

Gas Main Replacement Project 1-111 Boardman Street and 131-135 Ashley Street East Boston, Massachusetts

REQUEST FOR DETERMINATION OF APPLICABILITY

National Grid 40 Sylvan Road Waltham, Massachusetts

March 2022

Tighe&Bond





WO# 1350340 N-5068-171 March 2, 2022

Boston Conservation Commission 1 City Hall Square Room 709 Boston, Massachusetts 02201

Re: Request for Determination of Applicability
Gas Main Replacement Project
1-111 Boardman Street and 131-135 Ashley Street, East Boston,
Massachusetts

Dear Executive Director Moreno and Members of the Boston Conservation Commission:

On behalf of the Boston Gas Company, Tighe & Bond respectfully submits this Request for Determination of Applicability (RDA) for a proposed gas main replacement project within portions of Boardman Street and Ashley Street in East Boston, Massachusetts.

This RDA is being filed because the proposed work will occur within Land Subject to Coastal Storm Flowage (LSCSF). This area is regulated under the Massachusetts Wetlands Protection Act (WPA, M.G.L. c. 131 § 40) and the City of Boston Wetlands Protection Ordinance (Chapter VII) and their implementing regulations. The Commission previously determined that the changes in the proposed replacement gas main diameter rendered the work ineligible for exempt maintenance status. All proposed work will be within previously paved areas with no anticipated impacts to nearby wetland resource areas.

Tighe & Bond respectfully requests that the Conservation Commission issue a Negative Determination confirming that the proposed work does not require the filing of a Notice of Intent.

This RDA application includes the following items:

- Attachment A WPA Form 1 (certified digital signatures) and Filling Fee
- Attachment B Figures and Site Plans
- Attachment C Abutter Notification Information
- Attachment D National Grid Best Management Practices

The following text discusses the wetland resource areas, proposed activities, and proposed protective measures.

Wetland Resource Areas

Wetland resource areas were reviewed by a Tighe & Bond wetland scientist using publicly available data, including the Massachusetts Department of Environmental Protection (MassDEP) Online Map Viewer. Please refer to Figure 3 in Attachment B for the locations of the resource areas and their respective buffers.

Land Subject to Coastal Storm Flowage

The Federal Emergency Management Agency (FEMA) flood map (Panel No. 25025C0019J, revised March 16, 2016) was consulted to evaluate the presence of jurisdictional Land Subject to Coastal Storm Flowage (LSCSF) within the project area. The entire project area falls within areas subject to flooding and/or inundation by a 100-year flood (Zone AE, Base Flood Elevation of 10 feet). Therefore, the project area is regulated as LSCSF. LSCSF is associated with the



Chelsea Creek and Boston Harbor, located approximately 1,100 feet northwest and approximately 1,300 feet southeast, respectively, of the project area.

Rare Species

The project area does not fall within *Priority Habitats of Rare Species* or *Estimated Habitats of Rare Wildlife* based on a review of the Massachusetts Natural Heritage and Endangered Species Program (NHESP) Atlas (15th edition; August 1, 2021) and NHESP data available on MassGIS online (August 2021), as shown on Figure 2.

Proposed Activities

The existing gas main within Boardman Street is comprised of the following:

- 695 linear feet (If) of 12-inch diameter low pressure (LP) cast iron (CI) (1923) piping
- 680 If of 4-inch diameter LP CI (1905) piping
- 20 If of 4-, 6-, and 8-inch diameter LP plastic (2016) piping

The existing main within Ashley Street is comprised of 120 lf of 6-inch LP coated steel (1963). Gas main replacement activities are proposed in two areas, listed below, and a breakdown of the proposed activities is provided in the enclosed Table 1. A total of 1,515 linear feet (If) of gas main is proposed over these two areas. The locations of the project areas are depicted on Figures 1 through 3 and in the Project Drawings provided in Attachment B.

Project Areas:

Boardman Street

Approximately 1,395 If of 12-inch diameter, LP plastic in Boardman Street from the existing 12-inch diameter, LP plastic main at the intersection of Saratoga Street and Ford Street to the existing 8-inch diameter, LP plastic main at 111 Boardman Street.

Ashley Street

Approximately 120 If of 8-inch diameter LP plastic in Ashley Street from the intersection of Ashley Street and Boardman Street to the existing 6-inch diameter LP coated steel (1972) main at 135 Ashley Street

As noted above, all of the proposed work within both Boardman Street and Ashley Street is within the mapped extent of LSCSF.

Work Methodology

In general, the gas main replacement activities will entail the excavation of an approximately two-foot-wide trench for safe installation. The trench bottom will be excavated and graded such that the pipe will be supported for its entire length on undisturbed bottom at a depth of approximately three feet below surface grade. The trench will be excavated within the paved roadway footprints of Boardman Street and Ashley Street, with the precise locations of the gas lines to be determined in the field so that existing utilities can be avoided. The project involves relaying the existing gas mains and installation of new gas mains, as described above. The existing gas mains will be abandoned in place. Upon installation of the replacement mains, the trenches will be backfilled and restored in kind. Refer to the Project Drawings in Attachment B.

Equipment scheduled for use during the proposed construction and restoration of the trench include excavator and dump truck. Excavated material will be placed in the dump truck for removal to an off-site National Grid processing facility. Suitable soils and bedding materials are utilized in accordance with current gas pipe standards and the City of Boston requirements.

Work Within Resource Areas

The proposed work will result in approximately 3,036 square feet (sf) of temporary impacts to LSCSF. The areas where the work is proposed consist entirely of existing paved roadways. The proposed work will not change the general characteristics of the area, as the entire project is contained within previously developed areas and will be subsurface. The site will be restored to pre-existing elevations.



Protective Measures

Work will be conducted in accordance with National Grid's EG-303NE Best Management Practices document. Please refer to Attachment D for further details. During the gas line construction, erosion control measures (e.g., straw bales, silt fence, straw wattles, catch basin silt sack inserts) will be installed as deemed necessary.

Climate Resiliency

The City of Boston has established an Ordinance Protecting Local Wetlands and Promoting Climate Change Adaptation in the City of Boston (Boston Wetlands Ordinance; City of Boston Code, Ordinances, Chapter 7-1.4) regarding activities within their jurisdiction as well as administrative procedures relative to proposed projects. Of the current regulations, the following are pertinent to the proposed activities. The Ordinance directs the Boston Conservation Commission to consider future climate impacts like rising sea levels in applications for construction and is stricter than statewide standards.

According to the Climate Ready Boston Mapper, underground structures for the project work area (located within Boardman Street and Ashley Street) are within the 1% and 10% Annual Coastal Flood Risk areas for the 2050s and 2070s. Portions of both streets are within near-term stormwater flooding areas.

The underground infrastructure is designed in consideration of groundwater. Conduit ends are sealed watertight with a manufacturer-recommended material compatible with the gas main. Additionally, the pipes are manufactured to withstand extreme environments inclusive of water penetration. In this manner, the below ground infrastructure is designed and capable of withstanding potential climate change and future climate impacts.

Application Requirements

As required under the City of Boston Wetlands Protection Ordinance, abutters to the project area have been notified via Certificate of Mailing, in accordance with abutter notification requirements. Copies of the abutter notification forms (English, Spanish with translation certification), the list of abutters, and Affidavit of Service (with certified digital signature) are enclosed in Attachment C.

As the project will be conducted entirely within public roadway rights-of-way (ROW) in existing Boston Gas Company easements, property owner notification is not warranted.

Summary

We look forward to having the opportunity to discuss this project with the City of Boston Conservation Commission during the public hearing scheduled for March 16, 2022. We anticipate these materials are sufficient for the Commission to issue a Negative Determination, confirming that a Notice of Intent (NOI) will not be required for the proposed work to proceed. Should you have any questions regarding this application or require any additional information, please do not hesitate to contact me at (413) 250-2424 or via email at MPCoady@tighebond.com.

Sincerely,

TIGHE & BOND, INC.

mur. C

Melissa P. Coady Project Manager

Enclosures

Copy: MassDEP NERO

Jaime Walker, National Grid

Table 1 Boston Gas Company Gas Main Replacement East Boston, Massachusetts

Street	Gas Main Maintenance (linear feet)	Work within LSCSF
1-111 Boardman Street	1,395 lf	Yes
131-135 Ashley Street	120 lf	Yes

ATTACHMENT A

WPA FORM 1

FILING FEE



Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

Boston City/Town

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return



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1.	Applicant:		
	Boston Gas Company (c/o Jaime Walker)	jaime.walker	@nationalgrid.com
	Name	E-Mail Address	
	40 Sylvan Road		
	Mailing Address	B.4.A	00454
	Waltham City/Town	MA State	<u>02451</u> Zip Code
	(978) 551-1156	State	Zip Gode
	Phone Number	Fax Number (if	applicable)
2.	Representative (if any):		
	Tighe & Bond, Inc.		
	Firm	MDO	Cababaad aan
	Melissa Coady Contact Name	E-Mail Address	tighebond.com
	53 Southampton Road	L-Iviali Address	
	Mailing Address		
	Westfield	MA	01085
	City/Town	State	Zip Code
	(413) 572-3224		
	Phone Number	Fax Number (if	applicable)
<u> </u>	. Determinations		
О.	. Determinations		
1.		wing determination(s). Check any that apply:
	Conservation Commission		
	 a. whether the area depicted on plan(s) and/or map(jurisdiction of the Wetlands Protection Act. 	s) referenced below i	s an area subject to
	b. whether the boundaries of resource area(s) depict below are accurately delineated.	cted on plan(s) and/or	map(s) referenced
	c. whether the work depicted on plan(s) referenced b	elow is subject to the	Wetlands Protection Act.
		•	
	d. whether the area and/or work depicted on plan(s) of any municipal wetlands ordinance or bylaw of:	referenced below is s	subject to the jurisdiction
	Boston		
	Name of Municipality		
	 e. whether the following scope of alternatives is addepicted on referenced plan(s). 	equate for work in the	e Riverfront Area as

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Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

Boston City/Town

WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Project Description

1.	a.	Project Location (use maps and plans to	identify the location of the area sul	oject to this request):						
	Во	ardman Street and Ashley Street	East Boston							
		eet Address	City/Town							
		t applicable, roadway right-of-way								
	Ass	Assessors Map/Plat Number Parcel/Lot Number								
	b.	b. Area Description (use additional paper, if necessary):								
		Boardman Street and Ashley Street are paved two-way roads that serve residential, commercial, and municipal properties.								
	-									
	c.	Plan and/or Map Reference(s):								
	Fig	jure 1-Site Location		February 2022						
	Title			Date						
	Fig	jure 2- Priority Resources		February 2022						
	Title			Date						
	Fig	jure 3 - Site Plan		February 2022						
	Title	9		Date						
2.	a.	Work Description (use additional paper ar	nd/or provide plan(s) of work, if ne	cessary):						
Str		ston Gas Company proposes to replace ar Please refer to the attached cover letter fo		nan Street and Ashley						
	-									
	-									
	-									

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Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

Boston City/Town

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Project Description (cont.)

	b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).
	310 CMR 10.02(2)(a)(2) - Activities conducted to maintain, repair or replace, but not substantially change or enlarge an existing and lawfully located structure or facility used in the service of the public and used to provide electric, gas
3.	a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.
	☐ Single family house on a lot recorded on or before 8/1/96
	☐ Single family house on a lot recorded after 8/1/96
	Expansion of an existing structure on a lot recorded after 8/1/96
	☐ Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
	☐ Public project where funds were appropriated prior to 8/7/96
	Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
	Residential subdivision; institutional, industrial, or commercial project
	☐ Municipal project
	☐ District, county, state, or federal government project
	Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.
	b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

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Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Boston	
City/Town	

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

D. Signatures and Submittal Requirements

Name and address of the property owner:

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

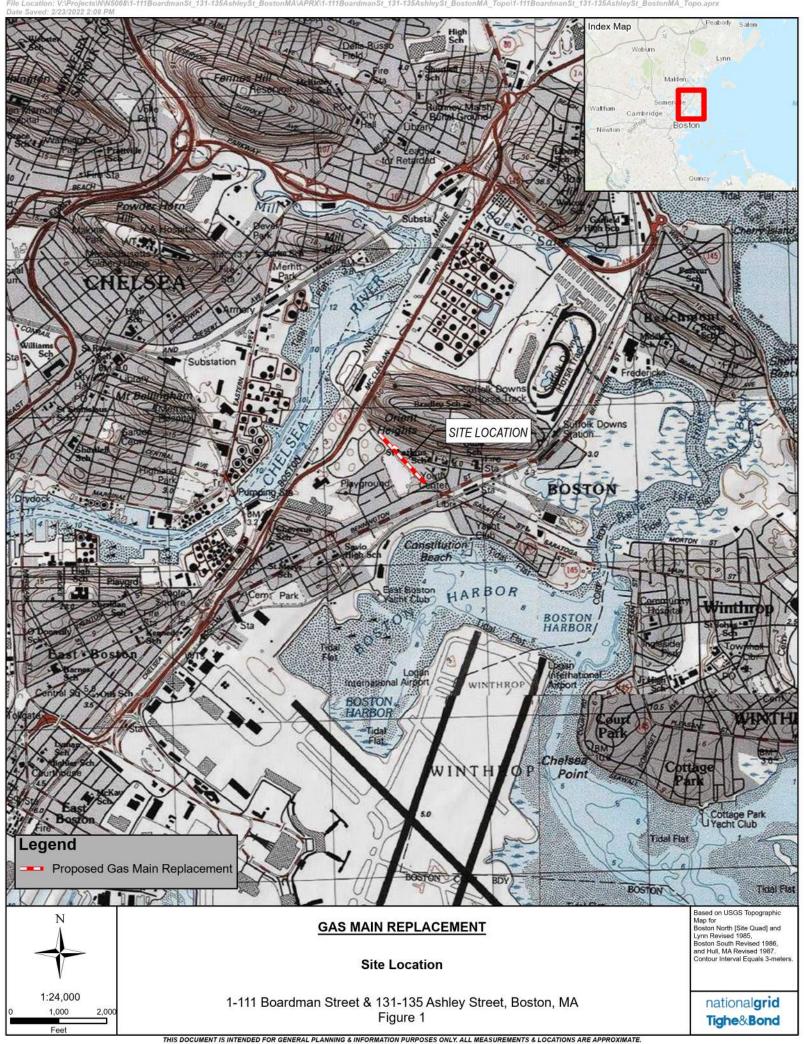
Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Boston Gas Company (c/o Jaime Walker) Name 40 Sylvan Road Mailing Address Waltham City/Town MA 02451 Zip Code State Signatures: I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations. Malker 2/25/2022 Signature of Applicant Date 2/25/2022 Signature of Representative (if any) Date

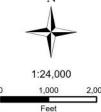
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ATTACHMENT B

FIGURES AND SITE PLANS





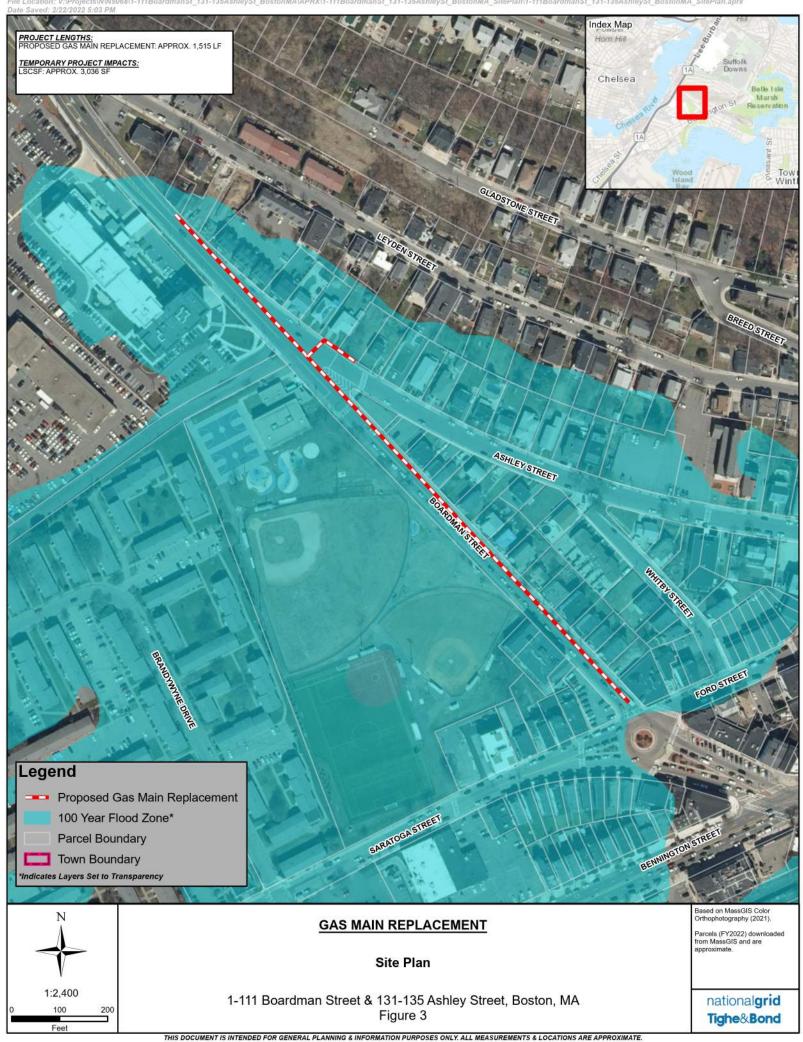


Priority Resources

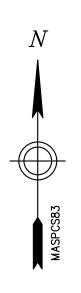
1-111 Boardman Street & 131-135 Ashley Street, Boston, MA Figure 2

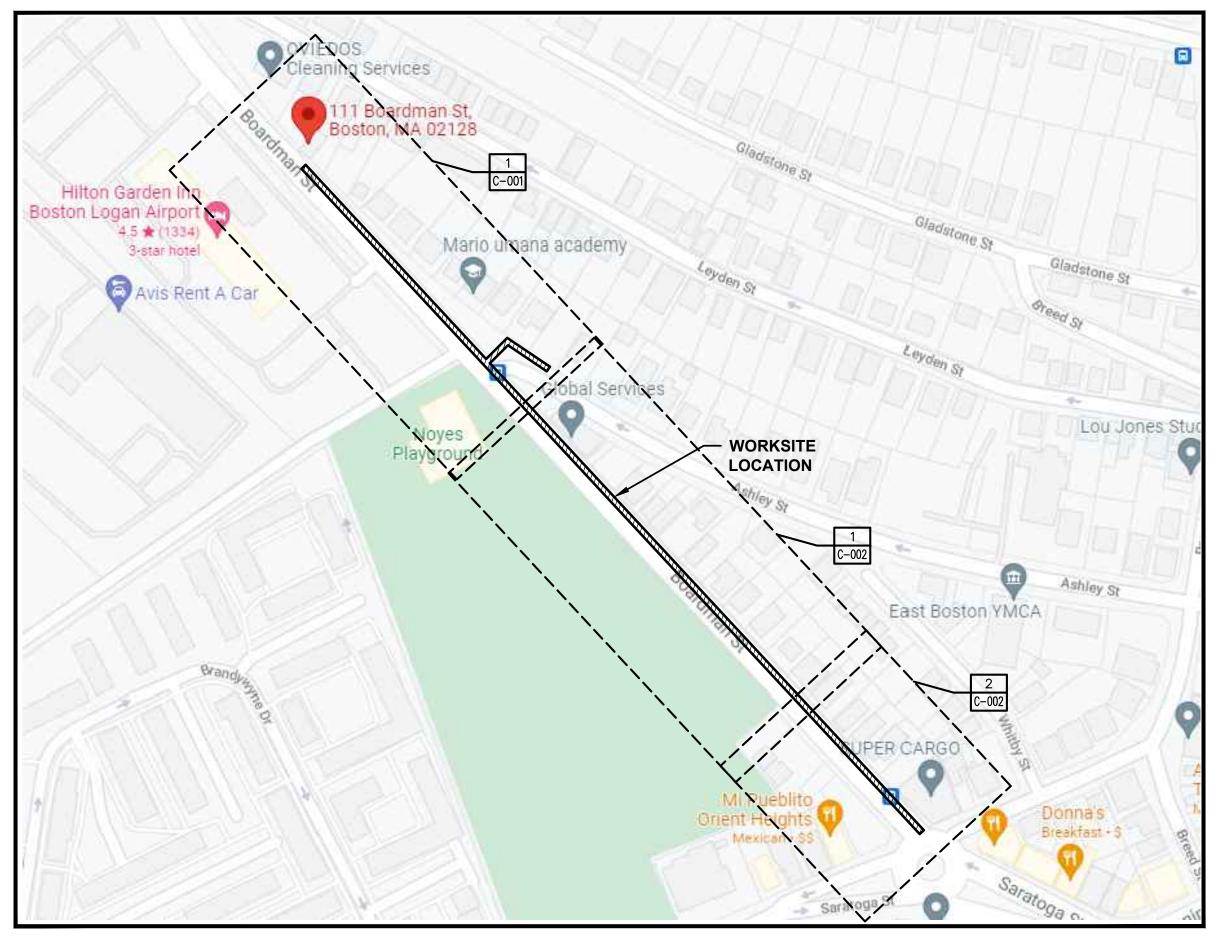
Based on MassGIS Color Orthophotography (2019), Data source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology Data valid as of February 2022.

