

**ORDER FOR  
HIGH DENSITY POLYETHYLENE GEOTHERMAL AMBIENT LOOP PIPE**

By the City Council of the City of Framingham, Massachusetts notice having been given and a public hearing held, as provided by law, **IT IS HEREBY ORDERED:**

That permission be and hereby granted to **NSTAR Gas Company (d/b/a EVERSOURCE Energy) F.W.O #NTGT0N2Y** locations for and permission to install one (1) new 8 inch diameter High- Density Polyethylene (HDPE) Geothermal Ambient Loop Pipe, one (1) ancillary 8-inch HDPE loop pipe and associated valves, fixtures, and appurtenances to be owned and used by your petitioner, along and across the following public ways: Normandy Road, Berkshire Road, Prindiville Avenue, Hampshire Road, Lindberg Road, and Concord Street in support of new geothermal ambient loop pipe, as requested by Patricia A. Quinn, Supervisor T&D Rights and Survey on **March 13, 2023**.

**Rose Kennedy Lane – (1) Extending southerly from Normandy Road along West side for a for a distance of approx. 200± feet, (2) shift W-E a distance of approx. 30± feet, then (3) along East side for a for a distance of approximately 390± feet.**

Plan Ref. PROJECT NO. 253460-273904 (Issued For Construction),

FILE NAME: **C011STPL, C-11** Dated: **2/23/2023**

Install one (1) new 8” diameter High-Density Polyethylene (HDPE) Geothermal Ambient Loop Pipe, five (5) 2-3” service connections, manifold and valve vault, geothermal bore field and all associated valves, fixtures, and appurtenances necessary or useful in connection therewith

All construction under this order shall be in accordance with the conditions set forth in a letter dated April 24, 2023 from the Framingham Department of Public Works as follows:

1. The applicant (or applicant’s designee) shall be registered as a utility within the Dig-Safe system and will be responsible to comply with all applicable laws and regulations pertaining to utility location and marking, including MGLc.82, sec.40 and 220 CMR 99. The applicant (or applicant’s designee) shall fulfill the definition of “Company” as set forth in the aforementioned law and regulations.
2. The Geothermal pipe shall be colored black and labeled appropriately as Geothermal piping on four sides evenly spaced around and through-out the length of the pipe
3. The proposed 8-inch HDPE pipe shall be installed a minimum three feet away from City utilities.
4. The DPW requests notification prior to the start of work to verify final location in the field.
5. Pavement restoration: all trenches shall be appropriately backfilled and compacted with minimum 4-inches of binder (6-inches on Concord Street) or match existing pavement thickness if greater. The trenches shall settle minimum 120-days or a winter season. After the settlement period, the trenches shall be restored as follows:
  - a. Berkshire Road, Prindiville Avenue, Hampshire Road, and Lindbergh Road: shall be milled and paved the trench width plus minimum 2-feet past the trench boundaries.
  - b. For the section of Concord Street in the vicinity of the intersection of Hartford Street, the restoration will be determined at the time of the Street Opening Permit and may include full width

restoration depending on the coordination with the planned intersection improvements.

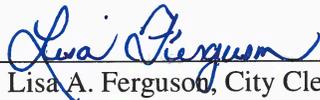
c. The remaining length of Concord Street shall be milled for the entire width of the vehicular travel lane in which the trench is located.

d. Normandy Road: the restoration will include full-width milling and paving for the section between Arsenal Road and the project limits. For the section between Arsenal Road and Concord Street, the restoration shall include trench mill and pave to the edge of the road provided that the pipe is installed at the location included in the plans. If the pipe is moved significantly, the restoration may include full-width mill and pave.

e. Rose Kennedy Lane: Eversource Gas shall accelerate their planned gas pipe replacement scheduled for next year and conduct that work this year. Eversource shall then mill and pave the entire width of the roadway to account for the impact for both utilities. For the cul-de-sac where the Geothermal well field will be located, Eversource shall coordinate with the City for a comprehensive reconstruction of this area.

6. All work shall conform to the City of Framingham construction standards.

I hereby certify that the foregoing order was adopted at a meeting of the City Council of the City of Framingham, Massachusetts held on the 25th day of April 2023.

