

**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, Lindbergh 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**.

Concord Street – (1) Extending southerly from Normandy Road along West side for a for a distance of approximately 500± feet, (2) shift W-E a distance of approx. 45± feet, then (3) along East side for distance of approximately 590± feet, then (4) shift E-W @ Lindbergh Road a distance of approx. 65± feet

Plan Ref. PROJECT NO. 253460-273904 (Issued For Construction),
FILE NAME: C008STPL, C-8 Dated: 2/23/2023

Install one (1) 8” diameter HDPE Geothermal Ambient Loop Pipe, one (1) 1 ¼” service connection, two (2) 1 ½” service connections, and associated valves.

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.

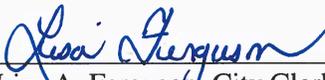
And that thereupon said order was duly adopted.

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 25th day of April, 2023 and recorded with the records of location orders of said City, Book 17, Page 23-3. This certified copy is made under the provisions of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:



Lisa A. Ferguson, City Clerk



CITY OF FRAMINGHAM

DEPARTMENT OF PUBLIC WORKS | OPERATIONS

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: **Concord Street** – 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) 1 ¼” service connection, two (2) 1 ½” service connection 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 **Concord Street**.

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 13, 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, one (1) 1 1/4" service connection, two (2) 1 1/2" service connections and all associated ball 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, one (1) 1 1/4" service connection and two (2) 1 1/2" service connections 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 II & III CONCORD STREET", SHEET NO. C-8 , prepared by CDM Smith, dated February 23, 2023, and filed herewith, upon along and across the following public way or ways of said town:

Concord Street – (1) Extending southerly from Normandy Road along West side for a for a distance of approximately 500± feet, (2) shift W-E a distance of approx. 45± feet, then (3) along East side for distance of approximately 590± feet, then (4) shift E-W @ Lindbergh Road a distance of approx. 65± feet

Plan Ref. PROJECT NO. 253460-273904 (Issued For Construction), FILE NAME: C008STPL, C-8 Dated: 2/23/2023

Install one (1) 8" diameter HDPE Geothermal Ambient Loop Pipe, one (1) 1 1/4" service connection, two (2) 1 1/2" service connections, and associated valves

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, equipment, valves, poles, 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

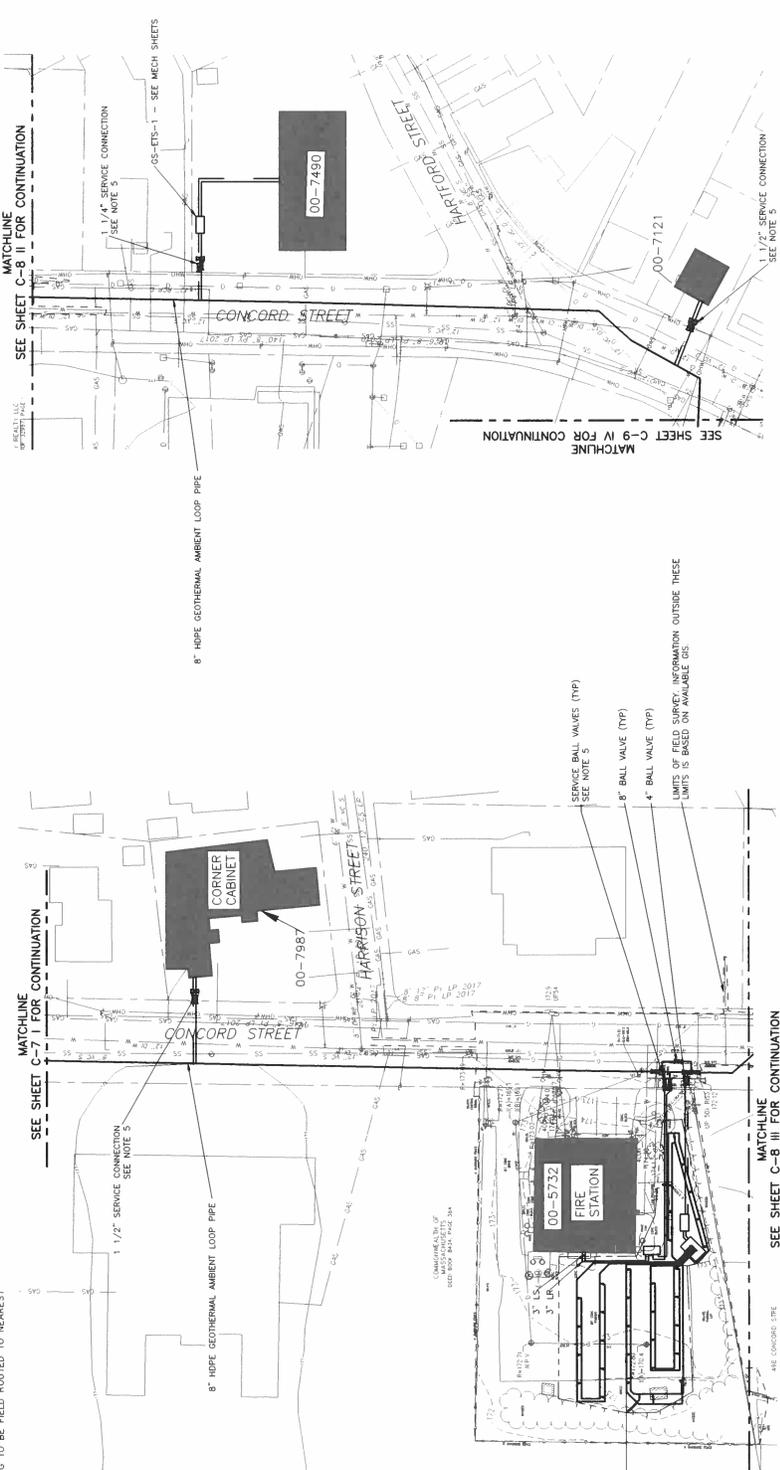
By: Patricia A. Quinn Patricia A. Quinn Supervisor, T&D Rights and Survey