nationalgrid Tighe&Bond



PROPOSED GAS MAIN REPLACEMENT APPROXIMATELY 120' OF 8" & 1,395' OF 12" PLASTIC - LOW PRESSURE 1-111 BOARDMAN ST & 131-135 ASHLEY ST, BOSTON, MA W.O. NO. 1350340



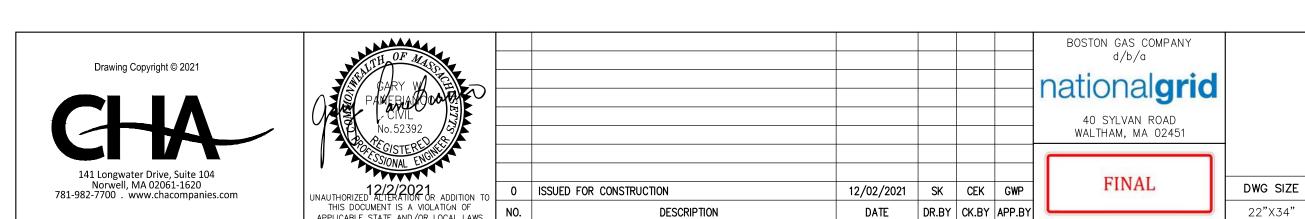


	INDEX	OF SHEETS
PAGE	NAME	TITLE
1	DPL-EB0-067813-1042 G-001	COVER SHEET
2	DPL-EB0-067813-1042 G-002	CONSTRUCTION NOTES AND BOM
3	DPL-EB0-067813-1042 C-001	PROPOSED INSTALLATION PLAN
4	DPL-EB0-067813-1042 C-002	PROPOSED INSTALLATION PLAN
5	DPL-EB0-067813-1042 C-201	PROPOSED TIE-IN DETAILS
6	DPL-EB0-067813-1042 C-301	NATIONAL GRID STANDARD CONSTRUCTION DETAILS
7	DPL-EB0-067813-1042 C-302	NATIONAL GRID STANDARD CONSTRUCTION DETAILS
8	DPL-EB0-067813-1042 C-303	NATIONAL GRID STANDARD CONSTRUCTION DETAILS
9	DPL-EB0-067813-1042 C-304	NATIONAL GRID STANDARD CONSTRUCTION DETAILS









PROPOSED GAS MAIN REPLACEMENT
1-111 BOARDMAN ST & 131-135 ASHLEY ST
BOSTON, MA

COVER SHEET

DDI FRO 06

12/02/2021 DISTRIBUTION

DESIGNER

S.KHAFAJI

ENGINEER

C.KOLOD

DATE:

DRAWING NO. SHEET NO.

DPL—EBO—067813—1042 G—001

ASSET I.D. W.O. NO.:

DISTRIBUTION 1350340

PAGE 1 **OF** 9

AS PART OF THE CIMNRPL<10 PROGRAM, LPP INTEGRITY MANAGEMENT RECOMMENDS THE RELAY OF: -APRX 695 FEET OF 12 INCH, LP CAST IRON (1923), APRX 680 FEET OF 4 INCH, LP CAST IRON (1905) AND APRX 20 FEET OF 4,6, AND 8 INCH, LP PLASTIC (2016) WITH APRX 1395

FEET OF 12 INCH, LP PLASTIC IN BOARDMAN ST FROM THE EXST 12 INCH, LP PLASTIC IN THE INTERSECTION OF SARATOGA ST AND FORD ST TO THE EXST 8 INCH, LP PLASTIC AT #111 BOARDMAN ST

-APRX 120 FEET OF 6 INCH, LP COATED STEEL (1963) DEBOOOO2 WITH APRX 120 FEET OF 8 INCH , LP PLASTIC IN ASHLEY ST FROM BOARDMAN ST TO THE EXST 6 INCH, LP COATED STEEL (1972) - MEBO0011. -BILLING: 3 MAIN CONNECTIONS, 0 CUT & CAPS

GENERAL

- . NO FIELD CHANGES SHALL BE MADE TO THIS DESIGN WITHOUT APPROVAL FROM THE ASSIGNED
- NATIONAL GRID ENGINEER
- ENGINEER: OLIVIA NYE PHONE: (339) 999-1300
- EMAIL: OLIVIÁ.NYE@NATIONALGRID.COM
- NEW MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL TRENCH DETAIL INCLUDED IN THESE DRAWINGS, UNLESS NOTED OTHERWISE.
- A. 36 INCHES OF COVER FROM FINAL GRADE WHERE PRACTICAL
- B. STATE HIGHWAY MINIMUM COVER: 36 INCHES
- DISTRIBUTION MAIN MINIMUM COVER: 24 INCHES D. SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM
- CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE
- SERVICES SHALL BE INSTALLED WITH 24 INCHES OF COVER
- A. MINIMUM IN PUBLIC ROW: 18 INCHES
- MINIMUM IN PRIVATE PROPERTY: 12 INCHES
- C. SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM
- D. CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE
- 4. REFER TO CNST-6030 FOR SHALLOW MAINS. PRIOR TO INSTALLING GAS MAINS WITH LESS THAN 24 INCHES OF COVER, COMPLETE REQUEST FOR WAIVER FORM AND CONTACT GAS PIPELINE SAFETY & COMPLIANCE FOR APPROVAL:
- A. JENNIFER GILLIS (617) 594—5157 (MA EXCLUDING CAPE AND WEBSTER)
- B. LIEN GAUTHIER (617) 438-9069 (MA EXCLUDING CAPE AND WEBSTER)
- C. IF A PROPOSED TOP TÉE CONNECTION RESULTS IN A SHALLOW MAIN THAT CANNOT MEET THE WAIVER CRITERIA, A FULL TEE CONNECTION IS AN ACCEPTABLE ALTERNATIVE. A SPHERICAL TEE IS ONLY ACCEPTABLE WITH APPROVAL FROM NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING. 5. ALL MAINS SHOULD BE INSTALLED WITH CLEARANCE OF 12 INCHES FROM OTHER FACILITIES.
- A. DISTRIBUTION MINIMUM CLEARANCE: 6 INCHES
 - B. APPROPRIATE PROTECTIVE MEASURES SHALL BE USED TO PROTECT THE GAS FACILITY IF MINIMUMS CANNOT BE ATTAINED. APPROVAL IS REQUIRED BY GAS SYSTEMS ENGINEERING.
- 6. THE PIPE ALIGNMENT IS SHOWN FOR REFERENCE ONLY AS APPROXIMATELY 3 FEET FROM THE EXISTING MAIN (BASED ON AVAILABLE RECORD INFORMATION). THE ACTUAL ROUTE AND ALL VERTICAL AND HORIZONTAL OFFSETS ARE TO BE FIELD ROUTED WITHIN THE PUBLIC RIGHT-OF-WAY BASED ON THE ACTUAL LOCATION OF EXISTING UTILITIES. ADDITIONAL FITTINGS NOT SHOWN WILL BE REQUIRED. A. ELBOWS SHOWN ARE ASSUMED TO BE 45 DEGREES IN MOST APPLICATIONS. 90 DEGREE ELBOWS MAY BE NEEDED BASED ON FIELD CONDITIONS.
- VALVES DEPICTED IN THE DESIGN ARE THE MINIMUM REQUIRED FOR SECTIONALIZING, ISOLATION, CRITICAL VALVES, AND/OR TO ACCOMMODATE TIE-INS. ADDITIONAL FULL PORT VALVES MAY BE ADDED TO ACCOMMODATE CONSTRUCTION
- A. VALVES FOR BRANCHES AT INTERSECTIONS SHOULD BE FIELD LOCATED JUST OUTSIDE OF THE INTERSECTION WHERE EASILY ACCESSIBLE, PRIOR TO THE FIRST SERVICE.
- ELECTROFUSION COUPLINGS MAY BE INTERCHANGED WITH BUTT FUSION WHERE APPLICABLE 9. TIE-IN LOCATIONS MAY VARY UP TO 100 FEET OF THE PROPOSED LOCATION TO ACCOMMODATE CONSTRUCTION, EXCEPT FOR WHEN THE FOLLOWING CONDITIONS APPLY
 - A. REGULATOR STATION IS WITHIN THE SCOPE OF THE JOB OR WITHIN 200 FEET OF THE TIE-IN
- B. CHANGE TO THE NUMBER OF CONNECTIONS (ADDITIONAL ADDED FROM AN INTERSECTION OR OTHERWISE)
- C. MATERIAL/SIZE CHANGE AT NEW LOCATION
- 10. NOT ALL BYPASSES, GAUGES, PURGES AND OTHER MISCELLANEOUS FITTINGS ARE SHOWN. CONSTRUCTION SHALL INSTALL THESE FITTINGS AS NEEDED IN ACCORDANCE WITH THE APPROVED SOP.
- 11. WHEN CONNECTING NEW "DEAD" MAIN TO NEW "DEAD" MAIN: AS LONG AS THE CONNECTION BRANCH SIZE SHOWN IN THE DRAWINGS CAN BE ACHIEVED, THE FOLLOWING CONNECTION TYPES ARE ACCEPTED AND INTERCHANGEABLE. A. INLINE TEE
 - B. PLASTIC HIGH VOLUME TAPPING TEE (2" BRANCH SIZE OR LESS)
- C. PLASTIC BRANCH SADDLE (WITH MAIN CUTTER SIZE SHOWN IN NATIONAL GRID POLICIES) D. STEEL THREE-WAY TEE (WITH MAIN CUTTER SIZE SHOWN IN NATIONAL GRID POLICIES)
- 12. THE LIVE MAIN CONNECTION DETAIL SHOWN IN THE DRAWINGS SHALL BE FOLLOWED. ANY CHANGES TO THE TIE IN CONNECTION TYPE SHALL BE APPROVED BY THE NATIONAL GRID ENGINEER PRIOR TO CONSTRUCTION. 13. ALL CUSTOMER SERVICES WITHIN THE SCOPE OF MAIN TO BE ABANDONED SHALL BE TRANSFERRED OR
- RELAYED BY THE CONTRACTOR TO THE NEW MAIN PRIOR TO ABANDONMENT. WHEN RELAYING A LOWER PRESSURE MAIN WITH A HIGHER PRESSURE MAIN, ALL SERVICES SHALL BE RELAYED OR INSERTED.
- 14. DRESSER STYLE COMPRESSION FITTINGS ON PLASTIC MAY BE USED AS AN ALTERNATIVE TO ELECTROFUSION FITTINGS ON PLASTIC TO PLASTIC PIPE CONNECTIONS PROVIDED THAT THE COUPLINGS ARE:
- MADE FOR PLASTIC TO PLASTIC APPLICATIONS.
- PULL-OFF RESISTANT.

ELECTROFUSION CAPS AS NEEDED.

- iii) INSTALLED WITH AN APPROPRIATELY SIZED ANODE ATTACHED. THE SAME STYLE COUPLING MAY BE USED AS A PERMANENT LINE CAP PROVIDED THAT THE CORRECT FACTORY END PLATE IS UTILIZED AS AN ALTERNATIVE TO A FUSED END PLASTIC END CAP.
- iv) DRESSER STYLE CAPS AND PERMASERT CAPS ARE INTERCHANGEABLE WITH FUSION CAPS, PROVIDED CATHODIC PROTECTION REQUIREMENTS ARE USED FOR METALLIC BOLT STYLE FITTINGS REMAINING IN
- 15. FOR HOST STEEL MAIN CONNECTIONS: IN LIEU OF THE USE OF TDW 3-WAY TEE FITTINGS. ESPECIALLY WHERE INSUFFICIENT COVERAGE PROHIBITS THEIR USE, A MUELLER WELD ON BOTTOM-OUT FITTING OR A TDW SPHERICAL 3-WAY TEE CAN BE USED FOR STOP OFF/TAKE OFF APPLICATIONS. A TDW SHORTSTOPP FITTING CAN ALSO BE USED AS AN ALTERNATIVE, BUT REQUIRES ANALYSIS FOR BYPASS ETC. NATIONAL GRID SYSTEM PLANNING SHALL REVIEW AND APPROVE THE USE OF AN ALTERNATIVE FITTING. A PULL OUT RESISTANT COUPLING MUST BE USED FOR THE CONNECTION OF THE NEW MAIN TO THE HOST MAIN.
- 16. FOR HOST CAST IRON MAIN CONNECTIONS: IN LIEU OF THE USE OF TDW 3-WAY TEE FITTINGS, WELDED ON A DRESSER STYLE 50A REPAIR SLEEVE, ESPECIALLY WHERE INSUFFICIENT COVERAGE PROHIBITS THEIR USE, AN INLINE TEE CAN BE SUBSTITUTED IN CONJUNCTION WITH EITHER A TDW SHORTSTOPP FITTING WELDED ON TOP OF A DRESSER STYLE 50A REPAIR SLEEVE, TDW SHORTSLEEVES, OR A MUELLER MECHANICAL STOP OFF FITTING CAN BE USED BUT REQUIRES ANALYSIS FOR BYPASS ETC. NATIONAL GRID GAS SYSTEM PLANNING SHALL REVIEW AND APPROVE THE USE OF AN ALTERNATIVE FITTING. A PULL OUT RESISTANT COUPLING MUST BE USED FOR THE CONNECTION OF THE NEW MAIN TO THE HOST MAIN.
- 17. ON NEW PLASTIC TO EXISTING STEEL CONNECTIONS, IN-LINE TIE-INS USING A STOP-OFF FITTING AND A PULLOUT RESISTANT DRESSER STYLE COUPLING IS INTERCHANGEABLE WITH USING A TDW 3-WAY TEE, AN ELBOW AND A PLASTIC TO STEEL TRANSITION FITTING ON A HIGH PRESSURE DISTRIBUTION MAIN OR SERVICE.
- 18. STEEL MUELLER ANSI 150 CLASS FITTINGS ARE INTERCHANGEABLE WITH TDW FITTINGS OF 150 POUND CLASS PROVIDED THAT THEY ARE THE SAME SIZE AND CAN PROVIDE THE SAME FUNCTION IN A SAFE MANNER IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS.
- 19. PLASTIC INLINE TEES AND BRANCH SADDLES ARE INTERCHANGEABLE PROVIDED THE SADDLE IS THE EQUIVALENT SIZE OF THE TEE INCLUDING REDUCERS AND TAPPED OUT TO THE MAXIMUM SIZE ALLOWED BY THE MANUFACTURER.
- 20. FOR A 2" PLASTIC TIE-IN TO AN EXISTING 2" PLASTIC PIPE, EITHER A 2" HVT OR A STRAIGHT BUTT CONNECTION ARE ACCEPTABLE ALTERNATIVES PROVIDED THERE ARE NO ONE WAY FEED ISSUES. 21. BUTT FUSE PLASTIC CAPS, WITH OR WITHOUT ELECTROFUSION COUPLINGS, MAY BE USED IN LIEU OF

- **CODES & STANDARDS**
- WORK SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL CODES IN ADDITION TO NATIONAL GRID GAS POLICIES AND WORK METHODS. WHERE ANY CONFLICTS OF CODES, STANDARDS, AND REGULATIONS MAY EXIST, THE MORE STRINGENT CODE, STANDARD, OR REGULATION SHALL APPLY.
- 2. ALL REFERENCES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT REVISION AVAILABLE AT THE TIME OF CONSTRUCTION
- FEDERAL & STATE
 - A. TITLE 49: PART 192 TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS
 - 220 CMR: DEPARTMENT OF PUBLIC UTILITIES
 - 100.00 113.00: MASSACHUSETTS GAS DISTRIBUTION CODE
 - AMERICAN SOCIETY OF MECHANICAL ENGINEERS B31.8: GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS
- 4. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID GAS POLICIES AND WORK METHODS, INCLUDING BUT NOT LIMITED TO:
 - CNST01003: BACKFILL AND RESTORATION CNST01005: PREPARATION OF GAS FACILITY HISTORICAL RECORDS
 - CNST01006: COMMERCIALLY AVAILABLE SHORING SYSTEMS CNST02014: ENCAPSULATING CAST IRON JOINTS
 - CNST03001: SQUEEZE-OFF OPERATIONS
 - CNST03002: STOP-OFF OPERATIONS ON LOW PRESSURE MAINS
 - CNST03005: PURGING REQUIREMENTS FOR GAS PIPELINES I) CNST03006: PURGING OPERATIONS — DIRECT REPLACEMENT II) CNST03007: PURGING OPERATIONS - COMPLETE INERT FILL
 - III) CNST03008: PURGING OPERATIONS SLUG METHOD
 - CNST03014: STOP OFF OPERATIONS FOR KLEISS EQUIPMENT
 - CNST04005: INSTALLING STEEL DISTRIBUTION MAINS CNST04007: FIELD COLD BENDING OF LINE PIPE
 - K. CNST04008: INSTALLING PLASTIC MAINS
 - CNST04011: ABANDONMENT OF MAINS CNST04012: GROUTING ABANDONED PIPELINES
 - CNST04030: RAISING MAIN AND SERVICE GATE BOXES
 - CNST05001: JOINING OF PLASTIC PIPE
 - CNST05011: INSTALLATION OF DRESSER 700 COUPLINGS
 - Q. CNST5010: GENERAL CONSTRUCTION REQUIREMENTS AND PIPE HANDLING R. DAMO1011: EXCAVATION AND EXCAVATION NOTIFICATION REQUIREMENTS FOR UNDERGROUND
 - FACILITIES FOR MASSACHUSETTS AND RHODE ISLAND
 - DAMO1015: LOCATE AND MARKOUT REQUIREMENTS FOR UNDERGROUND GAS FACILITIES DAMO1016: LOCATE AND MARK OUT OF UNDERGROUND FACILITIES
 - U. GCON02001: SYSTEM OPERATING PROCEDURE (SOP)
 - V. GEN01100: OPERATOR QUALIFICATION PLAN
 - W. GEN03002: PROCESSING GAS MAIN AND NEW SERVICE WORK PACKAGES
 - X. GEN03004: CHANGE CONTROL PROCEDURE FOR STANDARD CONSTRUCTION PROJECTS
 - INRO6002: SUPPLEMENTAL ODORIZATION FOR NEW PIPING MAIN5030: INSTALLATION OF POLYETHYLENE PIPE
 - AA. MECH5010: JOINTS OTHER THAN WELDED
 - AB. 030018-CS SPECIFICATION AND HANDLING OF TRAFFIC PLATES
 - AC. DAMO1008: CAST IRON ENCROACHMENT POLICY FOR MASSACHUSETTS AND RHODE ISLAND
 - AD. CS-CNST002-MA: TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES AE. CS-MAINOO4: PRESSURE TESTING OF NEW MAINS MAOP OF 124 PSIG OR LESS
 - AF. CNST6061: TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES
 - AG. VALV6020: 2 IN. 12 IN. POLYETHYLENE VALVE INSTALLATIONS ON GAS MAIN AH. FITS6370: VALVE BOXES UP TO 8 IN. VALVES AND ALL RISER RINGS
- 5. SERVICE SPECIFIC GAS POLICIES AND WORK METHODS CMS03002: CUSTOMER METER AND SERVICE REGULATOR DESIGN AND INSTALLATION POLICY
 - CMS04002: PURGING PROCEDURES FOR CUSTOMER METER SERVICES CNST03011: NO-INTERRUPT SERVICE TRANSFER
 - CNST06002: INSTALLING DISTRIBUTION SERVICES
 - CNST06003: INSTALLATION & MAINTENANCE POLICY FOR CURB VALVES ON SERVICE LINES WITH INSTALLED METER CAPACITIES OVER 1000 SCFH THAT DON'T HAVE EXCESS FLOW VALVES CNST06009: METER/SERVICE RELOCATION GUIDELINE
 - G. CNST06020: COMPLETION AND PROCESSING OF GAS SERVICE RECORD CARDS
 - CNST06030: NOTIFICATION OF CUSTOMERS INVOLVED IN THE INTERRUPTION OF GAS SERVICES CS-SERVOO1: TYPICAL 1/2" SERVICE OUTSIDE SETS
 - CS-SERVOO2: TYPICAL 1" SERVICE OUTSIDE SETS
 - K. CS-SERV003: TYPICAL 1-1/4" SERVICE OUTSIDE SETS CS-SERV004: TYPICAL 2" SERVICE
 - M. CS-SERVOO5: EXCESS FLOW VALVE REQUIREMENTS ON HP SERVICES
 - N. CS-SERVOO9: TYPICAL 1/2" SERVICE INSIDE SETS
 - CS-SERV010: TYPICAL 1" SERVICE INSIDE SETS
 - P. HTAP-6010: NO-INTERRUPT 1 INCH CTS AND 1-1/4 INCH CTS SERVICE TRANSFER (NIST) LP
 - Q. SERV-5075: RELOCATION OF METER SET ASSEMBLIES INSIDE TO OUTSIDE SERV-6185: HOT TAPPING MD BRANCH SADDLES OFF 4IN - 12IN 60 PSIG
- VALV6110: 1/2 INCH 3 INCH POLYETHYLENE GAS SERVICE VALVE INSTALLATION 6. SEE TIE IN DETAILS FOR APPLICABLE MAIN CONNECTION REFERENCES
- 7. SEE BILL OF MATERIAL FOR MATERIAL SPECIFICATION, STANDARD AND/OR APPLICABLE NATIONAL GRID A. FOR THIS PROJECT, GRADE B, X42, X52 AND EQUIVALENT ARE ACCEPTABLE STEEL MATERIAL
- STRENGTHS IF APPLICABLE. ALTERNATES TO THE BOM ARE ALLOWED WITHIN THIS RANGE BASED ON MATERIAL AVAILABILITY.