  
\_\_\_\_\_  
Lisa A. Ferguson, City Clerk

We hereby declare that on April 25, 2023 at 7:00 PM at 150 Concord Street, Framingham, Massachusetts a public hearing was held on the petition of **NSTAR Gas (EVERSOURCE) F.W.O #NTGT0N2Y** for permission to construct, and a location for, such High Density Polyethylene Geothermal Ambient Loop Pipe and associated valves, fixtures, and appurtenances therein, described in the order herewith recorded, and that we 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 ways or parts of ways upon which the Companies are permitted to erect poles, wires, cables, fixtures and connections under said order.

It is noted that, due to the COVID-19 pandemic, this meeting and public hearing was held with City Council members present either in person or via Zoom. The meeting is available for viewing on the City of Framingham website under Government Channel.

And that thereupon said order was duly adopted.

City Council  
City of Framingham, Massachusetts

**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 Framingham City Council of the City of Framingham, Massachusetts on the 25<sup>th</sup> day of April, 2023 and recorded with the records of location orders of said City, Book 17, Page 23-8. This certified copy is made under the provisions of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:



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Lisa A. Ferguson, City Clerk



# CITY OF FRAMINGHAM

DEPARTMENT OF PUBLIC WORKS | OPERATIONS

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OPERATIONS CENTER  
100 Western Avenue  
Framingham, MA 01702

508-532-6010  
engineering@framinghamma.gov  
www.framinghamma.gov

April 24, 2023

City Council  
City of Framingham  
Memorial Building  
150 Concord Street  
Framingham, MA 01702

Re: Grant of Location Request Eversource F.W.O. #NTGT0N2Y – Normandy Road, Berkshire Road, Prindiville Avenue, Hampshire Road, Lindbergh Road, Rose Kennedy Lane and Concord Street.

Dear City Council,

The Department of Public Works (DPW) is in receipt of a request from NSTAR Gas Company d/b/a Eversource Energy to install one (1) new 8-inch diameter High-Density Polyethylene (HDPE) Geothermal Ambient Loop Pipe, one (1) ancillary 8-inch diameter (HDPE) loop pipe and associated valves, fixtures, and appurtenances to be owned and used by your petitioner, along and across the following public ways: Normandy Road, Berkshire Road, Prindiville Avenue, Hampshire Road, Lindbergh Road, and Concord Street in support of new geothermal ambient loop pipe.

We have reviewed this Grant of Location request submitted to the City Council and recommend approval subject to the following conditions:

1. The applicant (or applicant's designee) shall be registered as a utility within the Dig-Safe system and will be responsible to comply with all applicable laws and regulations pertaining to utility location and marking, including MGL c.82, sec.40 and 220 CMR 99. The applicant (or applicant's designee) shall fulfill the definition of "Company" as set forth in the aforementioned law and regulations.
2. The Geothermal pipe shall be colored black and labeled appropriately as Geothermal piping on four sides evenly spaced around and throughout the length of the pipe.
3. The proposed 8-inch HDPE pipe shall be installed a minimum three feet away from City utilities.
4. The DPW requests notification prior to the start of work to verify final location in the field.

5. Pavement restoration: all trenches shall be appropriately backfilled and compacted with minimum 4-inches of binder (6-inches on Concord Street) or match existing pavement thickness if greater. The trenches shall settle minimum 120-days or a winter season. After the settlement period, the trenches shall be restored as follows:
- a. Berkshire Road, Prindiville Avenue, Hampshire Road, and Lindbergh Road: shall be milled and paved the trench width plus minimum 2-feet past the trench boundaries.
  - b. For the section of Concord Street in the vicinity of the intersection of Hartford Street, the restoration will be determined at the time of the Street Opening Permit and may include full-width restoration depending on the coordination with the planned intersection improvements.
  - c. The remaining length of Concord Street shall be milled for the entire width of the vehicular travel lane in which the trench is located.
  - d. Normandy Road: the restoration will include full-width milling and paving for the section between Arsenal Road and the project limits. For the section between Arsenal Road and Concord Street, the restoration shall include trench mill and pave to the edge of the road provided that the pipe is installed at the location included in the plans. If the pipe is moved significantly, the restoration may include full-width mill and pave.
  - e. Rose Kennedy Lane: Eversource Gas shall accelerate their planned gas pipe replacement scheduled for next year and conduct that work this year. Eversource shall then mill and pave the entire width of the roadway to account for the impact for both utilities. For the cul-de-sac where the Geothermal well field will be located, Eversource shall coordinate with the City for a comprehensive reconstruction of this area.
6. All work shall conform to the City of Framingham construction standards.

