

**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**.

**Prindiville Avenue – Extending easterly from Berkshire Road along North side for a distance of approximately 475± feet to Hampshire Road**

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

FILE NAME: **C010STPL, C-10** Dated: **2/23/2023**

Install one (1) 8” diameter HDPE Geothermal Ambient Loop Pipe, one (1) 3” service connection, three (3) 1 ½” service connections 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 23-7. 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.





247 Station Drive  
Westwood, Massachusetts 02090

March 13, 2023

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

RE: **Prindiville Avenue** – 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, one (1) 3” service connection, three (3) 1 ½” service connections 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 **Prindiville Avenue**.

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

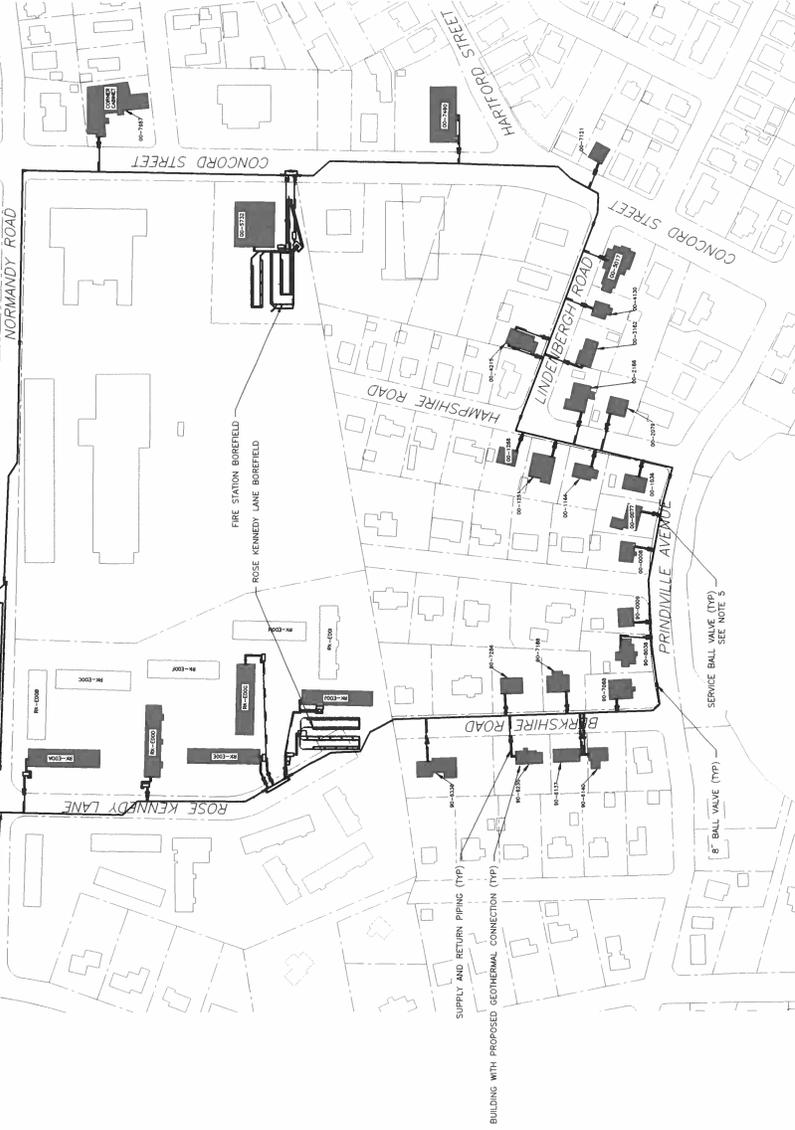
PAQ  
enclosures  
Attachments



**GENERAL NOTES**

1. ALL PROPOSED GEOTHERMAL PIPE ALIGNMENT SHOWN IS APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR REVIEW AND DETERMINATION OF PIPE ALIGNMENT BASED ON FIELD CONDITIONS. COORDINATE WITH INSTALLATION OWNER, CITY OR PROPERTY APPROVAL AGENCY TO VERIFY ALIGNMENT.
2. CONTRACTOR SHALL MINIMIZE IMPACTS TO EXISTING FEATURES TO THE MAXIMUM EXTENT POSSIBLE. ALL EXISTING UTILITIES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. THE EXTENTS POSSIBLE, PROVIDE TRAFFIC AND PEDESTRIAN MANAGEMENT AS SPECIFIED.
3. DURING AMBIENT LOOP INSTALLATION, LIMIT THE AMOUNT OF EXCAVATION TO THE MINIMUM NECESSARY TO INSTALL THE LOOP. CONTRACTOR SHALL LIMIT WORK ZONES TO ACTIVE CONSTRUCTION AREAS AS TO NOT IMPACT RESIDENTS ACCESS AND PARKING AS MUCH AS POSSIBLE.
4. TEMPORARY CONSTRUCTION ACCESS SHALL BE INSTALLED BY CONTRACTOR TO MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES. CONTRACTOR SHALL LIMIT WORK ZONES TO ACTIVE CONSTRUCTION AREAS AS TO NOT IMPACT RESIDENTS ACCESS AND PARKING AS MUCH AS POSSIBLE.
5. NOTE C-2 FOR SIZES AND SHEET C-3 FOR GENERAL LAYOUT. SEE ETS SUMP PUMP DISCHARGE PIPING TO BE FIELD ROUTED TO NEAREST SEWER.