ENVIRONMENTAL

- WORK SHALL CONFORM TO THE NATIONAL GRID ENVIRONMENTAL POLICY.
- ENVIRONMENTAL ENGINEERING CONTACT
- ANDREW L. SHELBY
- PHONE: (781) 907-1867 EMAIL: ANDREW.SHELBY@NATIONALGRID.COM
- CONTRACTOR SHALL REVIEW THE PROJECT WORK ORDER PACKAGE FOR THE ENVIRONMENTAL
- GUIDANCE FORMS, FOR EXAMPLE EG-301, FOR THE RESPECTIVE STATE.
- 4. WHEN SOILS OR LIQUIDS ARE ENCOUNTERED THAT ARE BELIEVED TO BE CONTAMINATED WITH OIL AND/OR HAZARDOUS MATERIAL, EXCAVATION WORK SHALL BE HALTED AND FIELD PERSONNEL SHALL NOTIFY THEIR IMMEDIATE SUPERVISOR.
- 5. NO EXCAVATED SOIL SHALL LEAVE THE WORK SITE UNTIL ENVIRONMENTAL HAS MADE A DETERMINATION FOR ITS PROPER DISPOSAL
- 6. NATIONAL GRID ENVIRONMENTAL POLICIES AND PROCEDURES INCLUDE:
- A. SHE02001: HANDLING CONTAMINATED MATERIALS AND PIPING B. SHE02002: REMOVING MERCURY REGULATORS AND DEVICES SHE02003: ENCOUNTERING CONTAMINATION WHILE EXCAVATING
- EG303-NE: BEST MANAGEMENT PRACTICES
- EG140: USED GAS PIPE MANAGEMENT
- 7. ENVIRONMENTAL REQUIREMENTS:
- -PROPOSED WORK IS LOCATED WITH IN 100 FEET OF WETLANDS AND/ORBODIES OF WATER/ WITH IN 200 FEETOFA RIVERORA STREAM (*25 FEET IN BOSTON, BROCKTON, CAMBRIDGE, CHELSEA, EVERETT, FALL RIVER, LAWRENCE, LOWELL, MALDEN, NEW BEDFORD, SOMERVILLE, SPRINGFIELD, WINTHROP OR WORCESTER) / WITH IN A FLOODPLAIN.

-ENVIRONMENTAL PERMIT AND/OR THE USE OF ENVIRONMENTAL BMPS MAY BE REQUIRED. SEE ENVIRONMENTAL MEMO FOR DETAILS.

DESIGN CRITERIA

- DESIGN IN ACCORDANCE WITH THE FOLLOWING:
- A. ENGO2001: DESIGN OF GAS SERVICES
- B. ENGO4001: DESIGN OF DISTRIBUTION MAINS
- C. ENGO4010: DESIGN REQUIREMENTS FOR INSTALLATION OF CASINGS
- 2. PROPOSED PIPING
- A. DESIGN CLASS LOCATION 4 NOMINAL SIZE - 12 INCH. 8 INCH & 6 INCH
- D. SYSTEM MAOP LP
- 3. PIPE SIZING DETERMINED BY NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING
- 4. BYPASS REQUIREMENTS FOR ALL MAIN CONNECTIONS TO BE DETERMINED BY NATIONAL GRID OPERATIONS ENGINEERING AND IMPLEMENTED IN ACCORDANCE WITH THE SOP PROCESS
- 5. FOR WORK ORDERS PERTAINING TO ENCROACHMENTS, NATIONAL GRID SHALL DETERMINE IN THE FIELD THE EXACT LOCATION OF THE ENCROACHMENT TO ENSURE THE REPLACEMENT COMPLIES WITH DAMO1008 AND REMOVES ANY POTENTIAL HAZARD CREATED BY THE ENCROACHMENT.

<u>SEQUENCE OF CONSTRUCTION</u>

- I. CONTRACTOR SHALL CALL DIGSAFE (DIAL 811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED.
- 2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS DESIGN PRIOR TO CONSTRUCTION.
- NOTIFY NATIONAL GRID I & R THAT THE PROJECT IS WITHIN 200 FEET OF A REGULATOR STATION
- 4. INSTALL MAIN AS INDICATED IN SCOPE OF WORK
- PRESSURE TEST INSTALLED MAIN (SEE PRESSURE TESTING SECTION)
- CONNECT NEW 12 IN PL LP MAIN TO EXISTING 12 IN PL LP MAIN AND CUT & CAP 4 IN PL LP MAIN AT INTERSECTION OF BOARDMAN ST AND FORD ST PER PROPOSED TIE-IN DETAIL 3
- 7. PURGE NEW MAIN INTO SERVICE
- 8. BEGIN TRANSFER/RELAY OF SERVICES 9. CONNECT NEW 8 IN PL LP MAIN TO EXISTING 6 IN CS LP MAIN AND CUT & CAP EXISTING 6 IN CS LP MAIN #131 ASHLEY ST PER PROPOSED TIE-IN DETAIL 2
- 10. COMPLETE TRANSFER/RELAY OF SERVICES 11. CONNECT NEW 12 IN PL LP MAIN TO EXISTING 8 IN LP LP MAIN AND CUT & CAP EXISTING 8 IN LP LP MAIN AT #111 BOARDMAN ST PER PROPOSED TIE-IN DETAIL 1
- 12. PURGE OLD MAIN OUT OF SERVICE AND ABANDON 13. PERFORM RESTORATION

- 1. PRESSURE TESTING TO BE IN ACCORDANCE WITH:
 - A. CNST04003: PRESSURE TESTING MAINS OPERATING BELOW 125 PSIG. TEST PRESSURE (MINIMUM): 90 PSIG
- TEST DURATION BASED ON LENGTH AND DIAMETER IN ACCORDANCE WITH TABLE TEST MEDIUM: AIR AND/OR NITROGEN
- CS-MAINO04: PRESSURE TESTING OF NEW MAINS MAOP OF 124 PSIG OR LESS 2. PRESSURE TEST SERVICES IN ACCORDANCE WITH:
- **WELDING** 1. NATIONAL GRID WELDING GAS POLICIES AND WORK METHODS INCLUDE:
- CNST05002: WELDING POLICY
- CNST05003: PIPE WELDING SAFETY CNST05005: WELDING PROCEDURE SPECIFICATIONS

A. CNST06008: PRESSURE TESTING SERVICE LINES

- MS-030: WELDING FILLER MATERIALS 2. PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL SUBMIT WELDER
- CERTIFICATION DOCUMENTS FOR EACH OF THE WELDERS EMPLOYED ON THIS PROJECT. WELDING PROCEDURE SPECIFICATIONS REQUIRED A. BUTT WELDS (GROOVE): WPS-SMAW-E6010/7010 (LATEST REVISION)
- B. FILLET WELDS (BRANCH): WPS-SMAW-E6010/7010 (LATEST REVISION) 4. 10% (AT LEAST 1) OF WELDS IN EACH CATEGORY BELOW SHALL BE SUBJECT TO
- NON-DESTRUCTIVE EXAMINATION (NDE). A. BUTT WELDS 2-INCH AND GREATER: 10% RADIOGRAPH B. BUTT WELDS < 2-INCHES: 10% MAGNETIC PARTICLE
- FILLET WELDS: 10% MAGNETIC PARTICLE NDE AND WELD MAP SHALL BE PROVIDED BY SKYTESTING

CELL: (704) 858-7794 EMAIL: WCLARK@SKYTESTING.COM

6. SKYTESTING SCHEDULING CONTACT:

WILLIAM (BILL) CLARK

- **CATHODIC PROTECTION** 1. IF EXISTING TEST STATIONS, WIRES, AND/OR MAGNESIUM ANODES ARE DISTURBED OR DAMAGED, NOTIFY THE NATIONAL GRID CORROSION DEPARTMENT:
- BUTCH VINCENT: (617) 438-5192 2. 24 HOUR NOTICE IS REQUIRED PRIOR TO INSTALLATION OF INSULATED FITTINGS TO ALLOW FOR ACCEPTANCE TESTING
- 3. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID CORROSION GAS POLICIES AND WORK METHODS INCLUDING:
 - CORO2020: INSPECTING EXPOSED STEEL PIPE FOR CORROSION COR02021: INSPECTING EXPOSED CAST OR DUCTILE PIPING FOR GRAPHITIZATION

INSTALLED TO TIE IN A PLASTIC PIPE TO A METALLIC PIPE

- COR03001: TESTING OF PIPE COATING (JEEP TESTING)
- CORO4001: INSTALLATION OF MAGNESIUM ANODES COR04003: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION

CORO2001: APPLICATION OF COATING SYSTEMS

COR01100: CORROSION DESIGN CRITERIA

- COR04004: INSTALLATION OF WIRE CONNECTION COR04005: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION 030031-CS: FACILITY COATING GUIDE
- 030024-CS: INSTALLATION OF MAGNESIUM ANODES 030026-CS: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION M. 030016-CS: ELECTRICAL ISOLATION REQUIREMENTS OF A METALLIC COUPLING
- N. 030028-CS: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION O. 030036-CS: INSTALLING WIRE CONNECTIONS 4. CORROSION DESIGN: SEE CONTENTS OF THIS DESIGN FOR CATHODIC PROTECTION DETAILS.

SAFETY

- WORK SHALL CONFORM TO THE NATIONAL GRID EMPLOYEE SAFETY HANDBOOK AND OSHA REQUIREMENTS
- REQUIRED PPE SHALL BE WORN AND UTILIZED IN ACCORDANCE WITH THE CURRENT NATIONAL GRID SAFETY POLICY. A NATIONAL GRID APPROVED CONTRACTOR HEALTH AND SAFETY PLAN (HASP) IS REQUIRED PRIOR TO CONSTRUCTION.
- CONSTRUCTION SIGNING, DRUMS, BARRICADES, AND OTHER DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM
- TRAFFIC CONTROL DEVICES (M.U.T.C.D.) PART VI AND SHALL BE MAINTAINED BY THE CONTRACTOR.
- 5. NATIONAL GRID SAFETY POLÌCIES AND PROCEDURES INCLUDE: A- ADMINISTRATIVE
 - B- INSPECTIONS C- WALKING WORKING SURFACES
 - D- MEANS OF EGRESS E- MATERIAL HANDLING AND STORAGE F- TOXIC AND HAZARDOUS SUBSTANCES
 - G- HAZARDOUS MATERIALS H- PERSONAL PROTECTIVE EQUIPMENT I GENERAL ENVIRONMENTAL CONTROLS J- ACCIDENT INVESTIGATION K- MACHINERY AND GUARDING L- WELDING/CUTTING/BRAZING
- M- EXCAVATIONS N- CONTRACTORS FIRE PROTECTION Q- FLEET AND ROADWAY SAFETY
- 6. GAS WORK METHODS SAFETY PROCEDURES INCLUDE:
- A. SHE01001: GENERAL SAFETY REQUIREMENTS
- B. SHE01002: SUPPLIED-AIR RESPIRATORS SHE01003: USING AND MAINTAINING PORTABLE GAS MONITORS
- SHE01004: USING AND MAINTAINING FLAME IONIZATION UNITS
- SHE01005: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE SHE01006: ENTERING GAS UTILITY VAULTS
- SHE01008: USING AND MAINTAINING THE GAS-EXPLORER SHE01009: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE

SHE01010: THE APPLICATION OF FORMAL PROCESS SAFETY ASSESSMENTS TO HIGHER-RISK GAS ACTIVITIES

PERFORMED IN THE FIELD J. SHE02001: HANDLING CONTAMINATED MATERIALS AND PIPING

OTHER PERMITTING REQUIREMENTS

- -CITY/TOWN OF BOSTON STREET OPENING PERMIT.
- -TMP: REQUIRED TO PERFORM WORK IN EAST BOSTON -MWRA: REQUIRED TO PERFORM WORK IN SARATOGA/FORD ST INTERSECTION

AVAILABLE MAPS AND RECORDS.

REFERENCE DRAWINGS UNDERGROUND UTILITIES ARE NOT SHOWN, NATIONAL GRID FACILITIES ARE SHOWN BASED ON

THE TOPOGRAPHIC AND ELEVATION DATA SHOWN HEREON WAS OBTAINED FROM MASS GIS AND IS NOT CERTIFIED AS CORRECT AND/OR ACCURATE BY THIS ENGINEER. USERS RELY ON SAID DATA AT THEIR OWN RISK.

CONSULTANT CONTACT INFORMATION

CHA CONSULTING, INC.: JEFFREY O'DONNELL, P.E.

BUSINESS PRACTICE LEADER - GAS ENGINEERING (781) 982-5456

JODONNELL@CHACOMPANIES.COM

BILL OF MATERIALS

ITEM	QTY	UOM	DESCRIPTION	SIZE (IN.)	NATIONAL GRID REFERENCE	SAP ID NUMBE
1	1,395	FT	PIPE, 12 IN, PLASTIC	12	120026-MS	9340863
2	120	FT	PIPE, 8 IN, PLASTIC	8	120026-MS	9340862
3	6	FT	PIPE, 6 IN, PLASTIC	6	120026-MS	9384339
4	3	FT	PIPE, 3 IN, PLASTIC	3	120026-MS	9322708
5	A/R	EA	ELBOW, 12 IN, PLASTIC, 45 DEGREE	12	CS-FIT011	9341403
6	A/R	EA	ELBOW, 8 IN, PLASTIC, 45 DEGREE	8	CS-FIT011	9341402
7	A/R	EA	ELBOW, 6 IN, PLASTIC, 45 DEGREE	6	CS-FIT011	9341401
8	1	EA	TEE, 12 IN, PLASTIC	12	CS-FIT012	9339581
9	2	EA	REDUCER, 12 IN X8 IN, PLASTIC	12 X 8	CS-FIT013	9342617
10	2	EA	REDUCER, 8 IN X 6 IN, PLASTIC	8 X 6	CS-FIT013	9342616
11	1	EA	REDUCER, 4 IN X 3 IN, PLASTIC	4 X 3	CS-FIT013	9342615
12	A/R	EA	COUPLING, 12 IN, PLASTIC ELECTROFUSION	12	CS-FIT015	9314939
13	A/R	EA	COUPLING, 8 IN, PLASTIC ELECTROFUSION	8	CS-FIT015	9314591
14	A/R	EA	COUPLING, 6 IN, PLASTIC ELECTROFUSION	6	CS-FIT015	9314592
15	A/R	EA	COUPLING, 4 IN, PLASTIC ELECTROFUSION	4	CS-FIT015	9314593
16	A/R	EA	COUPLING, 3 IN, PLASTIC ELECTROFUSION	3	CS-FIT015	9307689
17	1	EA	VALVE, 12 IN, PLASTIC, FULL BORE/PORT, MDPE	12	VALV6020	9341704
18	2	EA	VALVE, 8 IN, PLASTIC, FULL BORE/PORT, MDPE	8	VALV6020	9386594
19	1	EA	VALVE, 6 IN, PLASTIC, FULL BORE/PORT, MDPE	6	VALV6020	9323032
20	1	EA	VALVE, 3 IN, PLASTIC, FULL BORE/PORT, MDPE	3	VALV6020	9323299
21	1	EA	SADDLE, 12 IN X 8 IN, ELECTROFUSION, INCL UNDERSADDLE, HDPE	12 X 8	CS-FIT015	9386816
22	1	EA	SADDLE, 12 IN X 4 IN, ELECTROFUSION, INCL UNDERSADDLE, HDPE	12 X 4	CS-FIT015	9307532
23	A/R	EA	CAP, 8 IN, PLASTIC, ELECTROFUSION	8	CS-FIT015	9393633
24	A/R	EA	CAP, 8 IN, PLASTIC, MDPE, BUTT FUSE	8	CS-FIT010	9339559
25	A/R	EA	CAP, 6 IN, PLASTIC, HDPE, ELECTRO FUSE	6	CS-FIT015	9393581
26	A/R	EA	CAP, 6 IN, PLASTIC, MDPE, BUTT FUSE	6	CS-FIT010	9339733
27	A/R	EA	CAP, 4 IN, PLASTIC, ELECTROFUSION	4	CS-FIT015	9393582
28	A/R	EA	CAP, 4 IN, PLASTIC, MDPE, BUTT FUSE	4	CS-FIT010	9339534
29	A/R	EA	CAP, 3 IN, PLASTIC, HDPE, ELECTRO FUSE	3	CS-FIT015	9393583
30	A/R	EA	CAP, 3 IN, PLASTIC, MDPE, BUTT FUSE	3	CS-FIT010	9339541
31	1	EA	CAP, 6 IN, STEEL, DRESSER, SELF-RESTRAINING	6	FITS6024	9314880
32	1	EA	COUPLING, 6 IN, ST X ST /PL, DRESSER, NON-RESTRAINING, NON-INSULATED	6	FITS6025	9315665
33	1	EA	STIFFENER, 6 IN	6	FITS6025	9340225
34	A/R	EA	ELBOW, PLASTIC, MDPE, 90 DEGREE	8	CS-FIT011	9341398
GENERA	L					
G1	A/R	FT	TRACER WIRE	N/A	CNST6061	9315005
G2	A/R	ROLL	YELLOW CAUTION TAPE - GAS MAIN - 6" WIDE	6	CNST6060	9341904
G3	1	EA	VALVE BOX ASSEMBLY	12	FITS6360	(SEE STD)
G4	2	EA	VALVE BOX ASSEMBLY	8	FITS6370	(SEE STD)
G5	1	EA	VALVE BOX ASSEMBLY	6	FITS6370	(SEE STD)
G6	1	ΕΛ	VALVE BOY ASSEMBLY	2	EITS6370	(SEE STD)

NOTE: ALL MATERIAL QUANTITIES ARE ESTIMATED BASED ON PROPOSED DESIGN. ADDITIONAL QUANTITIES AND/OR OTHER MATERIALS MAY BE REQUIRED TO

CONSTRUCT VERTICAL OFFSETS OR DUE TO OTHER UNKNOWN AS-FOUND CONDITIONS/DESIGN CONFLICTS AND FOR TESTING

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THIS DOCUMENT IS A VIOLATION OF

BOSTON GAS COMPANY d/b/a national**gric** 40 SYLVAN ROAD WALTHAM, MA 02451 **FINAL** ISSUED FOR CONSTRUCTION 12/02/2021 | SK | CEK | GWP DESCRIPTION DATE DR.BY CK.BY APP.BY

1-111 BOARDMAN ST & 131-135 ASHLEY ST BOSTON, MA

ENGINEER

C.KOLOD

DESIGNER

S.KHAFAJI

DWG SIZE

C2 A/R EA 17# ANODE

G6 1 EA VALVE BOX ASSEMBLY

C1 A/R EA CP TEST BOX W/ COVER

PROPOSED GAS MAIN REPLACEMENT

CONSTRUCTION NOTES AND BOM

DATE:

12/02/2021 DISTRIBUTION

CATHODIC PROTECTION

SHEET NO. DRAWING NO. ASSET I.D. W.O. NO.:

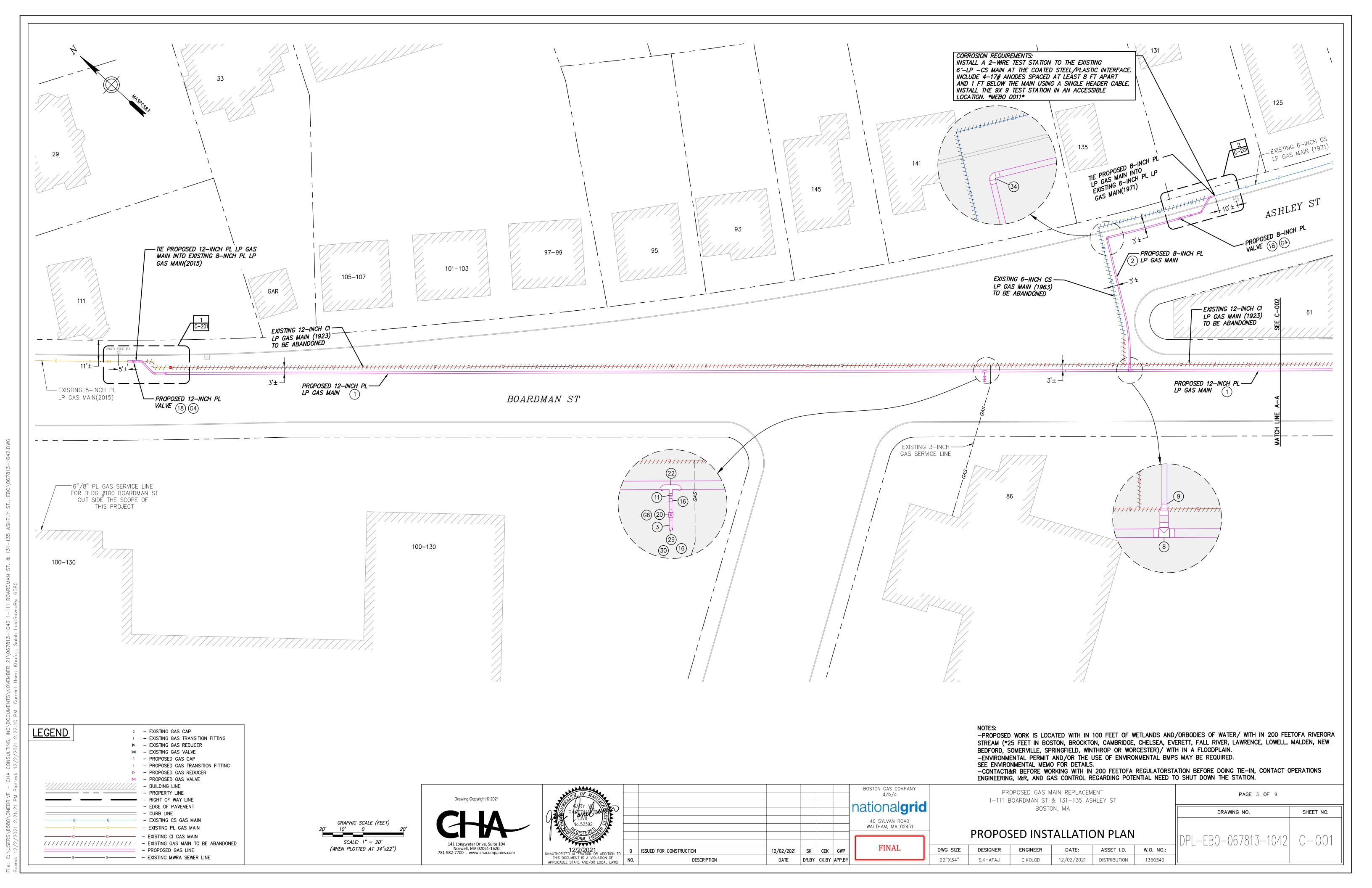
PAGE 2 OF 9

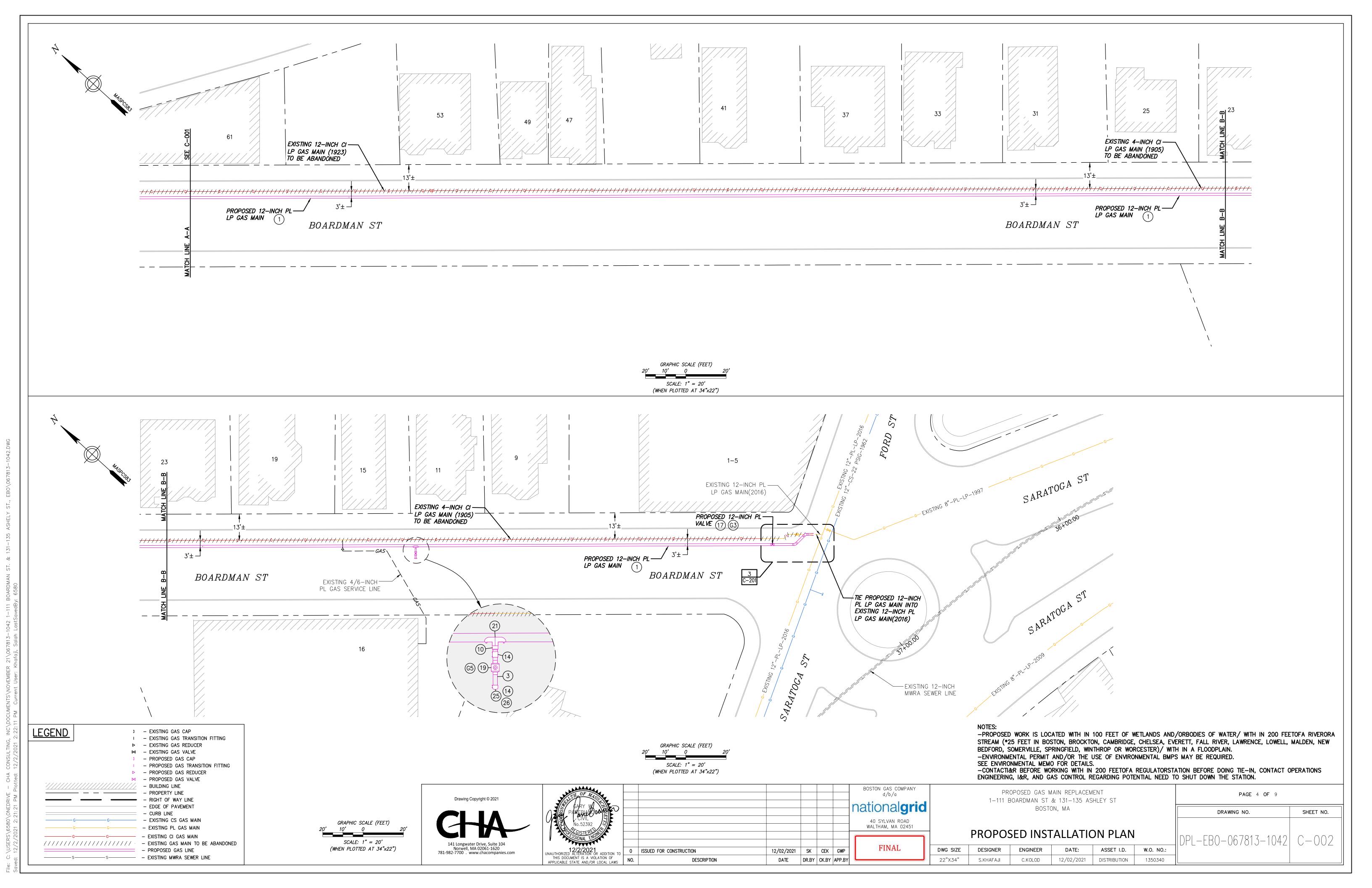
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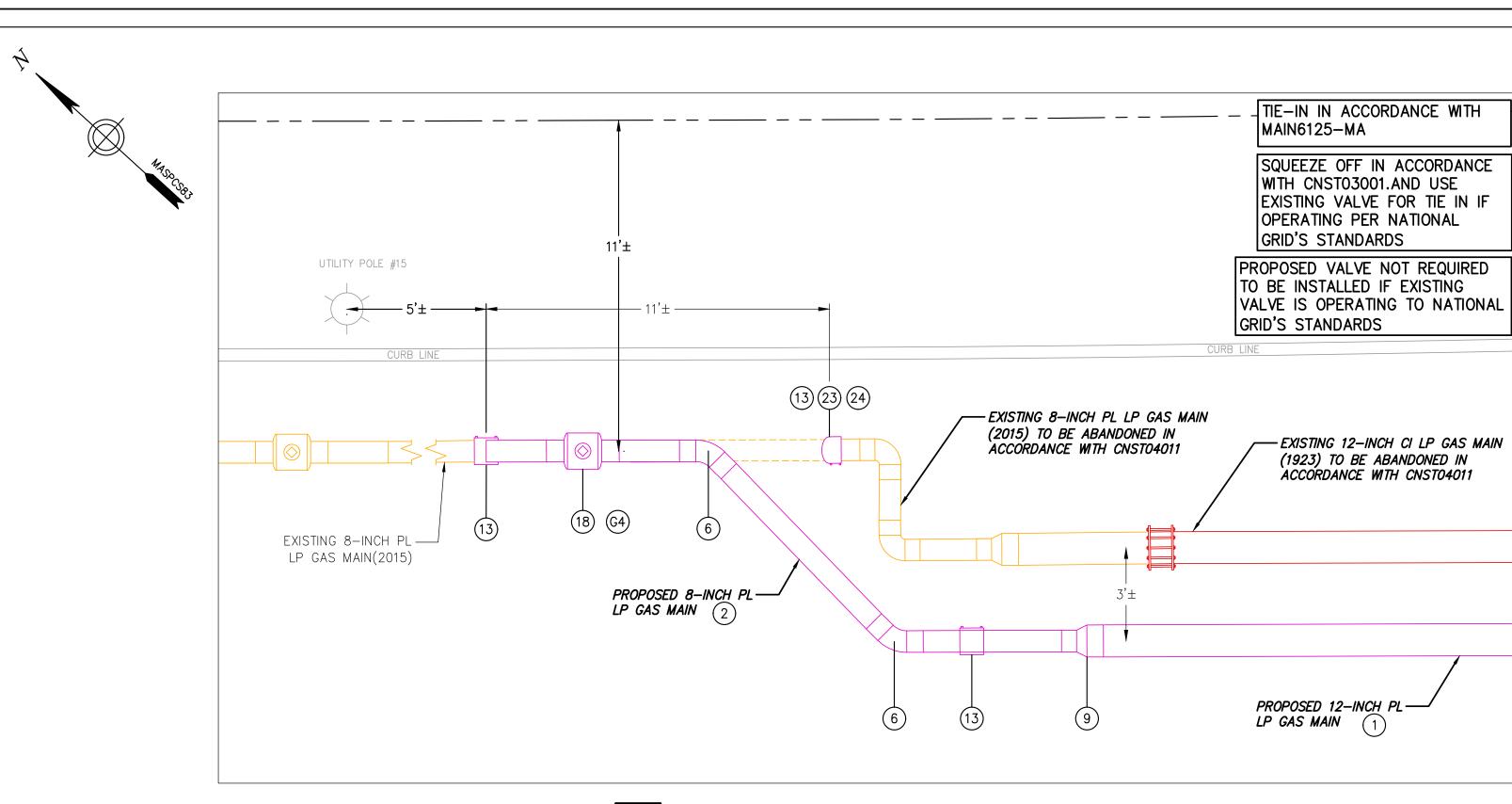
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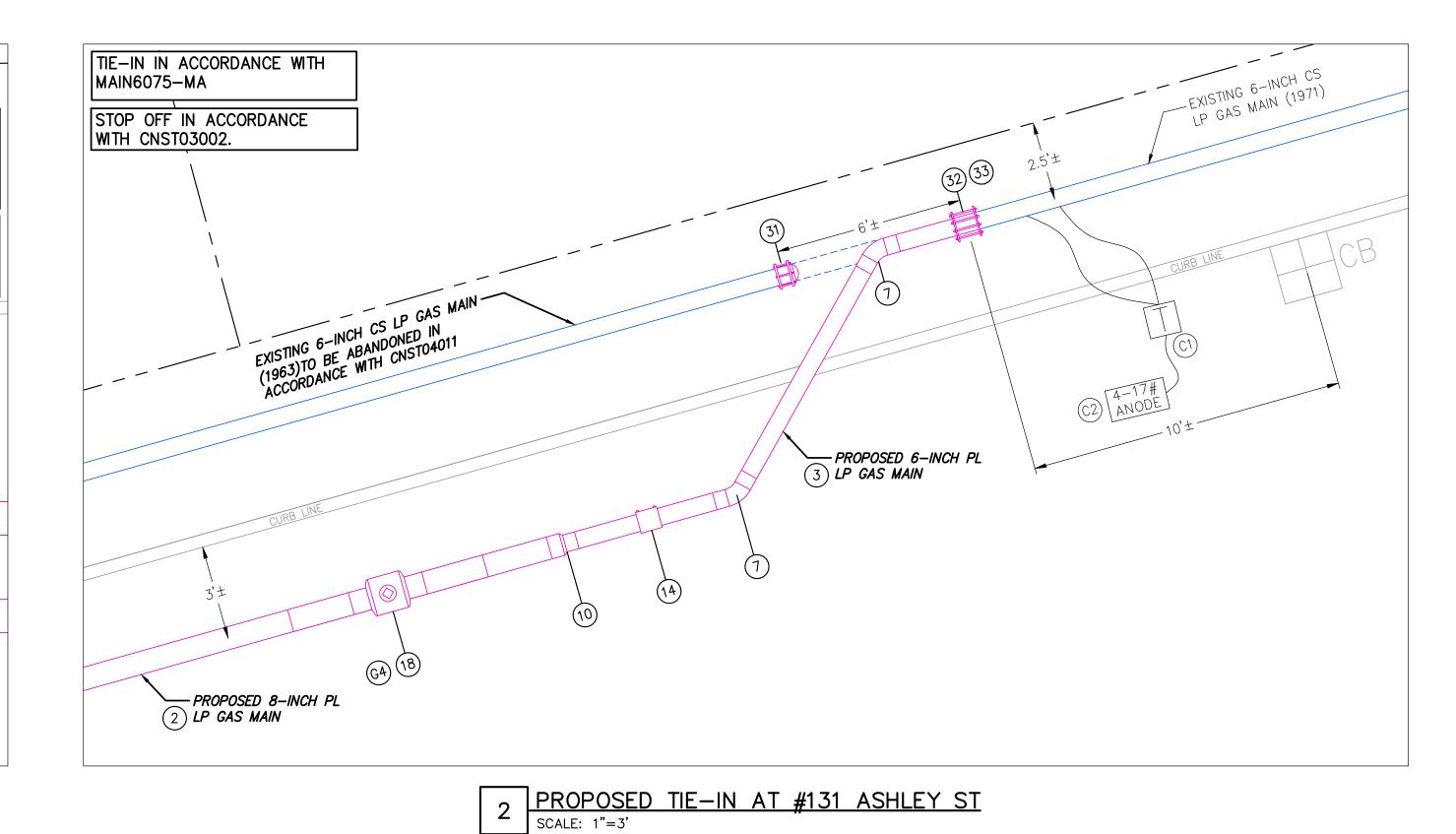
030026-CS

030024-CS









1 PROPOSED TIE-IN AT #111 BOARDMAN ST

TIE-IN IN ACCORDANCE WITH MAIN6126-MA SQUEEZE OFF IN ACCORDANCE WITH CNST03001.OR STOP OFF IN ACCORDANCE WITH CNST03002 THE EXACT TIE-IN LOCATION TO THE EXISTING MAIN COULD NOT BE IDENTIFIED TIE IN AT EXISTING -BASED ON THE INFORMATION PROVIDED 8"X12" PL REDUCER EXISTING 12-INCH PL -BY NATIONAL GRID.FIELD CREWS TO DETERMINE EXACT LOCATION OF TIE-IN. LP GAS MAIN(2016) — EXISTING 4—INCH CI & PL LP GAS——— MAIN (1905 & 2016)TO BE ABANDONED IN ACCORDANCE WITH CNST04011 (17) (G3) PROPOSED 12—INCH PL——ILP GAS MAIN (1)

3 PROPOSED TIE-IN BOARDMAN ST AT FORD ST SCALE: 1"=3"

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BOSTON GAS COMPANY d/b/a nationalgrid
40 SYLVAN ROAD WALTHAM, MA 02451

0 ISSUED FOR CONSTRUCTION 12/02/2021 SK CEK GWP

DATE DR.BY CK.BY APP.BY

DESCRIPTION

PROPOSED GAS MAIN REPLACEMENT 1-111 BOARDMAN ST & 131-135 ASHLEY ST BOSTON, MA

DWG SIZE

PROPOSED TIE-IN DETAILSDESIGNERENGINEERDATE:ASSET I.D.W.O. NO.:S.KHAFAJIC.KOLOD12/02/2021DISTRIBUTION1350340

DRAWING NO. SHEET NO.