Please contact me at (508) 532-6010 if you have any questions.

Yours very truly,



Eric V. Johnson, P.E.  
City Engineer

cc: W. Sedewitz, Chief Engineer  
R. Lewis, DPW Director  
S. Luz, Sustainability Coordinator

K. Ronconi, DPW Highway and Sanitation  
T. Nguyen, DPW Project Manager



247 Station Drive  
Westwood, Massachusetts 02090

March 13, 2023

City of Framingham, City Council  
Memorial Building  
150 Concord Street  
Framingham, MA 01704

RE: **Rose Kennedy Lane** – Grant of Location (GOL) Petition  
Eversource Networked Geothermal Pilot – City of Framingham, MA (“City”)  
F.W.O.# NTGT0N2Y

Hearing Required

Dear Members of the City Council:

The enclosed petition and plan are being presented by NSTAR GAS COMPANY d/b/a EVERSOURCE ENERGY for the purpose of obtaining a Grant of Location (GOL) to install one (1) new 8” diameter High-Density Polyethylene (HDPE) Geothermal Ambient Loop Pipe, five (5) 2-3” service connections, manifold and valve vault, geothermal borefield, and associated valves, fixtures, and appurtenances necessary or useful in connection therewith, pursuant to provisions of Massachusetts General Laws and City policy.

This work is necessary for installation and operation of a networked geothermal system providing clean and sustainable heating and cooling for customers within the City, and to demonstrate the effectiveness and benefits of operating a networked geothermal energy distribution system, a portion of which will be installed at **Rose Kennedy Lane**.

If you have any further questions, please contact James Blais at (781) 441-8732 or Eric Bosworth at (508) 836-7278.

Your prompt attention to this matter would be greatly appreciated.

Very truly yours,

*Patricia A. Quinn*

Patricia A. Quinn  
Supervisor, T&D Rights and Survey

PAQ  
enclosures  
Attachments

PETITION OF NSTAR GAS COMPANY, dba EVERSOURCE ENERGY FOR  
GEOTHERMAL ENERGY LOOP

March 10, 2023

To City Council of the City of Framingham, Massachusetts:

Respectfully represent **NSTAR GAS COMPANY, dba Eversource Energy, a Massachusetts** corporation having a place of business at 247 Station Drive, Westwood, MA 02090, its successors and assigns, or any licensee from it (hereinafter the "Petitioner"), subject to Massachusetts General Laws (Ter.Ed.), that they desire to locate, construct and maintain one (1) new 8" diameter High-Density Polyethylene (HDPE) Geothermal Ambient Loop Pipe, five (5) 2-3" service connections, manifold and valve vault, geothermal borefield and all associated valves, fixtures, and appurtenances necessary or useful in connection therewith along and across the public way or ways hereinafter specified.

WHEREFORE, your Petitioner prays that after due notice and hearing as provided by law the **City Council** may by Order grant your Petitioner joint or identical locations for and permission for erection, construction, operation and maintenance of one (1) new 8" diameter HDPE Geothermal Ambient Loop Pipe, five (5) 2-3" service connections, manifold and valve vault and geothermal borefield, to be owned and used by Petitioner, and for such other valves, fixtures and appurtenances as may be necessary or useful in connection therewith to sustain said geothermal network loop to be located, substantially as shown on the plans entitled "EVERSOURCE NETWORKED GEOTHERMAL DEMONSTRATION PILOT PROJECT, GEOTHERMAL LOOP PIPING PLANS VI & VII BERKSHIRE ROAD AND ROSE KENNEDY LANE", SHEET NO. C-11 , prepared by **CDM Smith**, dated **February 23, 2023**, and filed herewith, upon along and across the following public way or ways of said town:

**Rose Kennedy Lane – (1) Extending southerly from Normandy Road along West side for a for a distance of approx. 200± feet, (2) shift W-E a distance of approx. 30± feet, then (3) along East side for a for a distance of approximately 390± feet.**

Plan Ref. PROJECT NO. 253460-273904 (Issued For Construction),  
FILE NAME: C011STPL, C-11 Dated: 2/23/2023

Install one (1) new 8" diameter High-Density Polyethylene (HDPE) Geothermal Ambient Loop Pipe, five (5) 2-3" service connections, manifold and valve vault, geothermal borefield and all associated valves, fixtures, and appurtenances necessary or useful in connection therewith

Hearing Required

Also, for permission to excavate, lay and maintain underground laterals, pipes, cables, and wires in the above or intersecting public ways for the purpose of making connections with such associated, pipe, borefield, equipment, facilities and adjacent buildings as Petitioner may desire. Your Petitioner agrees to reserve space for sidewalks and passageway belonging to the municipality and used exclusively for municipal purposes.

