMENDING CHAPTER 270 OF THE REVISED ORDINANCES OF THE CITY OF SPRINGFIELD, 1986, AS AMENDED, PAWNBROKER AND JUNK DEALERS, BY AMENDING CHAPTER 270 SECTION 270-1

ORD. NO. 270

1.) AN ORDINANCE TO AMEND the Code of the City of Springfield, Chapter 270, Section 270-1 thereof, entitled Pawnbrokers and Junk Dealers, by inserting the following section:

Be it ordained (enacted) by the Council of the City of Springfield, that Section 270-1 entitled "Pawnbroker's Licenses" shall be amended to delete the existing language and replace it to read as follows:

> "The Police Department may license suitable persons to carry on the business of pawnbrokers in this City, pursuant to the provisions of Chapter 140 of the General Laws. Upon application of license or renewal of all persons involved in secondhand dealer or as a pawnbroker shall submit to a CORI check of their criminal history. The Police Commissioner or his designee shall determine the suitability of the applicant and/or employees of the applicant. The fee for such license shall be $200."

This Amendment shall be effective upon its passage.

Approved as to form,

Associate City Solicitor

**HISTORY:**

**03/10/25 City Council FIRST STEP**

COUNCIL PRESIDENT FENTON WAS A CO-SPONSOR ON THIS ITEM.

COUNCILOR EDWARDS TOOK THE PODIUM AS "PRESIDENT".

THE CHANGES ARE CLEARING UP SOME ADMINISTRATIVE ISSUES. STIPULATING THE FEE CHARGED TO SPECIFY $250

COUNCILOR DAVILA ASKED FOR CLARIFICATION ON WHO HAD TO HAVE CORI CHECKS. COUNCILOR FENTON BOTH OWNERS AND EMPLOYEES HAVE TO UNDERGO CORI CHECKS

COUNCILOR DAVILA ALSO ASKED WHAT CRITERIA THE POLICE SUPERINTENDENT

COUNCILOR DELGADO ASKED WHAT THE PREVIOUS FEE WAS FOR PAWN BROKERS LICENSES AND WHY THE FEE IS NOW $250. HE ALSO ASKED HOW MANY PAWN SHOPS ARE CURRENTLY IN OPERATION.

**City Council**
36 Court Street
Springfield, MA 01103

**SCHEDULED**

**ORDINANCE (ID # 8474)**

Meeting: 04/07/25 07:00 PM
Department: City Council
Category: Local Law
Prepared By: Susan Kacoyannakis
Initiator: Susan Kacoyannakis
Sponsors: President Michael A. Fenton
DOC ID: 8474

# Amendiment to Chapter 327-5(E) Solid Waste: Containers

CHAPTER 327 SOLID WASTE:
BY ADDING A NEW SECTION WITHIN CHAPTER 327-5(E) CONTAINERS AS FOLLOWS:

All violations of this section shall be subject to a fine of $50.00 per violation. The following Departments shall have authority to issue said fine: Department of Public Works, Police Department, along with the Health Department and Code Enforcement.

# City Council

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Robert Shewchuk
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8576

# An Amendment to Chapter 327, Solid Waste (Mayor Sarno)

**Be it ordained by the City Council of the City of Springfield, in session assembled, that Chapter 327 of the Code of Ordinances of the City of Springfield, is hereby amended as follows:**

Chapter 327-1 Definitions. A. shall be amended by adding the following definition:

ACCESSORY DWELLING UNIT (ADUs)

ADUs are self-contained housing units on the same lot as a principal dwelling that have a separate entrance and are subject to size restrictions. The current law allows ADUs to be built "by right" without special approval from local zoning boards. ADUs can be basement or attic apartments, additions to existing homes, or separate cottages.

Chapter 327-1 Definitions. C. shall be deleted in its entirety and replaced with the following:

C. Any violation of this section or any part thereof shall be punishable by a fine not to exceed $250.00, except where otherwise noted.

Chapter 327-5. Automated Refuse Collection. E. Containers, (5) shall be deleted in its entirety and replaced with the following:

(5) All refuse containers shall be returned to a secure location after collection. This provision shall apply to automated containers issued by the City of Springfield, and all other refuse containers, whether serviced by the City of Springfield or a private party. With the exception of refuse containers being stored in a garage or shed, said containers shall not be stored anywhere closer to the street than the extension of any existing building line that faces any street unless the container is screened from public view by shrubbery, foliage, a fence, or a wall. Refuse containers are not to be left curbside, street side, or roadside overnight after the day of collection. All violations of this specific section shall be subject to a fine of $50.00 per violation. T he following departments shall have authority to issue said fines: the DPW, Police Department, Health and Human Services, and Code Enforcement.