DPL-EB0-067813-1042 C-201

PAGE 5 **OF** 9

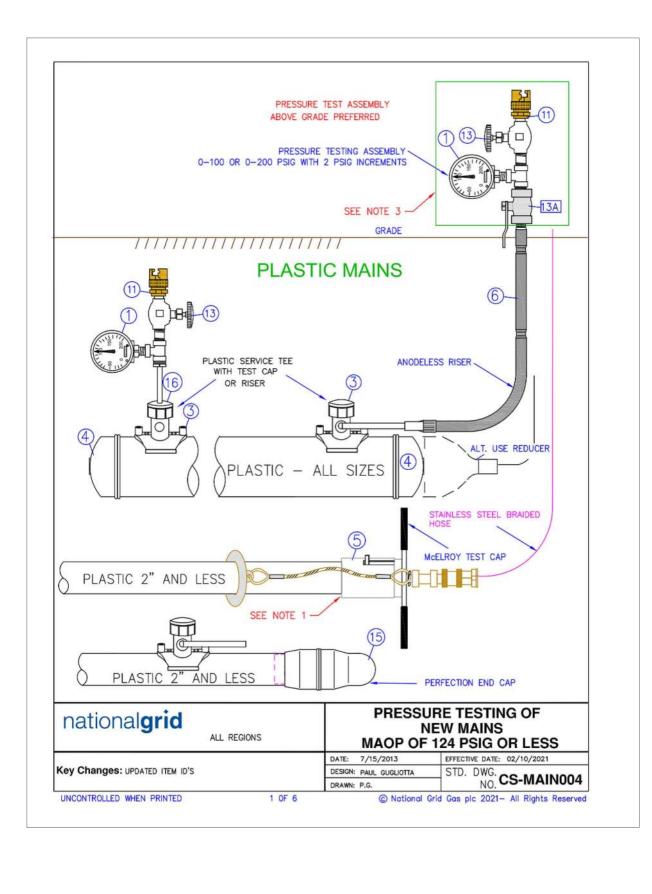
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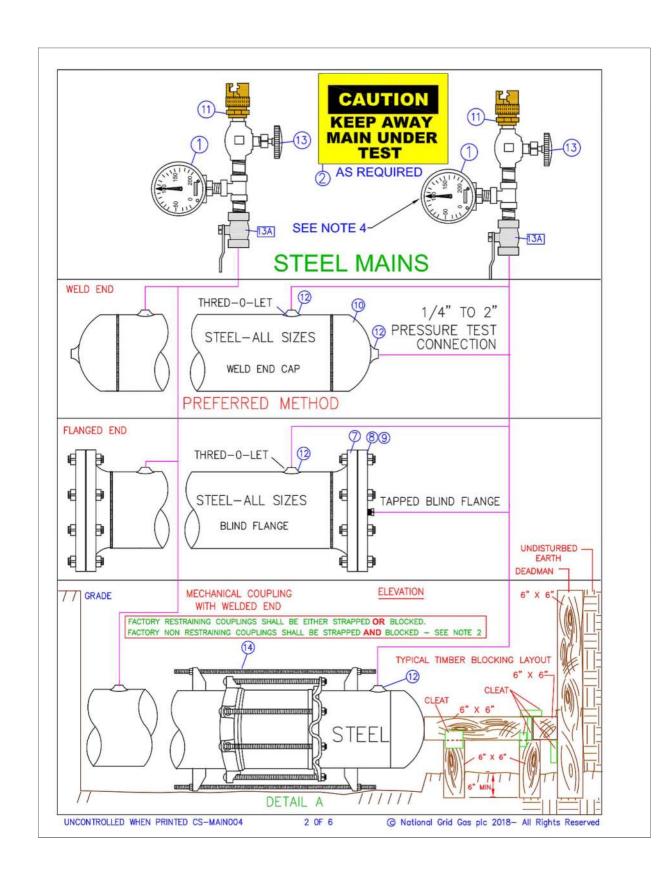
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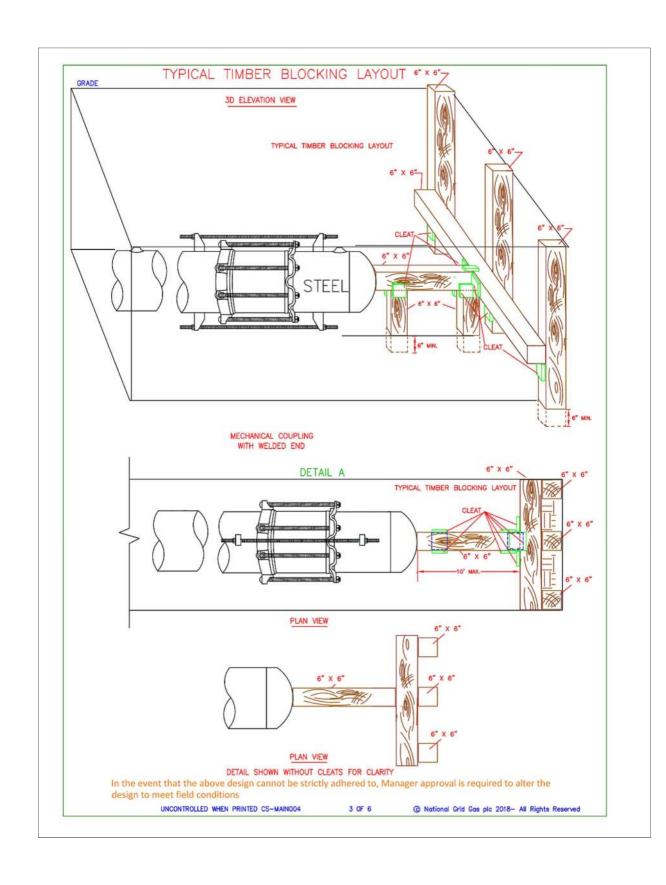
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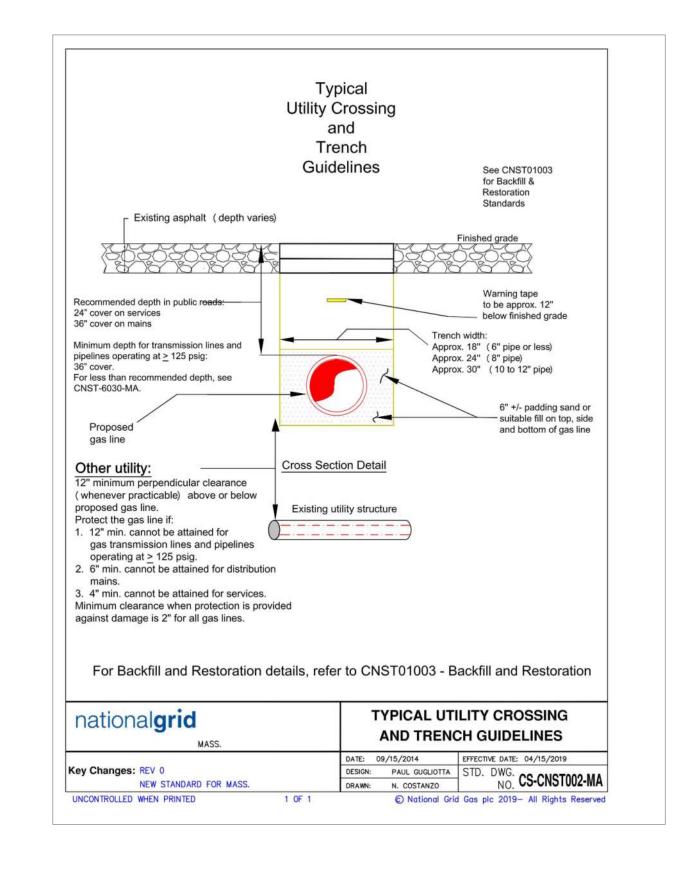
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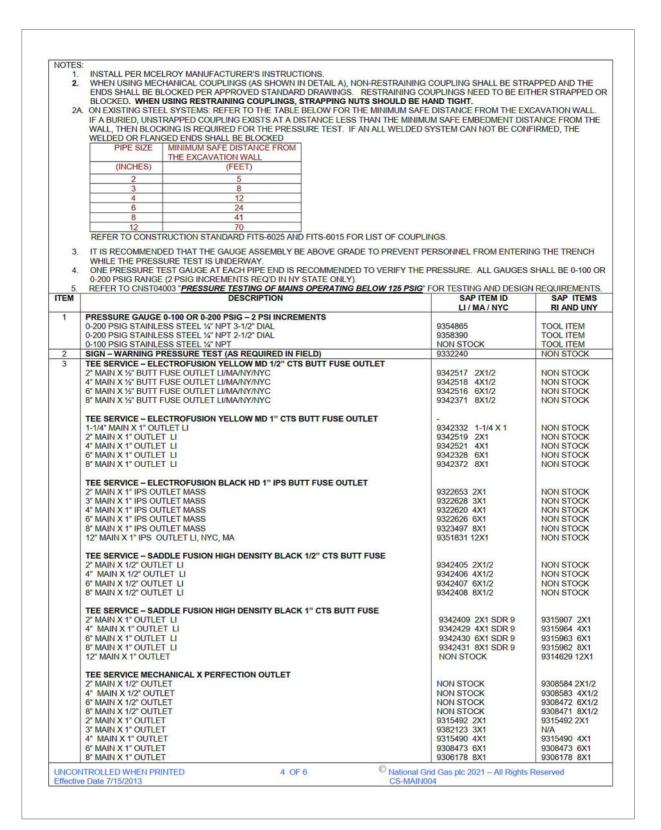
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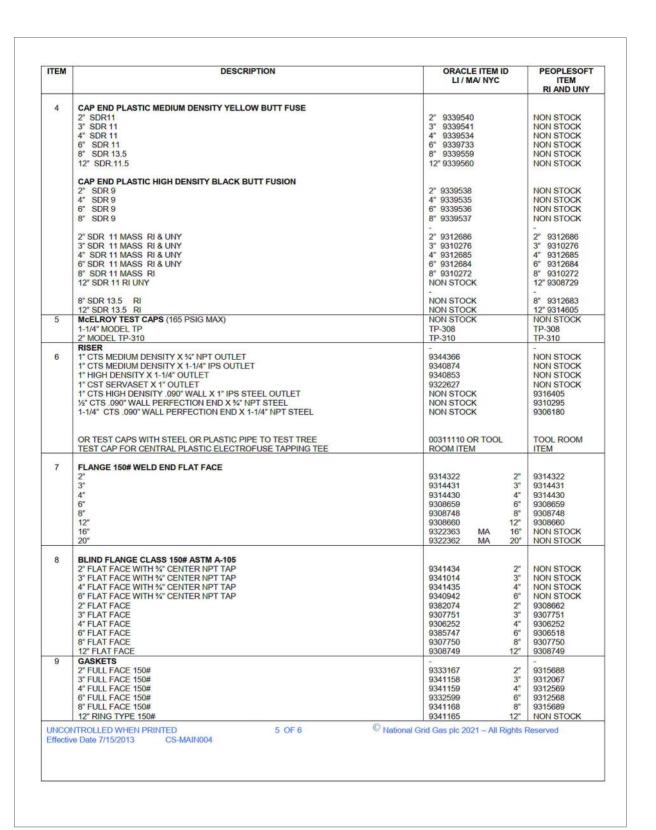












ITEM	DESCRIPTION	ORACLE ITEM ID LI / MA / NYC	PEOPLESOFT ITEM RI AND UNY
10	END CAPS – STEEL WELD END STANDARD WALL –GRADE B 2" 3" 4" 6" 8" 10" 12" 16" 20"	9312095 2" 9308719 3" 9312096 4" 9312094 6" 9312093 8" 9315182 10" 9312092 12" 9314824 16" 9339687 20"	9312095 9308719 9312096 9312094 9312093 9315182 9312092 9314824 9314824
11	THOR FITTING ½" MALE NPT X HOSE CONNECTION ¾" FEMLAE X HOSE CONNECTION	- 00504089 00504301	NON STOCK NON STOCK
12	THRED-O-LET 12" - 6" X 3/" 3000# PER ASTM A-105 GRADE B 10" - 6" X 1" 3000# PER ASTM A-105 GRADE B 36" - 12" X 1" 3000# PER ASTM A-105 GRADE B 2" X 1" 3000# PER ASTM A-105 GRADE B 10" - 6" X 1" 3000# PER ASTM A-105 GRADE B 36"-14" X 3/" 3000# PER ASTM A-105 GRADE B	9341652 12-6X3/4 9341656 10-6X1 9342052 36-12X1 NON STOCK NON STOCK NON STOCK	- NON STOCK NON STOCK NON STOCK 9307678 2X1 9307695 10-6X1 9307677 36-14X3/
13	VALVE		
13A	VALVE (OPTIONAL – TO SHUT OFF TEST ASSEMBLY)		
14	LUG ASSEMBLY 7/8" x 24" LONG (LI ONLY - SEE MAIN-6210) 7/8" x 44" LONG (LI ONLY - SEE MAIN-6210) LUG GREEN 3"- 8"MAIN 7/8" DIAM. (NYC ONLY - SEE MAIN-6230 & MAIN-6230) LUG YELLOW 10"- 30" MAIN 1-1/16" DIAM. (NYC ONLY - SEE MAIN-6230& MAIN-6230) ROD 3/" X 12" LONG (NYC ONLY ROD 1" X 12" LONG (NYC ONLY) LUG ASSEMBLY 3/"X 30" LONG	9342211 9342212 9357904 9357905 9328152 9328150 NON STOCK	NON STOCK NON STOCK NON STOCK NON STOCK NON STOCK NON STOCK 9315741
15	COUPLING - END 2" PERFECTION	NON STOCK	0803641
16	TEST CAP	NON STOCK	TOOL ROOM
	FOR SADDLE FUSION TEE – JM EAGLE / POLY / UPONOR FOR SADDLE FUSION TEE – PERFORMANCE PIPE TEES FOR HYTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION CENTAL PLASTICS FOR HYTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION – JM EAGLE / POLY/ UPONOR FOR HYTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION PERFORMANCE PIPE TEES FOR HYTT ELECTROFUSION TEE FOR ELECTROFUSION TEE FOR PERFECTION PMTT MECHANICAL TEE (CAP FITS ALL MAIN SIZE & OUTLET SIZES OF PMTTS)	9325017 9341368 9384268 9384174 9323715 9382494 9381846 9339561	
	INTROLLED WHEN PRINTED 6 OF 6 National Gove Date 2/15/2021	Grid Gas plc 2021 – All Rights CS	s Reserved -MAIN004

NATIONAL GRID
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	1-111	BOARDMAN	ST	&	131-135	ASHLEY	ST
BOSTON, MA							

C.KOLOD

DWG SIZE

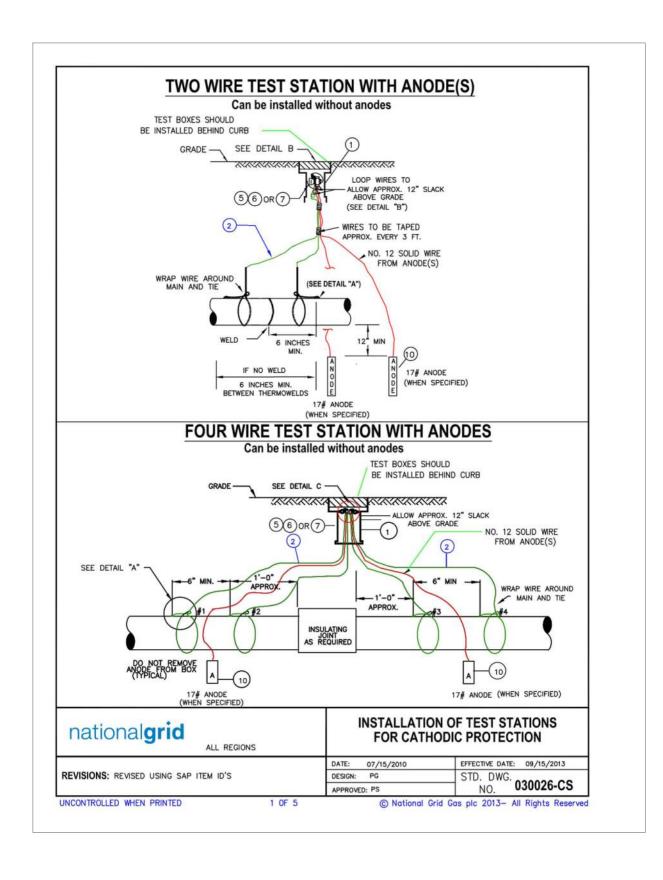
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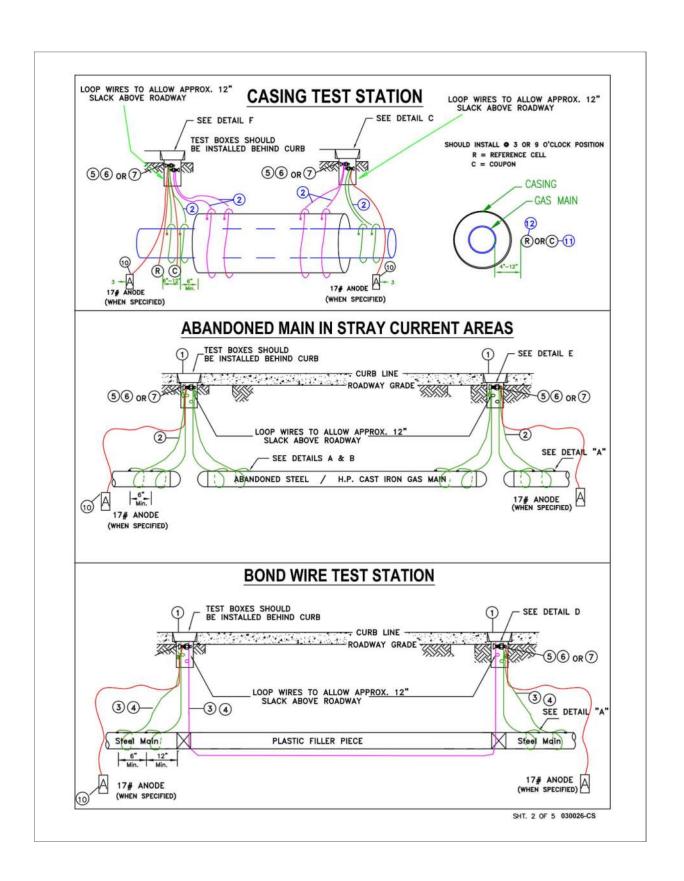
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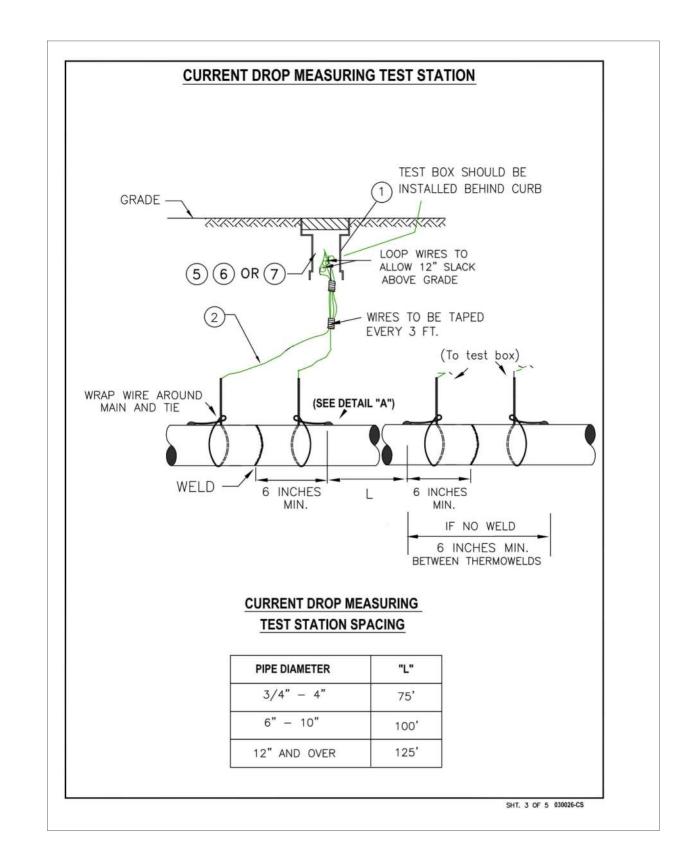
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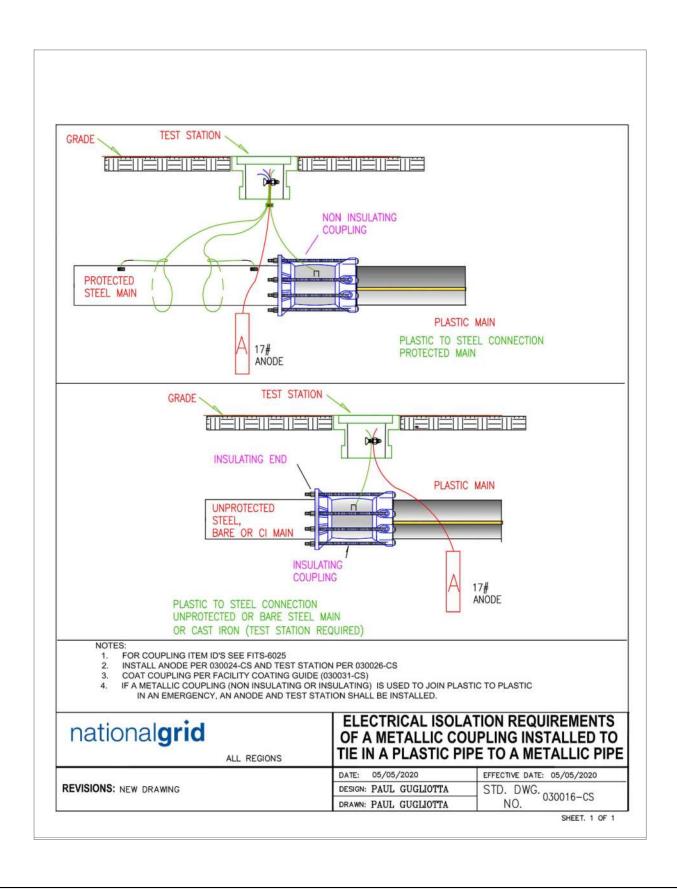
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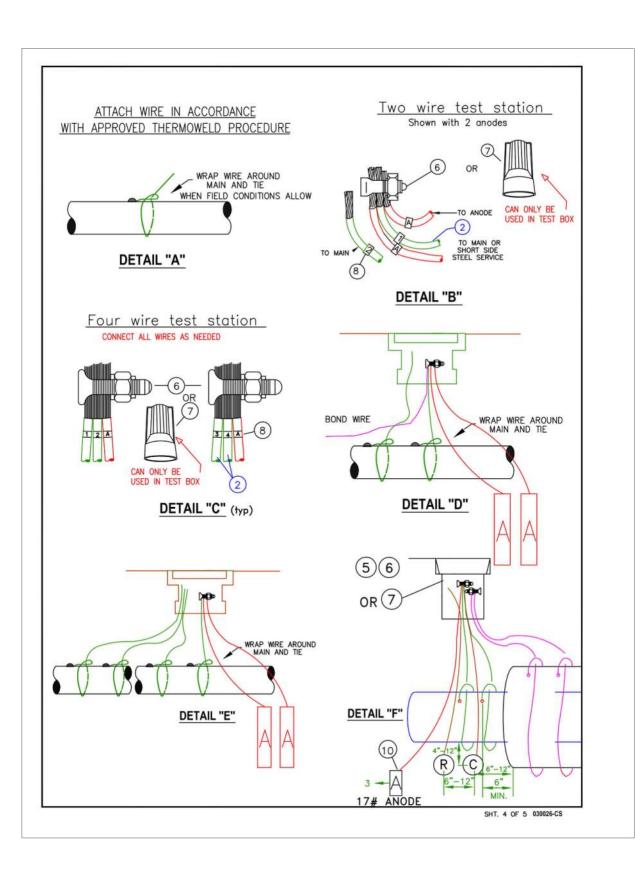
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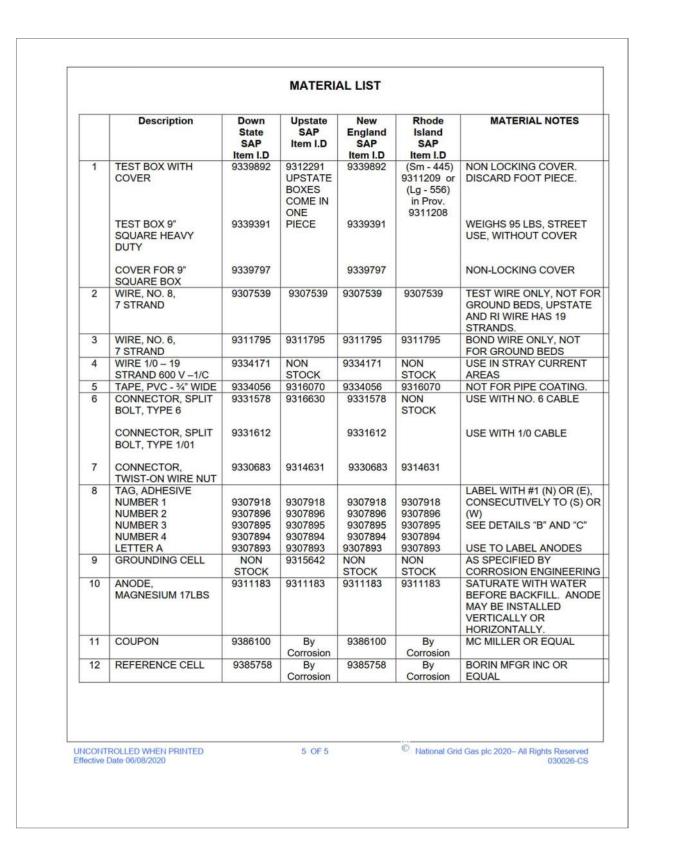