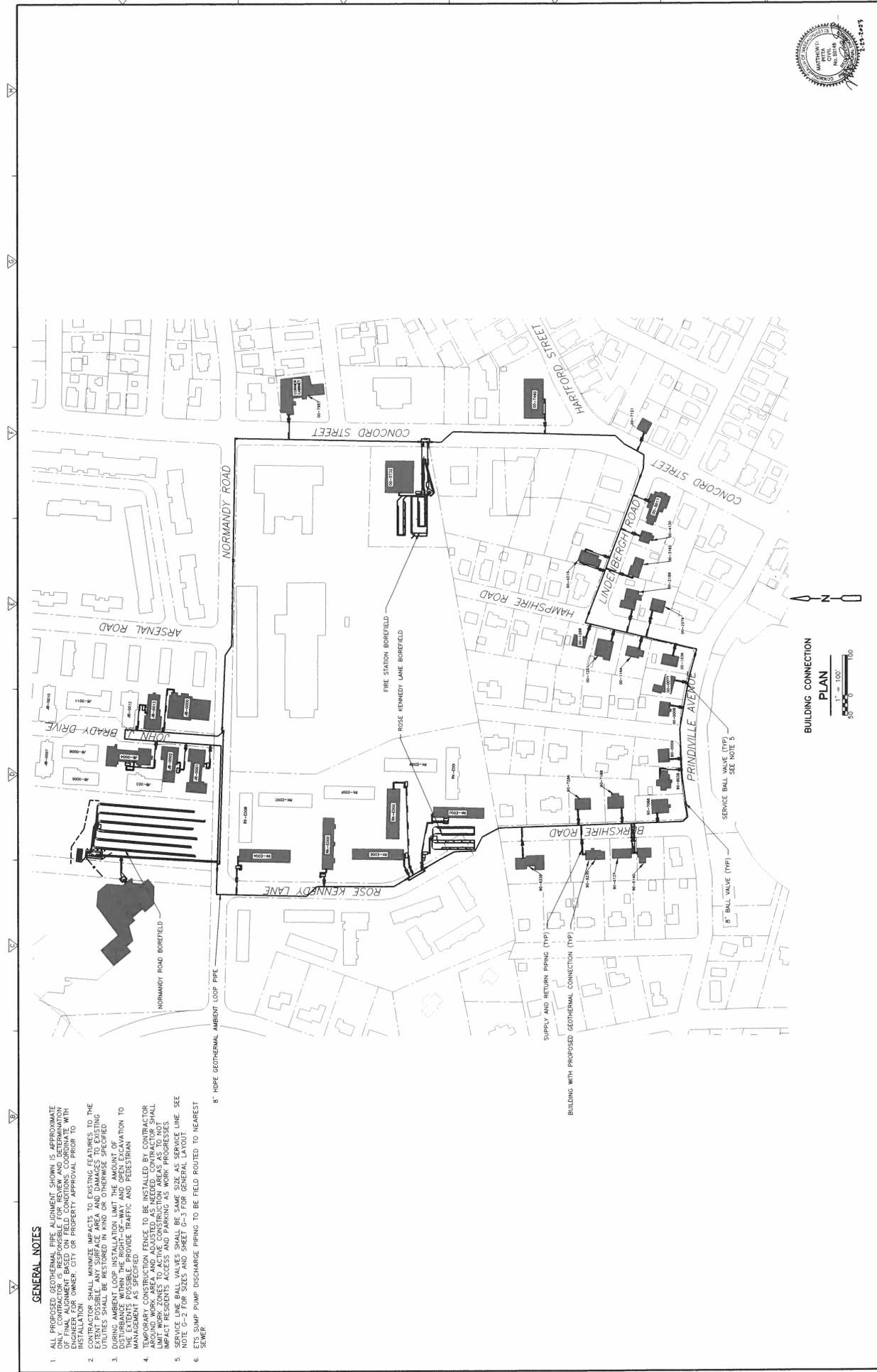
**NSTAR GAS COMPANY, dba EVERSOURCE ENERGY**