Dated this _____ day of _____ 2023

City of FRAMINGHAM, Massachusetts Received and filed _____ 2023

GENERAL NOTES

1. ALL PROPOSED GEOTHERMAL PIPE ALIGNMENT SHOWN IS APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR REVIEW AND DETERMINATION OF EXISTING UTILITIES AND CONDITIONS PRIOR TO CONSTRUCTION WITH INSTALLATION. 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.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND DISTURBANCE WITHIN THE RIGHT-OF-WAY AND OPEN EXCAVATION TO THE EXTENTS POSSIBLE. PROVIDE TRAFFIC AND PEDESTRIAN ACCESS TO ALL ADJACENT PROPERTIES AND DISTURBANCE WITHIN THE RIGHT-OF-WAY AND OPEN EXCAVATION TO THE EXTENTS POSSIBLE.
3. TEMPORARY CONSTRUCTION FENCE TO BE INSTALLED BY CONTRACTOR AROUND WORK AREA AND ADJUSTED AS NEEDED. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND DISTURBANCE WITHIN THE RIGHT-OF-WAY AND OPEN EXCAVATION TO THE EXTENTS POSSIBLE.
4. SERVICE LINE BALL VALVES SHALL BE SAME SIZE SERVICE LINE. SEE SHEET G-2 FOR SIZES AND SHEET G-3 GENERAL CONFIGURATION.
5. ETS SLUMP PUMP DISCHARGE PIPING TO BE FIELD ROUTED TO NEAREST SEWER.



GEOTHERMAL LOOP PIPING PLAN II - CONCORD STREET
PLAN
1" = 40'
0 20 40

GEOTHERMAL LOOP PIPING PLAN III - CONCORD STREET
PLAN
1" = 40'
0 20 40



PROJECT NO. 25346-23024	FILE NAME: C00827L	SHEET NO. C-8
NETWORKED GEOTHERMAL DEMONSTRATION PILOT PROJECT		
EVSOURCE		
GEOTHERMAL LOOP PIPING PLANS II & III CONCORD STREET		
DESIGNED BY: C. PETERSON	CHECKED BY: S. LAVINE	DATE: FEBRUARY, 2023
DRAWN BY: M. BITTA	APPROVED BY: M. BITTA	
DATE: FEBRUARY, 2023		
REV. NO.	DATE	DESCRIPTION



ISSUED FOR CONSTRUCTION