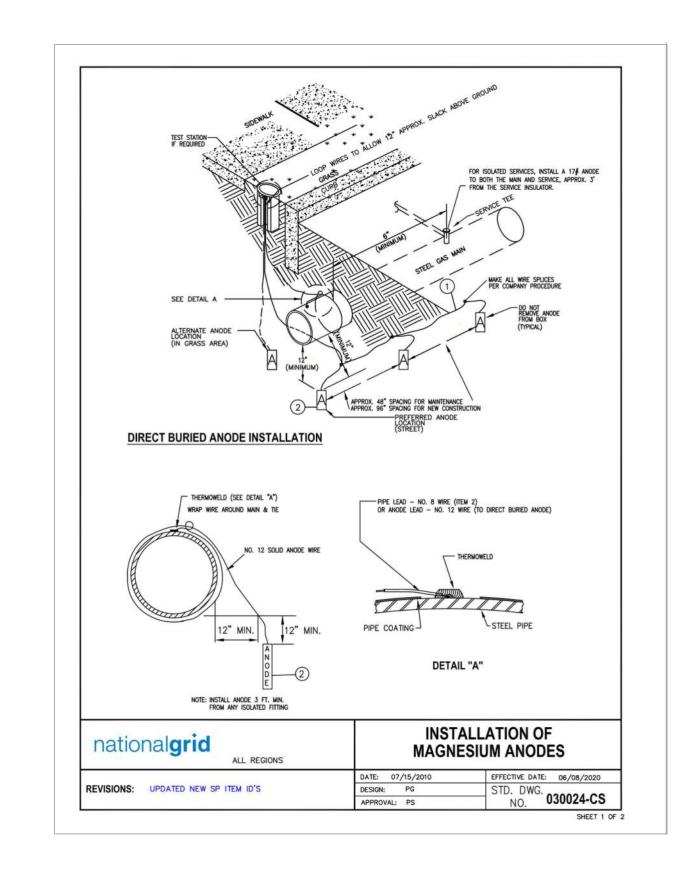


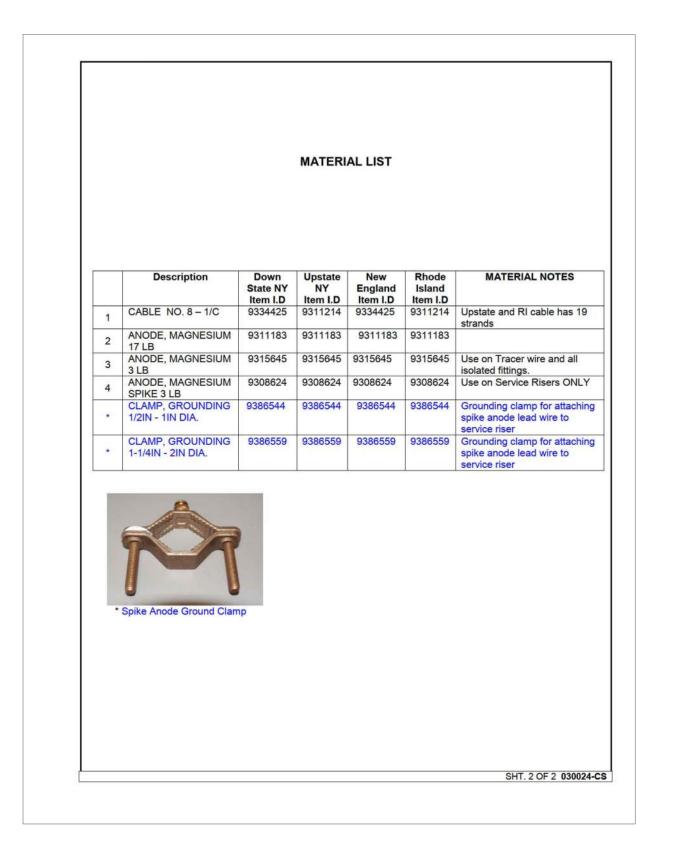












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							40 SYLVAN ROAD WALTHAM, MA 02451
7/13/2021							FINAL
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PROPOSED GAS MAIN REPLACEMENT 1-111 BOARDMAN ST & 131-135 ASHLEY ST BOSTON, MA

C.KOLOD

DWG SIZE

22"X34"

S.KHAFAJI

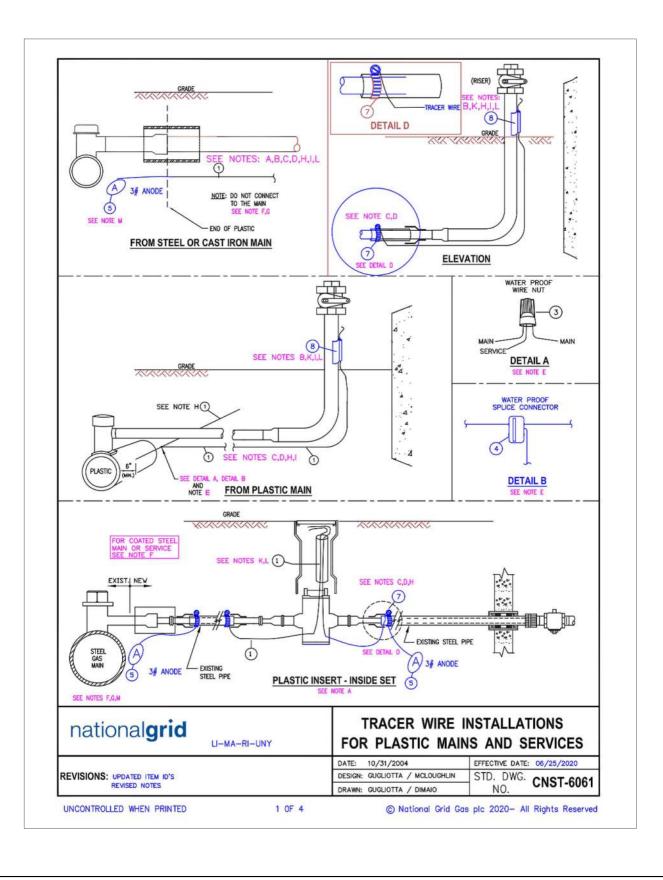
NATIONAL GRID STANDARD CONSTRUCTION DETAILS

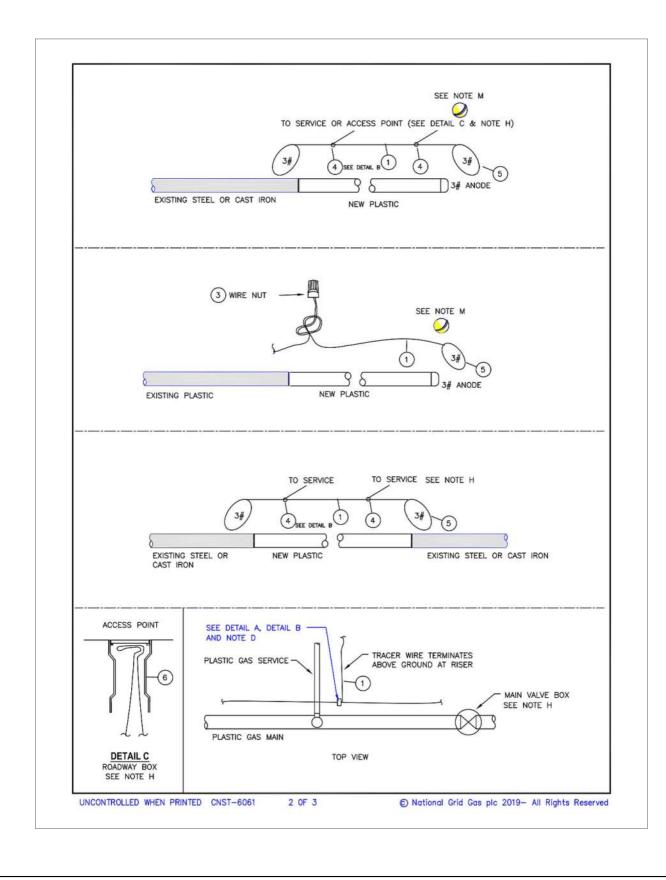
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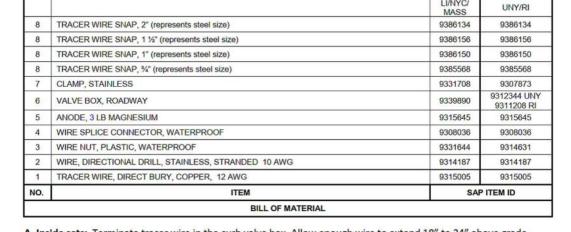
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	DRAWING NO.	SHEET NO.
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RS\6580\ONEDRIVE - CHA CONSULTING, INC\DOCUMENTS\NOVEMBER 21\067813-1042 1-111 BOARDMAN ST. & 131-135 ASHELY ST.,







A. Inside sets: Terminate tracer wire in the curb valve box. Allow enough wire to extend 18" to 24" above grade.

B. Outside Sets: Tracer wire should be extended approximately 18" above grade at riser. Connect tracer wire to the riser using a "tracer snap", Item #8. If the appropriate tracer snap is not available, wrap or tie the tracer wire to the riser. Do not permanently attach tracer wire to the riser. Tracer wire should not exceed 6" above the point where it is secured to the riser.

C. Partially tubed services: When the abandoned portion of an existing steel service pipe is used as a sleeve for the new plastic, all cut out sections of the steel pipe to be inserted with plastic, shall be connected using a section of tracer wire to maintain continuity. If the existing service is coated steel, see Installation of Test Stations for Cathodic Protection [COR04003] or contact corrosion department for more guidance.

D. Thermite welding of tracer wire to abandoned steel service is only acceptable prior to insertion of the plastic tubing. See Installation of Test Stations for Cathodic Protection [030026-CS].

E. Plastic Mains: The service tracer wire shall be connected to the plastic main tracer wire using item #3 detail A or item #4 (detail B - preferred) in accordance with Installing Wire Connections [COR04004].

F. Coated Steel Mains: Do not connect the tracer wire to the steel main. See <u>Installation of Test Stations for Cathodic Protection [030026-CS]</u> and <u>Installation of Test Stations for Cathodic Protection [COR04003]</u> or contact corrosion department for more guidance.

G. Cast Iron or Bare steel Mains: Do not connect the tracer wire to the main. It is required in LI and MA, and suggested in all other areas to terminate the tracing wire with a 3# anode.

Tracer Wire Installation Notes

H. Install tracer wire in close proximity to the plastic pipe. Approximately 4" to 6" away from the pipe. LI & MA-Above or alongside, UNY- alongside, RI-Under or alongside. Exception: For trenchless pipe installations, the minimum clearance is waived.

I. Maintain separation of approximately 4" from service riser. Do not permanently connect the tracer wire to the

J. For horizontal directional drill installations, use stainless wire, item #2.

K. Tracer wire installed in boxes should allow enough wire to extend 18" to 24" above grade.

L. Verification: upon completion, the installer shall verify the location of the main or service using the tracer wire and locating device and perform a mark out using the conductive method.

M. LI and MA: Required to terminate the tracing wire with a 3# anode. This is to ground the tracer wire and increase signal strength when locating. This practice is recommended in all areas where signal strength is an issue.

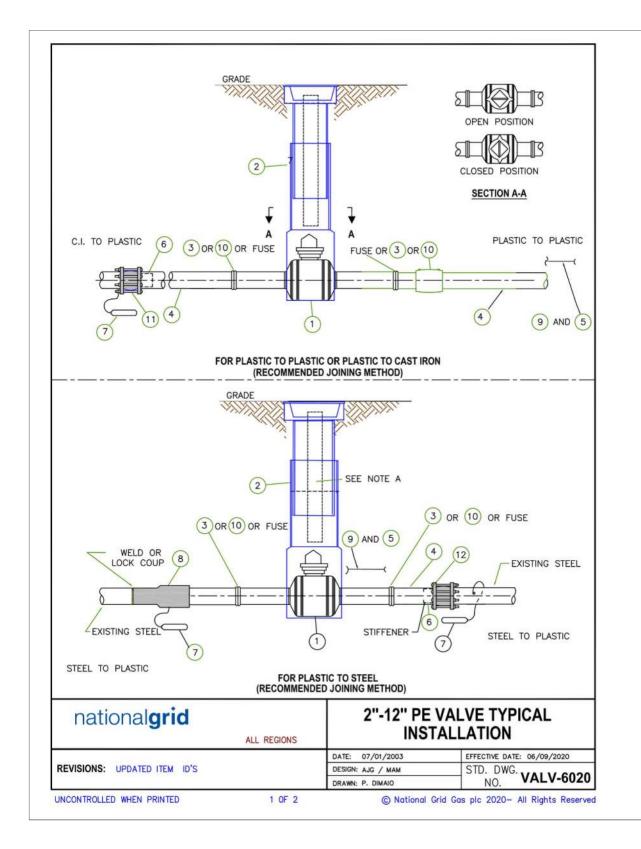
Regional Notes

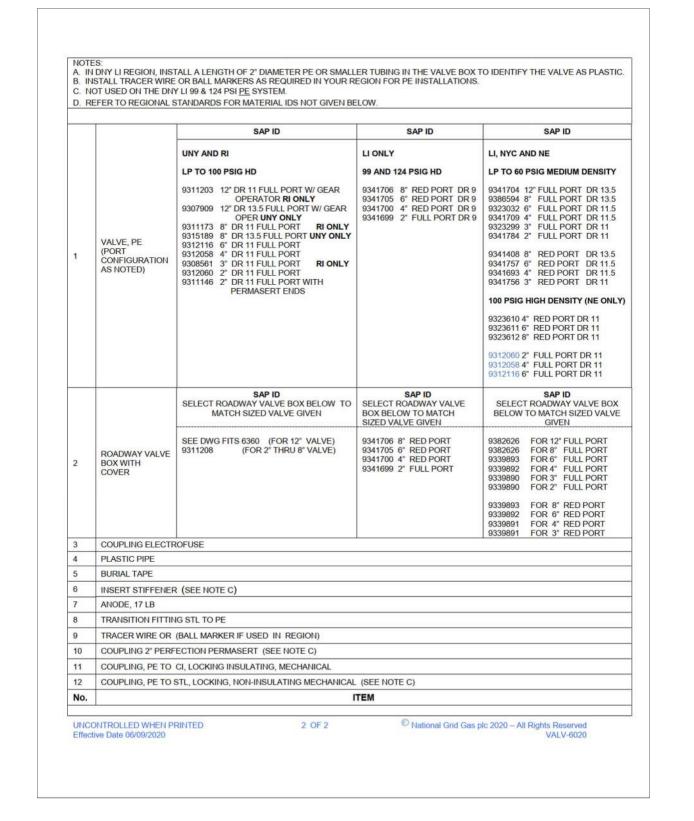
NYC ONLY: refer to Installation of Marker Tapes and EMS Pipeline Locators for Mains and Services [CNST6060-NYC] for installation of electronic marker ball in place of tracer wire.

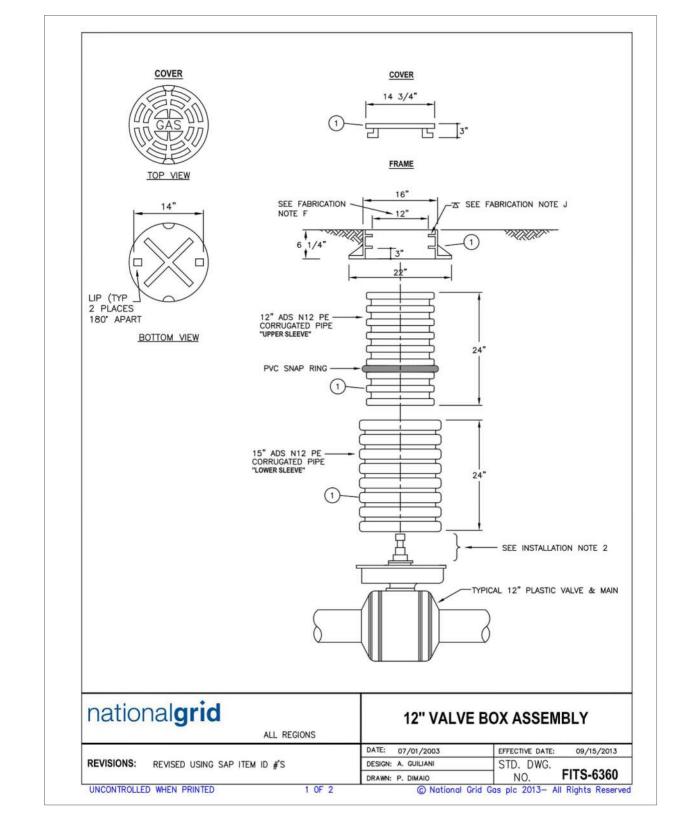
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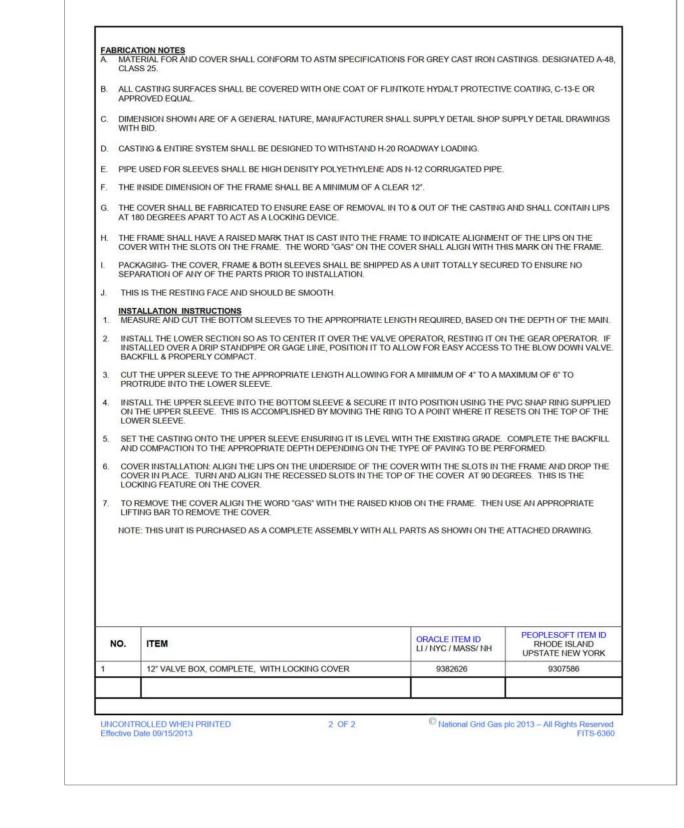
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PROPOSED GAS MAIN REPLACEMENT 1-111 BOARDMAN ST & 131-135 ASHLEY ST BOSTON, MA

C.KOLOD

DWG SIZE

22"X34"