8" HDPE GEOTHERMAL LOOP PIPE



PROJECT NO. 23-060-27204  
 FILE NAME: C0082PL  
 SHEET NO. C-6

**BUILDING CONNECTION PLAN**

**NETWORKED GEOTHERMAL DEMONSTRATION PILOT PROJECT**

EVERSOURCE



DESIGNED BY: G. FLAHERTY  
 CHECKED BY: C. PETERSON  
 SHEET C-6 OF 8  
 DATE: 02/03/2023  
 APPROVED BY: M. PITT  
 DATE: FEBRUARY 2023

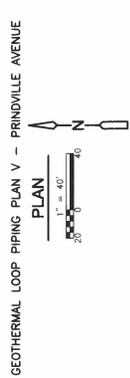
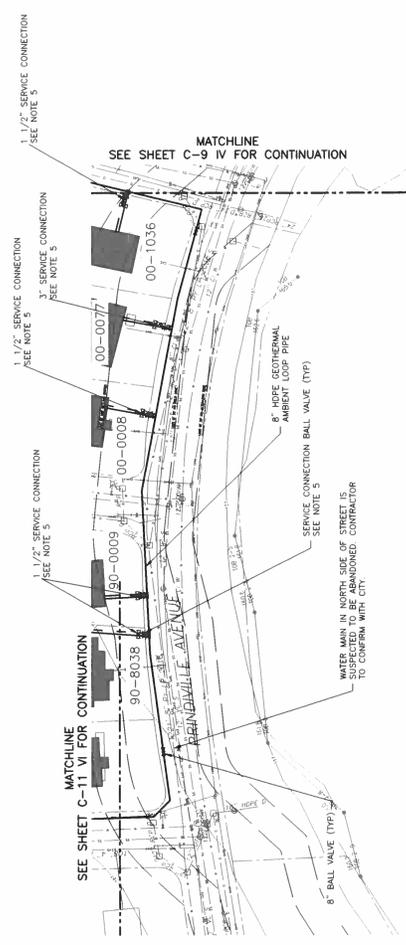
REVISIONS

REV	NO	DATE	BY	CHKD

ISSUED FOR CONSTRUCTION

**GENERAL NOTES**

1. ALL PROPOSED GEOTHERMAL PIPE ALIGNMENT SHOWN IS APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR REVIEW AND DETERMINATION OF EXISTING UTILITIES AND CONDITIONS. CONTRACTOR SHALL VERIFY WITH ENGINEER FOR OWNER, CITY OR PROPERTY APPROVAL PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL MINIMIZE IMPACTS TO EXISTING FEATURES TO THE EXTENT POSSIBLE. ANY SURFACE AREA AND DAMAGES TO EXISTING UTILITIES SHALL BE RESTORED IN KIND OR OTHERWISE SPECIFIED.
3. DURING AMBIENT LOOP INSTALLATION LIMIT THE AMOUNT OF EXCAVATION TO THE EXTENT POSSIBLE. PROVIDE TRAFFIC AND PEDESTRIAN MANAGEMENT AS SPECIFIED.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ADJUST AS NEEDED. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ADJUST AS NEEDED. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ADJUST AS NEEDED.
5. SERVICE LINE BALL VALVES SHALL BE SAME SIZE AS SERVICE LINE. SEE NOTE C-2 FOR SIZES AND SHEET C-3 FOR GENERAL LAYOUT.



GEOTHERMAL LOOP PIPING PLAN V - PRINDVILLE AVENUE



PROJECT NO. 25160-27304	PROJECT NAME: GEOTHERMAL LOOP PIPING PLAN V PRINDVILLE AVENUE	PROJECT NAME: NETWORKED GEOTHERMAL DEMONSTRATION PILOT PROJECT	PROJECT NAME: GEOTHERMAL LOOP PIPING PLAN V PRINDVILLE AVENUE
FILE NAME: C01057PL	SHEET NO. C-10	SHEET NO. C-10	SHEET NO. C-10
DESIGNED BY: C. PETERSON	DESIGNED BY: C. PETERSON	DESIGNED BY: C. PETERSON	DESIGNED BY: C. PETERSON
CHECKED BY: S. LANGE	CHECKED BY: S. LANGE	CHECKED BY: S. LANGE	CHECKED BY: S. LANGE
DRAWN BY: D. FLANERTY	DRAWN BY: D. FLANERTY	DRAWN BY: D. FLANERTY	DRAWN BY: D. FLANERTY
DATE: FEBRUARY 2023	DATE: FEBRUARY 2023	DATE: FEBRUARY 2023	DATE: FEBRUARY 2023
REV. NO.	DATE	BY	REMARKS

ISSUED FOR CONSTRUCTION