Chapter 327-5. Automated Refuse Collection. G. Rubbish collection services shall be deleted in its entirety as it is a repeat of Section F. Rubbish collection services.

Chapter 327-5. Automated Refuse Collection. L. Fees, (4)(a) shall be deleted in its entirety and replaced with the following:

(4)(a) The trash fee shall be charged to customers of DPW solid waste collection and disposal services who own the property that is particularized as a recipient or user of the City services, and will not be charged to property owners who do not elect to use the City services for their properties. Parcels in the City of Springfield that include an Accessory Dwelling Unit (ADU) will be required to obtain its own separate trash service through the City of Springfield. The ADU will be billed at $90 and no discount will be provided. Parcels that include an ADU and do not obtain separate trash service, will be deemed in violation of the Solid Waste Ordinance and would be eligible to have trash services revoked.

Chapter 327-5. Automated Refuse Collection. L. Fees, (4)(b) shall be deleted in its entirety and replaced with the following:

(4)(b) The City will issue to all individuals or entities that own property and currently receives th
City services. Such owners may choose to use the City's services by paying the trash fee, or may choose not to use the services by opting out. If a property owner "opts out" of City of Springfield trash services, the property will not be eligible for trash collection, recycled materials collection, yard waste collection, and bulk collection services. The City also reserves the right to have the property owner provide the City with the name and certification of any private trash hauler to
ensure that they are properly certified by the City, and/or state for hauling services. Eligible owners who opt-out of City trash service will not be allowed to opt in at a later date.

Chapter 327-5. Automated Refuse Collection. L. Fees, (4)(j) shall be deleted in its entirety and replaced with the following:

(4)(j) The City will not provide refuse collection services to any commercial unit, government property, condominium unit or multifamily building with more than three dwelling units. ADUs
count as a dwelling unit for the purpose of calculating total dwelling units on a property.

Section 327-5. Automated Refuse Collection. L. Fees, (4)(k) shall be deleted in its entirety and replaced with the following:

(4)(k) Property owners aggrieved by the denial of a discount or any other derision concerning the trash fee may appeal such determination to 311 and the information will be reviewed by the
proper City department.

Chapter 327-20 Collection of Recycled Materials. A. Single-family Dwellings. shall be deleted in its entirety and replaced with the following:

A. Single-family dwellings up to three-family dwellings and grand fathered small businesses. For each household and small business for which the DPW provides rubbish collection services, the DPW will offer access to the City's recycling program. The DPW will make every effort to offer access to a recycling program at least as convenient as rubbish collection.

Chapter 327-20 Collection of Recycled Materials. B. Multiple-family Dwellings of Four or More Units and Fewer than 40 Units, (2) shall be deleted in its entirety.

Chapter 327-31 Responsibility for Enforcement shall be deleted in its entirety and replaced with the following:

Chapter 327-31 Responsibility for Enforcement

This entire Ordinance shall be enforced by the DPW, Police Department of the City, the Commissioner of Health and Human Services, Code Enforcement, and by the Commissioner of Housing, or their duly authorized agents.

A. Revocation of Trash Services

If it is determined by the City of Springfield Department of Public Works that a resident and/or property owner is in violation of any sections of this Ordinance or any of the other Solid Waste Ordinances, trash services may be revoked for the property. Other items that may also result in revocation of trash services include:

1. Mistreatment of City of Springfield/Solid Waste Employees
2. Bringing trash, recycling, bulk items, or yard waste from other properties and/or other communities.
3. Excessive bulk collection requests. If it is determined that the material exceed the "volume" expected in a dwelling unit (there shall be a maximum of 15 mattresses and box springs total per calendar year).
4. Extended non-payment of trash fee.
5. Transfer of bins, barrels, or containers between properties.

B. Appeals Process

Any customer whose rubbish collection and/or recycling services have been revoked shall be notified in writing by the Department of Public Works (DPW). Such customer may appeal the denial to the Law Department, in writing, within fifteen (15) days of receiving such revocation notice. The City Solicitor and/or his/her designee shall conduct an administrative review, and issue a final decision regarding the appeal within thirty (30) days upon receiving the customer's written appeal.

The City Solicitor and/or his/her designee shall advise the Director of Public Works on whether the decision to revoke said services should be sustained, modified, or reversed. The Solicitor's written decision shall be sent to the Director of Public Works and sent to the customer or his/her legal representative, within thirty (30) days after the administrative review is concluded. The decisions or orders of the Solicitor shall be final.