By: *Patricia A. Quinn*

Patricia A. Quinn  
Supervisor, T&D Rights and Survey

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2023

City of FRAMINGHAM, Massachusetts  
Received and filed \_\_\_\_\_ 2023



**GENERAL NOTES**

1. ALL PROPOSED GEOTHERMAL LOOP PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF BOSTON'S GEOTHERMAL DESIGN AND INSTALLATION MANUAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO INSTALLATION. OWNER, CITY OR PROPERTY APPROVAL PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL MINIMIZE IMPACTS TO EXISTING FEATURES TO THE MAXIMUM EXTENT POSSIBLE. ALL EXCAVATION SHALL BE PROTECTED AND RESTORED TO ORIGINAL OR BETTER CONDITION. UTILITIES SHALL BE RESTORED IN KIND OR OTHERWISE SPECIFIED.
3. DURING AMBIENT LOOP INSTALLATION LIMIT THE AMOUNT OF DISTURBANCE WITHIN THE RIGHT-OF-WAY AND OPEN EXCAVATION TO THE MINIMUM NECESSARY. PROVIDE TRAFFIC AND PEDESTRIAN MANAGEMENT AS SPECIFIED.
4. TEMPORARY CONSTRUCTION FENCE TO BE INSTALLED BY CONTRACTOR TO BE MAINTAINED THROUGHOUT CONSTRUCTION. FENCE SHALL LIMIT WORK ZONES TO ACTIVE CONSTRUCTION AREAS AS TO NOT IMPACT RESIDENTS ACCESS AND PARKING AS WORK PROGRESSES.
5. SERVICE LINE BALL VALVES SHALL BE SPACED AS SHOWN ON SHEET. SEE GENERAL NOTES FOR FURTHER INFORMATION.
6. ETS PUMP DISCHARGE PIPING TO BE FIELD ROUTED TO NEAREST SEWER.

8" HDPE GEOTHERMAL LOOP PIPE

BUILDING WITH PROPOSED GEOTHERMAL CONNECTION (TYP)

SUPPLY AND RETURN PIPING (TYP)

8" BALL VALVE (TYP)

SERVICE BALL VALVE (TYP) SEE NOTE 5

NORMANDY ROAD BOREFIELD

ROSE KENNEDY LANE BOREFIELD

FIRE STATION BOREFIELD

NORMANDY ROAD

CONCORD STREET

HARTFORD STREET

ARSENAL ROAD

BRADY DRIVE

ROSE KENNEDY LANE

HAMPSHIRE ROAD

LINDEL BERGH ROAD

BRKSHIRE ROAD

PRINDVILLE AVENUE

1" = 100'

BUILDING CONNECTION PLAN

EVERSOURCE

NETWORKED GEOTHERMAL DEMONSTRATION PILOT PROJECT

BUILDING CONNECTION PLAN

ISSUED FOR CONSTRUCTION

PROJECT NO. 25-146-17-0001

FILE NAME: 25-146-17-0001

SHEET NO. C-6

DATE: FEBRUARY 2023

REVISIONS:

RECORDED BY: D. FLAHERTY

DRAWN BY: C. LADD

CHECKED BY: D. FLAHERTY

APPROVED BY: M. PITTA

DATE: FEBRUARY 2023

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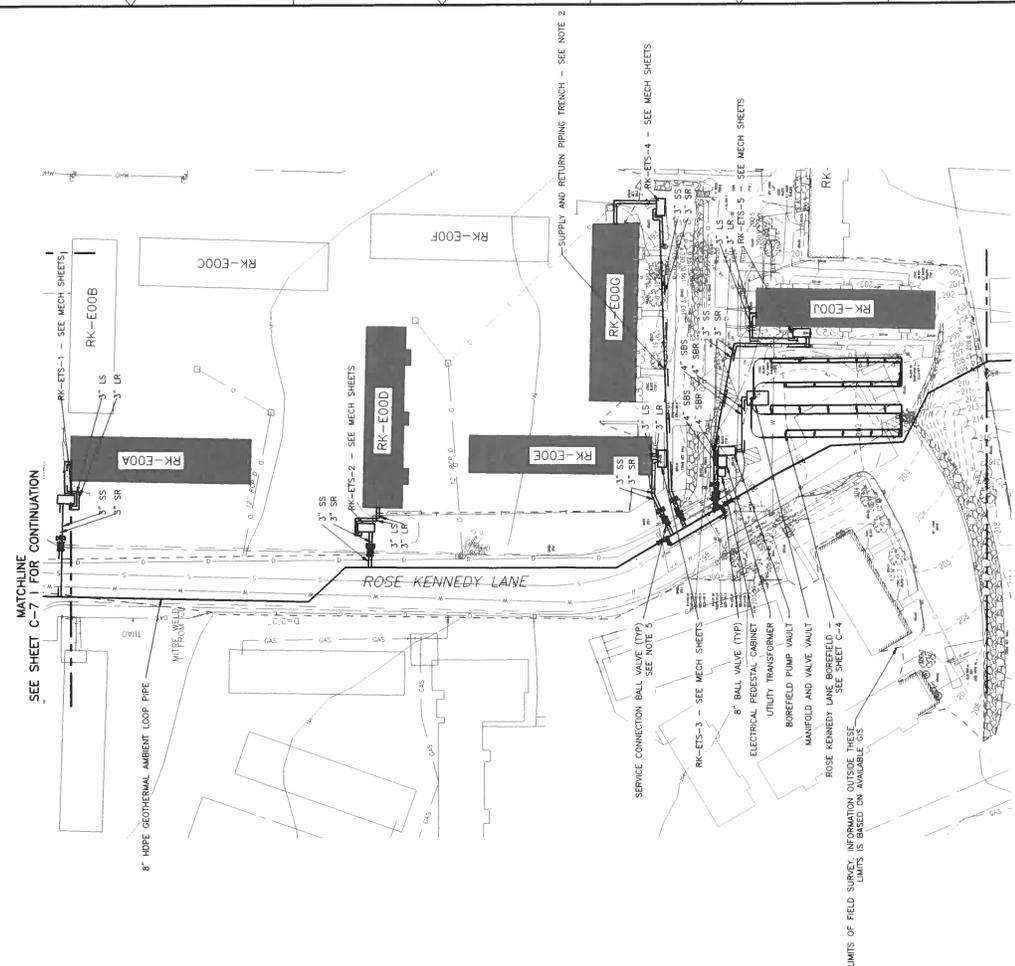
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**GENERAL NOTES**

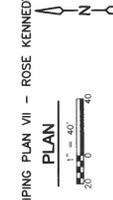
1. ALL PROPOSED WORK SHALL BE SHOWN IN APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR REVIEW AND DETERMINATION OF FINAL ALIGNMENT BASED ON FIELD CONDITIONS. COORDINATE WITH INSTALLATION OWNER, CITY OR PROPERTY APPROVAL PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL MINIMIZE IMPACTS TO EXISTING FEATURES TO THE MAXIMUM EXTENT POSSIBLE. ALL EXISTING UTILITIES SHALL BE RESTORED TO ORIGINAL OR OTHERWISE SPECIFIED CONDITIONS.
3. DURING AMBIENT LOOP INSTALLATION LIMIT THE AMOUNT OF DISTURBANCE WITHIN THE RIGHT-OF-WAY AND OPEN EXCAVATION TO NEAREST ADJACENT PROPERTY. PROVIDE TRAFFIC AND PEDESTRIAN MANAGEMENT AS SPECIFIED.
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5. SERVICE LINE BALL VALVES SHALL BE SAME SIZE AS SERVICE LINE. SEE NOTE 5.
6. 8" HDPE GEOTHERMAL LOOP PIPING TO BE FIELD ROUTED TO NEAREST SEWER.



GEOTHERMAL LOOP PIPING PLAN VI - BERKSHIRE ROAD



GEOTHERMAL LOOP PIPING PLAN VII - ROSE KENNEDY LANE



DESIGNED BY:	C. PETERSON
CHECKED BY:	C. LAKE
DRAWN BY:	D. FLAHERTY
APPROVED BY:	M. BITTA
DATE:	FEBRUARY, 2023

NO.	DATE	DRWN	CHKD	REVISIONS

**EVERSOURCE**  
**NETWORKED GEOTHERMAL DEMONSTRATION**  
**PILOT PROJECT**

**GEOTHERMAL LOOP PIPING PLANS VI & VII**  
**BERKSHIRE ROAD AND ROSE KENNEDY LANE**

PROJECT NO. 25346-2300  
 FILE NAME: C01157L  
 SHEET NO. C-11

ISSUED FOR CONSTRUCTION