# City Council

**SCHEDULED**

Meeting: 04/07/25 07:00 PM
Initiator: Robert Shewchuk
Sponsors: Mayor Domenic J. Sarno
DOC ID: 8575

# An Amendment to the City of Springfield Trash Rules and Regulations (Mayor Sarno)

In accordance with the City of Springfield's governmental powers to protect the public health the City of Springfield Trash Fees Rules and Regulations shall be amended as follows:

Article IV. Rules and Regulations, B. Eligible Parcels shall be amended by adding the following subsection:

5. Parcels in the City of Springfield that include an Accessory Dwelling Unit (ADU) will be required to obtain its own separate trash service through the City of Springfield. The ADU will be billed ay ninety dollars ($90) and no discount will be provided. Parcels that include an ADU and do not obtain separate trash services, will be deemed in violation of the Solid Waste Ordinance and would be eligible to have trash services revoked.

Article IV. Rules and Regulations, G. Opt-In, e. shall be amended by deleting the entire subsection and replacing it with the following:

e. Customers who have voluntarily opted out of City trash services cannot opt-in in the future.

Article IV. Rules and Regulations, H. Opt-Out, 1. shall be amended by deleting the entire subsection and replacing it with the following:

1. An eligible owner who currently receives the trash collection and disposal services from the City can elect to opt out of the program. Eligible owners who opt out of City trash services will not be allowed to opt in at a later date.

Article VI. Appeals Process, Subsection A. and Subsection B. shall be deleted in its entirety and replaced with the following:

A. Any customer whose rubbish collection and/or recycling services have been revoked shall be notified in writing by the Department of Public Works (DPW). Such customer may appeal the denial to the Law Department in writing within fifteen (15) days of receiving such revocation notice. The City Solicitor and/or his/her designee shall conduct an administrative review, and issue a final decision regarding the appeal within thirty (30) days upon receiving customer's written appeal.

B. The City Solicitor and/or his/her designee shall advise the Director of Public Works on whether the decision to revoke said services should be sustained, modified, or reversed. The Solicitor's decision shall be sent to the Director of Public Works and sent to the customer or his/her legal representative. The decisions or orders of the Solicitor shall be final.

All other provisions of the City of Springfield Trash Fees Rules and Regulations not amended herein shall remain the same.

**City Council**
36 Court Street
Springfield, MA 01103

**SCHEDULED**

**RESOLUTION (ID # 8524)**

Meeting: 04/07/25 07:00 PM
Department: City Council
Category: Council Request
Prepared By: Sean Young
Initiator: Sean Young
Sponsors: Ward 5 City Councilor Lavar Click-Bruce
DOC ID: 8524

# Increase Cost of Gas And Electricity

WHEREAS, Springfield residents have recently experienced significant increases in the cost of gas and electricity delivered by Eversource, which have placed a financial strain on individuals and families in our community; and

WHEREAS, these rising utility costs have become a pressing concern for the well-being and economic stability of residents, many of whom already face financial challenges due to inflation and the ongoing economic impacts of the COVID-19 pandemic; and

WHEREAS, the City of Springfield is committed to ensuring the financial health and quality of life for all its residents, and it is essential that action be taken to address these rising costs, which are placing undue burden on households; and

WHEREAS, the Massachusetts Department of Public Utilities ("DPU") holds oversight and regulatory authority over Eversource, the utility provider that supplies gas and electricity to residents in Springfield; and

WHEREAS, the Massachusetts State Legislature is empowered to enact laws and policies that can help protect consumers from excessive and unjustified utility rate increases; and

WHEREAS, the City of Springfield respectfully requests an investigation into the factors contributing to the recent surge in gas and electricity costs and whether these increases are justified or represent potential issues with utility practices or market inefficiencies; and

NOW, THEREFORE BE IT RESOLVED, that the Springfield City Council, call upon the Massachusetts State Legislature and the Department of Public Utilities to initiate a comprehensive investigation into the recent increases in gas and electricity rates that are significantly impacting the residents of Springfield; and

BE IT FURTHER RESOLVED, that the investigation should assess the fairness of these increases, the causes of the escalation, and the potential for legislative or regulatory actions to mitigate the financial impact on residents; and

BE IT FURTHER RESOLVED, that the Springfield City Council urges the legislature and the Department of Public Utilities to consider the possibility of providing more relief or rate adjustments for Springfield residents facing financial hardship due to these increased utility costs; and

BE IT FURTHER RESOLVED, that a copy of this resolution be sent to the Governor of Massachusetts, the Massachusetts State Legislature, and the Massachusetts Department of Public Utilities for their immediate review and consideration.