S.KHAFAJI

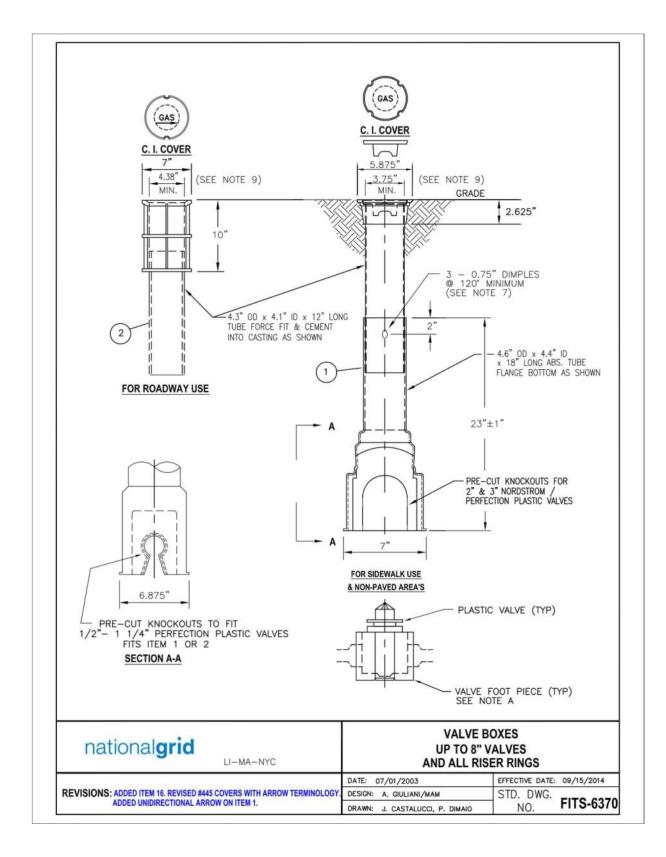
NATIONAL GRID STANDARD CONSTRUCTION DETAILS

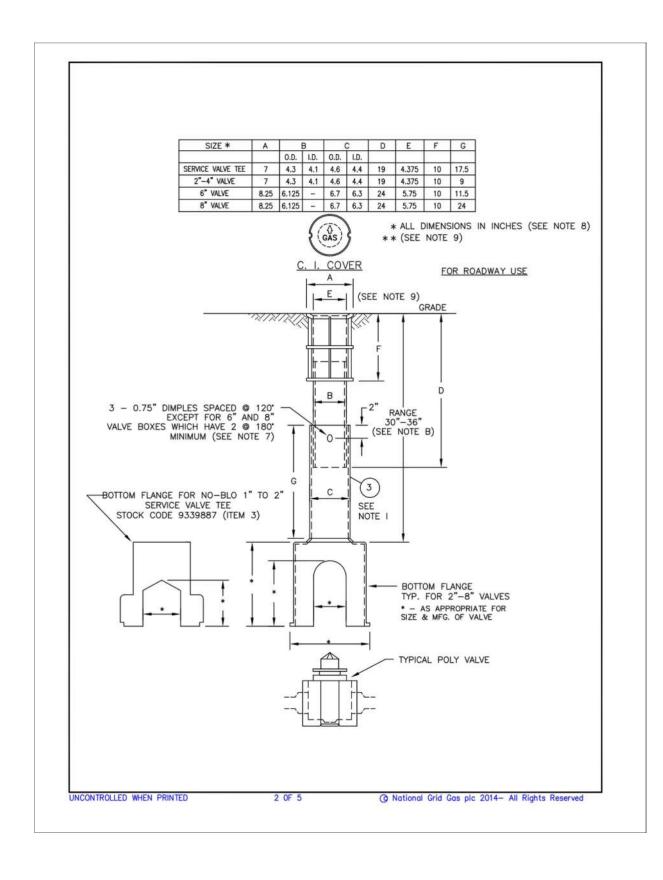
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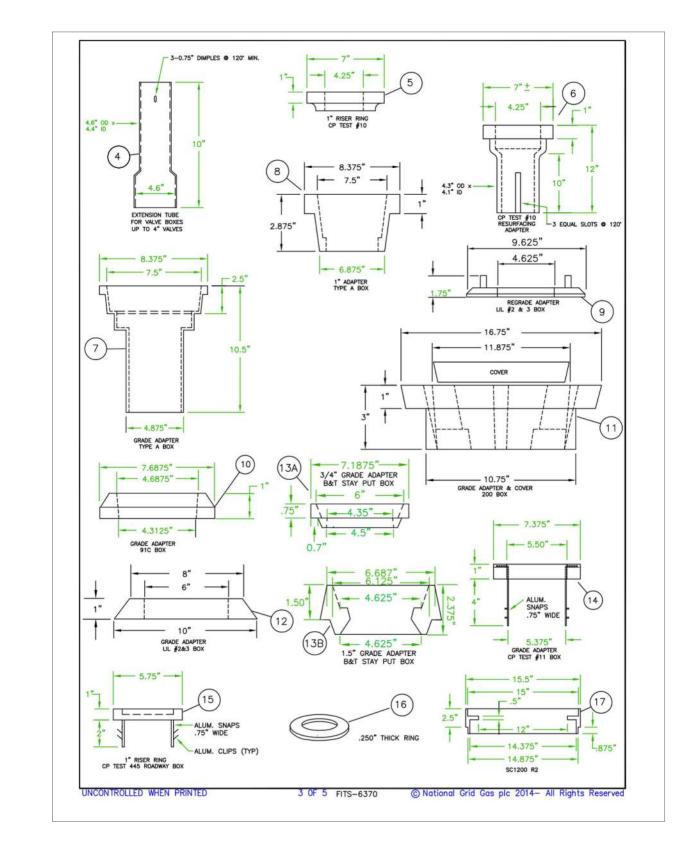
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- VALVE FOOT PIECE TO BE INSTALLED AROUND THE VALVE THEN INSERTED INTO THE BOTTOM FLANGE OF THE VALVE BOX. THE RANGE OF THE VALVE BOX. FROM TOP OF GRADE TO TOP OF VALVE, IS 24" TO 38". FOR DEEPER VALVES USE
- THESE BOXES CAN ALSO BE USED WITH THE APPROPRIATE SIZE STEEL VALVE. IF USED WITH A STEEL VALVE THE "VALVE FOOT PIECE" IS NOT TO BE USED; HOWEVER, PRIOR TO BACKFILLING INSTALL THE LOWER PORTION OF THE VALVE KEY ON THE VALVE OPERATING NUT. THEN PLACE THE LOWER SECTION OF THE BOX ON THE VALVE. WHEN THE BOTTOM SECTION IS BACKFILLED TO WITHIN 6" FROM ITS TOP REMOVE THE VALVE KEY & INSTALL THE TOP SECTION OF THE BOX.
- ITEM 2 SHALL ONLY BE USED IN SIDEWALK AND NON-PAVED, NON TRAFFIC AREA EXCEPT DRIVEWAYS.
- USE ITEM 1 ON MAIN LINE VALVES INSTALLED IN PAVED AND NON PAVED AREAS. AFTER INSTALLATION OF MAIN LINE VALVE & BOX NOTIFY GSO OF COMPLETION.

MANUFACTURING NOTES:

- ALL TOPS & BOTTOMS SHALL BE INTERCHANGEABLE.
- THE TOP OF THE BOX ASSEMBLY SHALL BE FABRICATED SO AS TO FIT INSIDE THE BOTTOM SECTION.
- MATERIAL SHALL CONFORM TO ASTM SPECIFICATIONS FOR GREY CAST IRON CASTINGS, DESIGNATED A48, CLASS 25.
- COVER SHALL CREATE A TIGHT FIT WITH TOP OF CASTING TO PREVENT RATTLING. FOR CODES 00308054 & 00308055 COVER SHALL BE OF VENTED DESIGN. FOR OTHER STOCK CODES THE COVER SHALL INCLUDE A DIRECTIONAL ARROW. THIS SHALL BE DESIGNED TO ALLOW THE ARROW TO BE POSITIONED AT 60 INTERVALS.
- ALL SURFACES SHALL BE COVERED WITH ONE COAT OF FLINTKOTE HYDALT PROTECTIVE COATING, C-13-E OR APPROVED
- THE PLASTIC USED FOR THE TUBES SHALL BE PROTECTED FROM UV RAYS & AND HAVE THE PROPER INHIBITORS TO PROTECT FROM BRITTLENESS AT ZERO DEGREES.
- DIMPLES SHALL BE FORMED SO AS TO EXERT ENOUGH PRESSURE ON INNER TUBE TO SUPPORT ENTIRE ASSEMBLY IN EXTENDED POSITION.
- DIMENSIONAL TOLERANCES: MANUFACTURE SHALL ADHERE TO THE FOLLOWING DIMENSIONAL TOLERANCES ALL PLASTIC TUBING SHALL BE +/- 0.015° TO THOSE SHOWN ON THE DRAWING. ALL CASTINGS SHALL BE MANUFACTURED TO WITHIN +/- 0.0625" TO THE DIMENSIONS SHOWN ON THE DRAWING.
- DIMENSIONS SHALL BE CONSISTENT THROUGHOUT THE CASTING.
- 0. TOP SECTION OF VALVE BOX SHALL HAVE THE PLASTIC TUBE FORCED FIT AND CEMENTED INTO THE CASTING. THIS JOINT SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 20 POUNDS.
- . MANUFACTURER SHALL SUBMIT SAMPLES TO THE ENGINEER FOR APPROVAL PRIOR TO BID ACCEPTANCE.
- STREET BOXES SHALL BE DESIGNED TO HANDLE TO AN H-20 ROADWAY LOADING.
- TOP FLANGE OF ROADWAY BOX SHALL BE FLAT AND WIDE ENOUGH TO ACCOMMODATE A 3/8" METAL NUMBER STAMP EMBEDDED INTO THE CASTING BY CKD IN THE FIELD.
- 14. THE VALVE FOOT PIECE SHALL BE DESIGNED TO FIT THE FOLLOWING MANUFACTURER'S VALVES. 1/2" 1 1/2" PERFECTION 2" NORDSTROM OR PERFECTION UNIVERSAL FOOT PC FOR BOTH MFG. 4" 8" NORDSTROM

National Grid Gas plc 2014 – All Rights Reserved FITS-6370

18	PENTAGON KEY FOR ITEMS 8B AND 11B (NOT SHOWN)	9354644
17	2" REGRADE ADAPTER FOR 12" LOCKING BOX SC1200 R2	9384175
16	VALVE BOX ADAPTER RING, 1/4 INCH THICK X 7-5/8 INCH I.D. X 10-1/2 IN O.D. FLAT RING TO RAISE OLD LEGACY OBSOLETE LILCO ROUND CASTINGS	9353359
15	ONE INCH GRADE ADAPTER & COVER FOR CP TEST#445 ROADWAY BOX - NH ONLY	9383913
	REPLACEMENT COVER FOR LIL #2 BOX - LI ONLY COVER MARKED "GAS" FOR 445 BOX (WITH UNIDIRECTIONAL ARROW) COVER MARKED "GAS" FOR 445 BOX (WITHOUT UNIDIRECTIONAL ARROW) COVER MARKED "GAS" FOR 4" STAY PUT BOX - NYC ONLY COVER MARKED "GAS" FOR #11B BOX COVER MARKED "GAS" FOR #10 BOX RESURFACE REPAIR SLEEVE RING	9339829 9339828 9388350 9339759 9339858 9339762
14	1" REGRADE ADAPTER WITH COVER FOR CP TEST # 11B BOX - SEE NOTE B	9382611
13A 13B	%" REGRADE ADAPTER FOR B&T STAY PUT SERVICE BOX WITH SLOTS NYC ONLY 1-1/2" REGRADE ADAPTER FOR B&T STAY PUT SERVICE BOX WITH SLOTS NYC ONLY	9339800 9339725
12	1" REGRADE ADAPTER FRAME FOR THE LIL# 2 & 3 VALVE BOX. COVER FOR ABOVE (NOT SHOWN) - LI ONLY	9339859 9339860
11B	COVER, REPLACEMENT, LOCKING, MARKED "GAS" FOR EXISTING LOCK TYPE 200 BOX, WITH PENTHEAD BOLT - LI ONLY (NOT SHOWN) COVER, REPLACEMENT, NON-LOCK, MARKED "GAS" FOR EXISTING NON-LOCK TYPE 200 BOX	9384338
11A 11	-LI ONLY (NOT SHOWN) 1" REGRADE ADAPTER FRAME & COVER FOR 200 VALVE BOX - LI ONLY	9339798 9339826
*	2-1/2* REGRADE ADAPTER FOR 200 VALVE BOX. FITS EXISTING COVER. (NOT SHOWN) - LI ONLY	9339799
10	1 " REGRADE ADAPTER & COVER FOR 91C BOX - LI ONLY	9339761
9	1 %" REGRADE ADAPTER FOR LIL 283 BOX - LI ONLY	9339758
8B	COVER, REPLACEMENT, LOCKING, MARKED "GAS" FOR 7-1/2" EXISTING TYPE "A" LOCK VALVE BOXES, WITH PENTHEAD BOLT - LI ONLY (NOT SHOWN)	9339760
8A	COVER, REPLACEMENT, MARKED "GAS" FOR 7-1/2" EXISTING TYPE "A" NON-LOCK VALVE BOXES AND ALL TYPE "A" ADAPTER RINGS - LI ONLY (NOT SHOWN)	9384430
8	1 " REGRADE ADAPTER FOR TYPE "A" VALVE BOX. FITS EXISTING COVER LI ONLY 2 - 1/2" REGRADE ADAPTER FOR TYPE "A" VALVE BOX . 2-1/2 IN MIN TO 8 IN MAX RISE. FITS EXISTING	9339827 9339763
6	COVER LI ONLY 1" REGRADE ADAPTER RING EXTENSION WITH 10" PLASTIC SKIRT TO REPAIR TOPS OF CP TEST #10 BOX	9381407
5	1" REGRADE ADAPTER FOR CP TEST #10 BOX	9339823
4	EXTENSION TUBE – FOR CP TEST #11 BOX	9382619
	EXTENSION TUBE - FOR CP TEST #10 BOX EXTENSION TUBE, FOR CP TEST #558 BOX, 18" LONG – (NOT SHOWN) - NE ONLY	9339824 9383199
	EXTENSION TUBE, FOR CP TEST #334 BOX, 24" LONG - (NOT SHOWN) - NE ONLY	9383198
3	ROADWAY BOX ASSEMBLY AND COVER FOR 8" POLYVALVE CP TEST #118 OR APPV'D EQUAL ROADWAY BOX ASSEMBLY AND COVER FOR 6" POLYVALVE CP TEST 118 OR APPV'D EQUAL ROADWAY BOX ASSEMBLY AND COVER FOR 4" POLYVALVE CP TEST #10 OR APPV'D EQUAL ROADWAY BOX ASSEMBLY AND COVER FOR 2" AND 3" POLYVALVES CP TEST #10 OR APPR'D EQUAL ROADWAY BOX ASSEMBLY AND COVER FOR 2" AND 3" POLYVALVES CP TEST #10 OR APPR'D EQUAL ROADWAY BOX ASSEMBLY AND COVER FOR 1"- 2" MUELLER SERVICE VALVE TEE CP TEST #10 OR APPV'D EQUAL	9339893 9339892 9339891 9339890 9339887
2	ROADWAY SERVICE BOX AND COVER FOR ½" TO 1" PLASTIC VALVE NE ONLY CP TEST #10 OR APPV'D EQUAL	9382767
1	SIDEWALK VALVE BOX ASSEMBLY AND UNIDIRECTIONAL ARROW COVER FOR ½" TO 1 ½" PLASTIC VALVES CP TEST #445 OR APPR'D EQUAL SIDEWALK VALVE BOX ASSEMBLY AND UNIDIRECTIONAL ARROW COVER FOR 2" TO 3" PLASTIC VALVES CP TEST #445 OR APPROVED EQUAL	9339888 9339889
No.	ITEM	N.G. CODE No.
	BILL OF MATERIAL	

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PROPOSED GAS MAIN REPLACEMENT 1-111 BOARDMAN ST & 131-135 ASHLEY ST BOSTON, MA

C.KOLOD

DWG SIZE

22"X34" S.KHAFAJI

NATIONAL GRID STANDARD CONSTRUCTION DETAILS DESIGNER ENGINEER DATE: ASSET I.D. W.O. NO.:

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ATTACHMENT **C**

ABUTTER INFORMATION

300-ft Abutters List

PID	FULL ADDRESS	CITY	ZIP CODE		ADDRESSEE	MAILING ADDRESS	MAILING CITY	MAILING STATE	CODE
0526000 1752000	16 BOARDMAN ST WHITBY ST	EAST BOSTON EAST BOSTON	02128 02128	16 BOARDMAN STREET CONDOMINIUM TRUST 16 WHITBY STREET LLC		16 BOARDMAN ST 15 CYPRESS ST STE 301	EAST BOSTON NEWTON	MA MA	02128 02459
1753000	16 WHITBY ST	EAST BOSTON	02128	16 WHITBY STREET LLC		15 CYPRESS ST STE 301	NEWTON	MA	02459
1748000	WHITBY ST	EAST BOSTON	02128	29-31 BOARDMAN STREET REALTY TRUST		80 ASHLEY ST	EAST BOSTON	MA	2128
1727000		EAST BOSTON	02128	2F7B DEVELOPMENT LLC		50 FRANKLIN ST SUITE 400	BOSTON	MA	02110
1726000 1800000		EAST BOSTON EAST BOSTON	02128 02128	2F7B DEVELOPMENT LLC 33 LEYDEN STREET LLC		50 FRANKLIN ST SUITE 400 20C DELCARMINE ST SUITE 101	BOSTON WAKEFIELD	MA MA	02110 01880
1800000		EAST BOSTON	02128	35 LEYDEN STREET LLC	C/O 35 LEYDEN STREET LLC	1 CREST RD	WELLESLEY	MA	01880
1737000	41 BOARDMAN ST	EAST BOSTON	02128	41 BOARDMAN STREET	-,	41 BOARDMAN ST	EAST BOSTON	MA	02128
1724000	6 FORD ST	EAST BOSTON	02128	6-8 FORD STREET LLC		164 COURT RD	WINTHROP	MA	02152
1723000	8 FORD ST	EAST BOSTON	02128	6-8 FORD STREET LLC		164 COURT RD	WINTHROP	MA	02152
1792000 1638000	95 BOARDMAN ST 951 SARATOGA ST	EAST BOSTON EAST BOSTON	02128 02128	95 BOARDMAN STREET CONDOMINIUM TRUST 951 SARATOGA LLC		95 BOARDMAN ST 900 CUMMINGS CENTER SUITE 215U	EAST BOSTON BEVERLY	MA MA	02128 01915
0528000	970 SARATOGA ST	EAST BOSTON	02128	970 SARATOGA LLC		50 FRANKLIN ST SUITE 400	BOSTON	MA	01915
2047000		EAST BOSTON	02128	ABBOTT PAUL CARMEN		30 LEYDEN ST	EAST BOSTON	MA	02128
1749000	30 WHITBY ST 30	EAST BOSTON	02128	ACONE LYNNETTE GARCIA		30 WHITBY ST #30	E BOSTON	MA	02128
1657000	962 BENNINGTON ST	EAST BOSTON	02128	ACOSTA SANTIGAGO		962 BENNINGTON ST	EAST BOSTON	MA	02128
1741000 1803000	53 BOARDMAN ST 49 LEYDEN ST 2	EAST BOSTON EAST BOSTON	02128 02128	ADRIANO REALTY TRUST ALI SYED HASAN		53 BOARDMAN ST 49 LEYDEN ST, UNIT 2	EAST BOSTON EAST BOSTON	MA MA	02128 02128
0529000	964 SARATOGA ST	EAST BOSTON	02128	ALTAMIRA BANQUETS LLC		964 SARATOGA ST	EAST BOSTON	MA	02128
1794010	39 LEYDEN ST 5	EAST BOSTON	02128	ANG JOEL Y		39 LEYDEN ST, UNIT 5	EAST BOSTON	MA	02128
1791000	93 BOARDMAN ST	EAST BOSTON	02128	ANGJELIU ERION		93 BOARDMAN ST	EAST BOSTON	MA	02128
778000	91 ASHLEY ST	EAST BOSTON	02128	APARECIDO FAMILY TRUST	C/O ELIAS APARECIDO	91 ASHLEY ST	EAST BOSTON	MA	02128
L656000 L654000	964 BENNINGTON ST	EAST BOSTON EAST BOSTON	02128 02128	APONTE DIANA APPONTE DIANA		964 BENNINGTON ST 353 BROADWAY	EAST BOSTON REVERE	MA MA	02128 02151
2040000	968 BENNINGTON ST 54 LEYDEN ST B3	EAST BOSTON	02128	BAHLOUL ISSAM M TS		54 LEYDEN ST #B3	EAST BOSTON	MA	02131
653000		EAST BOSTON	02128	BELLO LUCY A		970 BENNINGTON ST	EAST BOSTON	MA	02128
797000		EAST BOSTON	02128	BOSTON HOUSING AUTH		52 CHAUNCY ST	BOSTON	MA	02111
530000		EAST BOSTON	02128	BURRI STEVEN M		960 SARATOGA ST	EAST BOSTON	MA	02128
754000		EAST BOSTON	02128	CALLEJAS JOSE A		444 SUMNER ST	EAST BOSTON	MA	02128
051000 739000	14 LEYDEN ST 47 BOARDMAN ST	EAST BOSTON EAST BOSTON	02128 02128	CAPEZZUTO RICHARD L CARR JOSEPH LEICESTER		14 LEYDEN ST 47 BOARDMAN ST	EAST BOSTON EAST BOSTON	MA MA	02128 02128
33000	946 SARATOGA ST	EAST BOSTON	02128	CB EQUITIES SARATOGA STREET LLC		6 VELMA RD	WAKEFIELD	MA	02128
552000	972 BENNINGTON ST	EAST BOSTON	02128	CHRISTOPHER ALICE		972 BENNINGTON ST	E BOSTON	MA	02128
547000	971 SARATOGA ST	EAST BOSTON	02128	CIAMPA FRANK TS	C/O FRANK CIAMPA	8 LINDA LANE	NAHANT	MA	01908
745000	100 ASHLEY ST	EAST BOSTON	02128	CIANO ANNA		100 ASHLEY ST	EAST BOSTON	MA	02128
790001	BOARDMAN ST ASHLEY ST	EAST BOSTON EAST BOSTON	02128 02128	CITY OF BOSTON COLANTUONI JOSEPH ETAL	C/O ROSE M COLANTUONI	BOARDMAN 145 ASHLEY ST	EAST BOSTON EAST BOSTON	MA MA	02128 02128
784000	ASHLEY ST 115 ASHLEY ST	EAST BOSTON	02128	COLANTUONI JOSEPH ETAL COLARUSSO MICHAEL TS	C/O ROSE M COLANTUONI C/O MICHAEL COLARUSSO TS	145 ASHLEY ST 990 HUMPHREY ST	SWAMPSCOTT	MA	02128
	92 ASHLEY ST	EAST BOSTON	02128	COVIELLO GIUSEPPE	.,	37 BOARDMAN ST	EAST BOSTON	MA	02128
736000	37 BOARDMAN ST	EAST BOSTON	02128	COVIELLO GIUSEPPE		37 BOARDMAN ST	E BOSTON	MA	02128
782000	105 ASHLEY ST	EAST BOSTON	02128	CUASCUT OMAR		105 ASHLEY ST	EAST BOSTON	MA	02128
540000	955 SARATOGA ST 2	EAST BOSTON	02128	CUNNINGHAM KENNETH		955 SARATOGA ST #2	EAST BOSTON	MA	02128
747000 785000	ASHLEY ST 125 ASHLEY ST	EAST BOSTON EAST BOSTON	02128 02128	DELEO ROBERT DEMAYO ROBERT A ETAL		80 ASHLEY ST 125 ASHLEY ST	EAST BOSTON EAST BOSTON	MA MA	02128 02128
762000	21 WHITBY ST	EAST BOSTON	02128	DESA PATRICE M	C/O PATRICE DESA	21 WHITBY ST	EAST BOSTON	MA	02128
10000	79 LEYDEN ST	EAST BOSTON	02128	DICICCO ANTHONY R	,	79 LEYDEN ST	EAST BOSTON	MA	02128
30000	15 BOARDMAN ST	EAST BOSTON	02128	DONIS FERNANDO U	C/O FERNANDO DONIS	15 BOARDMAN ST	EAST BOSTON	MA	02128
796000	111 BOARDMAN ST	EAST BOSTON	02128	DONNELLY JOHN ETAL		111 BOARDMAN	EAST BOSTON	MA	02128
549000 524000	975 977 SARATOGA ST 974 972 SARATOGA ST	EAST BOSTON EAST BOSTON	02128 02128	EB BH HOLDINGS LLC EB WHITE DIAMOND LLC		50 FRANKLIN ST, UNIT 400 50 FRANKLIN STREET SUITE 400	BOSTON BOSTON	MA MA	02110 02110
781000		EAST BOSTON	02128	FERNANDES ELIZANDRA		101 ASHLEY ST	E BOSTON	MA	02110
641000		EAST BOSTON	02128	GALDAMEZ ELIAS		957 SARATOGA ST	EAST BOSTON	MA	02128
646000	967 SARATOGA ST	EAST BOSTON	02128	GALLUCCI RICHARD P		967 SARATOGA ST	EAST BOSTON	MA	02128
987000	GLADSTONE ST	EAST BOSTON	02128	GLADSTONE STREET LLC		1222 BENNINGTON ST	EAST BOSTON	MA	02128
991000 983000	GLADSTONE ST GLADSTONE ST	EAST BOSTON EAST BOSTON	02128 02128	GLADSTONE STREET LLC GLADSTONE STREET LLC		1222 BENNINGTON ST 1222 BENNINGTON ST	EAST BOSTON EAST BOSTON	MA MA	02128 02128
986000	GLADSTONE ST	EAST BOSTON	02128	GLADSTONE STREET LLC		1222 BENNINGTON ST	EAST BOSTON	MA	02128
992000	GLADSTONE ST	EAST BOSTON	02128	GLADSTONE STREET LLC		1222 BENNINGTON ST	EAST BOSTON	MA	02128
989000	GLADSTONE ST	EAST BOSTON	02128	GLADSTONE STREET LLC	C/O GALDSTONE STREET LLC	1222 BENNINGTON ST	EAST BOSTON	MA	02128
990000	GLADSTONE ST	EAST BOSTON	02128	GLADSTONE STREET LLC		1222 BENNINGTON ST	EAST BOSTON	MA	02128
060000	GLADSTONE ST	EAST BOSTON EAST BOSTON	02128	GLADSTONE STREET LLC GLADSTONE STREET LLC	C/O GALDSTONE STREET LLC	1222 BENNINGTON ST	EAST BOSTON	MA	02128
984000 985000	GLADSTONE ST GLADSTONE ST	EAST BOSTON	02128 02128	GLADSTONE STREET LLC GLADSTONE STREET LLC		1222 BENNINGTON ST 1222 BENNINGTON ST	EAST BOSTON EAST BOSTON	MA MA	02128 02128
988000	GLADSTONE ST	EAST BOSTON	02128	GLADSTONE STREET LLC		1222 BENNINGTON ST	EAST BOSTON	MA	02128
731000	19 BOARDMAN ST	EAST BOSTON	02128	GONZALEZ MARVIN E		483 POPLAR ST	ROSLINDALE	MA	02131
755000	10 WHITBY ST	EAST BOSTON	02128	HERNANDEZ OSCAR A		10 WHITBY ST	E BOSTON	MA	02128
42000	959 SARATOGA ST	EAST BOSTON	02128	HERRERA MARGARITA L		959 SARATOGA ST	E BOSTON	MA	02128
799000	29 LEYDEN ST 978 C 976A SARATOGA ST	EAST BOSTON EAST BOSTON	02128 02128	HS LAND TRUST LLC TS IRMAS LLC	C/O HS LAND TRUST LLC	404 S HUNTINGTON AV 915 CHESTNUT ST	JAMAICA PLAIN NEWTON	MA MA	02130 02468
29000	11 BOARDMAN ST	EAST BOSTON	02128	JACOBSON DANIEL E		2 BRIGHAM ST UNIT 3	BOSTON	MA	02468
31000	958 SARATOGA ST	EAST BOSTON	02128	JANOUDI RABEH		958 SARATOGA ST	EAST BOSTON	MA	02128
87000	135 ASHLEY ST	EAST BOSTON	02128	KAREN S PEARSON REVOCABLE TRUST		135 ASHLEY ST	EAST BOSTON	MA	02128
000887	ASHLEY ST	EAST BOSTON	02128	KAREN S PEARSON REVOCABLE TRUST		135 ASHLEY ST	EAST BOSTON	MA	02128
52000 649001	10 LEYDEN ST 980 978 BENNINGTON ST	EAST BOSTON EAST BOSTON	02128 02128	KNOX LINDA LAMPREA JAIRO		10 LEYDEN ST 978 BENNINGTON ST	EAST BOSTON EAST BOSTON	MA MA	02128 02128
	953 SARATOGA ST	EAST BOSTON	02128	LAZO MANUEL A		953 SARATOGA ST	E BOSTON	MA	02128
	36 LEYDEN ST	EAST BOSTON	02128	LDRE CORP		29 GERALD RD	MARBLEHEAD	MA	01945
	935 935R SARATOGA ST	EAST BOSTON	02128	LOMBARDO VINCENT J TS	C/O BENNINGTON REALTY	6 BILLINGS ST	RANDOLPH	MA	02368
	976 BENNINGTON ST	EAST BOSTON	02128	LONG BEACH REALTY II CORP		104-18 METROPOLITAN AV	FOREST HILLS	NY	11375
	71 LEYDEN ST 9 WHITBY ST	EAST BOSTON EAST BOSTON	02128 02128	LOPEZ GERMAN F MADRID ELVIS A	C/O ELVIS A MADRID	71 LEYDEN ST 1112 BENNINGTON ST	E BOSTON EAST BOSTON	MA MA	02128 02128
	99 ASHLEY ST	EAST BOSTON	02128	MADRIGAL ALBA	C/O ELVIS A IVIADRID	99 ASHLEY ST	EAST BOSTON	MA	02128
48000	26 LEYDEN ST	EAST BOSTON	02128	MAE NORMA		26 LEYDEN ST	EAST BOSTON	MA	02128
34000	29 BOARDMAN ST	EAST BOSTON	02128	MAGNOLIA BOARDMAN LLC		146 BUNKER HILL ST	CHARLESTOWN	MA	02129
35000	33 BOARDMAN ST	EAST BOSTON	02128	MAGNOLIA BOARDMAN LLC		146 BUNKER HILL ST	CHARLESTOWN	MA	02129
27000	FORD ST	EAST BOSTON	02128	MARQUARDO DONNA		980 SARATOGA ST	E BOSTON	MA	02128
22000	980 A982 SARATOGA ST 4 FORD ST	EAST BOSTON FAST BOSTON	02128 02128	MARQUARDO DONNA MARTINEZ MARIA		980 SARATOGA ST 4 FORD ST	E BOSTON F BOSTON	MA MA	02128 02128
	101 LEYDEN ST	EAST BOSTON	02128	MAZZARELLA MARIA A		101 LEYDEN ST	EAST BOSTON	MA	02128
79000		EAST BOSTON	02128	MAZZARELLA MARIA A		95 ASHLEY ST	EAST BOSTON	MA	02128
22000	415 WM F MCCLELLAN HW	EAST BOSTON	02128	MC-EB REALTY LLC	C/O FIRST BRISTOL CORPORATION	PO BOX 2516	FALL RIVER	MA	02722
90000	145 ASHLEY ST	EAST BOSTON	02128	MUNOZ STEVEN		145 ASHLEY ST	EAST BOSTON	MA	02128
59000	958 BENNINGTON ST	EAST BOSTON	02128	NINE-58 BENNINGTON STREET	C/O RITA M ROBERTO	282 BENNINGTON ST	EAST BOSTON	MA	02128
98000	23 LEYDEN ST	EAST BOSTON	02128	OBRIEN MARK P	C/O MARK OBRIEN	23 LEYDEN ST	EAST BOSTON	MA MA	02128
43000 42010	61 BOARDMAN ST BOARDMAN ST	EAST BOSTON EAST BOSTON	02128 02128	OLIVER ANN LLC MASS LLC OLIVER ANN LLC MASS LLC		61 BOARDMAN ST 61 BOARDMAN ST	EAST BOSTON EAST BOSTON	MA MA	02128 02128
51000	974 R BENNINGTON ST	EAST BOSTON	02128	ONE 40 VICTORY RD LLC MASS LLC	C/O CHARLES E DIPRIMA	440 SARAOGA ST	EAST BOSTON	MA	02128
32000	956 SARATOGA ST	EAST BOSTON	02128	ORIENT HGTS CIVIC CLUB	.,	956 SARATOGA	EAST BOSTON	MA	02128
57020		EAST BOSTON	02128	PEDONE PHILIP A	C/O PHILIP PEDONE	12 FORD ST	EAST BOSTON	MA	02128
26000	11 FORD ST	EAST BOSTON	02128	PIZZI PHYLLIS F		11 FORD ST	EAST BOSTON	MA	02128
	67 LEYDEN ST	EAST BOSTON	02128	POLCARO VINCENZO		67 LEYDEN ST	EAST BOSTON	MA	02128
	9 BOARDMAN ST	EAST BOSTON	02128	PORFIDO STEPHEN W		9 BOARDMAN ST	E BOSTON	MA	02128
			02128	PUERTA CARLOS		965 SARATOGA ST	EAST BOSTON	MA	02128
545000 555000	965 SARATOGA ST 966 BENNINGTON ST	EAST BOSTON EAST BOSTON	02128	QUICENO JOSE		966 BENNINGTON ST	EAST BOSTON	MA	02128

1-111 Boardman Street and 131-135 Ashley Street Request for Determination of Applicability

101732000	23 BOARDMAN ST	EAST BOSTON	02128	RAFFO JOHN * GEORGE ETAL		23 BOARDMAN ST	EAST BOSTON	MA	02128
101789000	141 ASHLEY ST	EAST BOSTON	02128	RICHARDS JAMES M TS	C/O JAMES M RICHARDS	2 LEONARD RD	PEABODY	MA	01960
101658000	960 BENNINGTON ST	EAST BOSTON	02128	ROBERTO RITA M TS	C/O RITA ROBERTO	282 BENNINGTON ST	EAST BOSTON	MA	02128
101812000	87 LEYDEN ST	EAST BOSTON	02128	RODRIGUEZ ROBERTO		87 LEYDEN ST	E BOSTON	MA	02128
101764000	54 ASHLEY ST	EAST BOSTON	02128	ROMAN CATH ARCH BOSTON		54 ASHLEY	EAST BOSTON	MA	02128
101761000	WHITBY ST	EAST BOSTON	02128	ROMAN CATH ARCH OF BOS		59 ASHLEY ST	EAST BOSTON	MA	02128
101811000	83 LEYDEN ST	EAST BOSTON	02128	ROSSI KIM C ETAL		83 LEYDEN	EAST BOSTON	MA	02128
101648000	973 SARATOGA ST	EAST BOSTON	02128	RUGGIERO JOSEPH L III	C/O JOSEPH L RUGGIERO III	1225 BENNINGTON ST	EAST BOSTON	MA	02128
101733000	25 BOARDMAN ST	EAST BOSTON	02128	SACCO CAROL A		25 BOARDMAN ST	E BOSTON	MA	02128
101643000	961 SARATOGA ST	EAST BOSTON	02128	SALVADOR FLOR Y		961 SARATOGA ST	E BOSTON	MA	02128
101637001	945 SARATOGA ST	EAST BOSTON	02128	SALVAGGIO ANTHONY M		10 MONSON DR	PEABODY	MA	01960
101625000	7 FORD ST	EAST BOSTON	02128	SCAPICCHIO PAUL J TS	C/O PAUL SCAPICCHIO	85 MEREDITH CIRCLE	MILTON	MA	02186
101814000	93 LEYDEN ST	EAST BOSTON	02128	SCARFO DAMIARO ETAL	C/O DAMIARO SCARFO	104 LAKE SHORE RD	BOXFORD	MA	01921
101742000	BOARDMAN ST	EAST BOSTON	02128	SCHETTINO JOSEPH ANTHONY		8 PAINE ST	WINTHROP	MA	02152
100549001	225 WM F MCCLELLAN HW	EAST BOSTON	02128	SLUMBER TIME LLC	ATT: LISA ADE	1000 MARKET ST BLDG #1	PORTSMOUTH	NH	03801
102279000	BOARDMAN ST	EAST BOSTON	02128	SONS DIVINE PROV INC		BOARDMAN	EAST BOSTON	MA	02128
101757010	10 FORD ST	EAST BOSTON	02128	STORY JASOB		10 FORD ST	EAST BOSTON	MA	02128
102049000	22 LEYDEN ST	EAST BOSTON	02128	SUAREZ CARMEN D		62 FLORITE DR	FRAMINGHAM	MA	01701
101644000	963 SARATOGA ST	EAST BOSTON	02128	TALLUTO ROCCO		963 SARATOGA ST	EAST BOSTON	MA	02128
101786000	131 ASHLEY ST	EAST BOSTON	02128	THIRTY FOUR VICTORY ROAD LLC A MASS LLC	C/O 34 VICTORY ROAD LLC	440 SARATOGA STREET	BOSTON	MA	02128
101809000	75 LEYDEN ST	EAST BOSTON	02128	THIRTY FOUR VICTORY ROAD LLC MASS LLC	C/O 34 VICTORY ROAD LLC	440 SARATOGA ST	E BOSTON	MA	02128
102050000	18 LEYDEN ST	EAST BOSTON	02128	THOMPSON PATRICIA ANN		18 LEYDEN ST	EAST BOSTON	MA	02128
101740000	49 BOARDMAN ST	EAST BOSTON	02128	VETTER BRITTANY E		22 RADCLIFFE RD	SOMERVILLE	MA	02145
101763000	70 ASHLEY ST	EAST BOSTON	02128	VINCENZO M GUARINO IRREVOCABLE TRUST		49 STEVENS ST	REVERE	MA	02151
101813000	91 LEYDEN ST	EAST BOSTON	02128	WHEELER ADAM		91 LEYDEN ST	EAST BOSTON	MA	02128
101806000	63 65 LEYDEN ST	EAST BOSTON	02128	WILLIAMS SETH A		1 CHELSEA TERRACE #1	EAST BOSTON	MA	02128





AFFIDAVIT OF SERVICE FOR ABUTTER NOTIFICATION

Under the Massachusetts Wetlands Protection Act and Boston Wetlands Ordinance

one we	hereby certify under pains and penalties of perjury that that at least ek prior to the public hearing, I gave notice to abutters in compliance with the second ph of Massachusetts General Laws Chapter 131, section 40, and the DEP Guide to Abutter tion dated April 8, 1994, in connection with the following matter:
	A was filed under the Massachusetts Wetlands Protection Act and/or the Boston Wetlands Ordinance by for
	located at
	atter Notification For, the list of abutters to whom it was given, and their addresses are d to this Affidavit of Service.
me	
Name	 Date



BABEL NOTICE

English:

IMPORTANT! This document or application contains **important information** about your rights, responsibilities and/or benefits. It is crucial that you understand the information in this document and/or application, and we will provide the information in your preferred language at no cost to you. If you need them, please contact us at cc@boston.gov or 617-635-3850.

Spanish:

¡IMPORTANTE! Este documento o solicitud contiene <u>información importante</u> sobre sus derechos, responsabilidades y/o beneficios. Es fundamental que usted entienda la información contenida en este documento y/o solicitud, y le proporcionaremos la información en su idioma preferido sin costo alguno para usted. Si los necesita, póngase en contacto con nosotros en el correo electrónico cœboston.gov o llamando al 617-635-3850.

Haitian Creole:

AVI ENPÒTAN! Dokiman oubyen aplikasyon sa genyen <u>enfòmasyon ki enpòtan</u> konsènan dwa, responsablite, ak/oswa benefis ou yo. Li enpòtan ke ou konprann enfòmasyon ki nan dokiman ak/oubyen aplikasyon sa, e n ap bay enfòmasyon an nan lang ou prefere a, san ou pa peye anyen. Si w bezwen yo, tanpri kontakte nou nan <u>cc@boston.gov</u> oswa 617-635-3850.

Traditional Chinese:

非常重要!這份文件或是申請表格包含關於您的權利,責任,和/或福利的重要信息。請您務必完全理解 這份文件或申請表格的全部信息,這對我們來說十分重要。我們會免費給您提供翻譯服務。如果您有需要 請聯糸我們的郵箱 cc@boston.gov 電話# 617-635-3850..

Vietnamese:

QUAN TRỌNG! Tài liệu hoặc đơn yêu cầu này chứa **thông tin quan trọng** về các quyền, trách nhiệm và/hoặc lợi ích của bạn. Việc bạn hiểu rõ thông tin trong tài liệu và/hoặc đơn yêu cầu này rất quan trọng, và chúng tôi sẽ cung cấp thông tin bằng ngôn ngữ bạn muốn mà không tính phí. Nếu quý vị cần những dịch vụ này, vui lòng liên lạc với chúng tôi theo địa chỉ **cc@boston.gov** hoặc số điện thoại 617-635-3850.

Simplified Chinese:

非常重要!这份文件或是申请表格包含关于您的权利,责任,和/或福利的重要信息。请您务必完全理解这份文件或申请表格的全部信息,这对我们来说十分重要。我们会免费给您提供翻译服务。如果您有需要请联糸我们的邮箱 <u>cc@boston.gov</u> 电话# 617-635-3850.

CITY of BOSTON

Cape Verdean Creole:

INPURTANTI! Es dukumentu ó aplikason ten <u>informason inpurtanti</u> sobri bu direitus, rasponsabilidadis i/ó benefisius. Ê krusial ki bu intendi informason na es dukumentu i/ó aplikason ó nu ta da informason na língua di bu preferênsia sen ninhun kustu pa bó. Si bu prisiza del, kontata-nu na cc@boston.gov ó 617-635-3850.

Arabic:

مهم! يحتوي هذا المستند أو التطبيق على معلومات مهمة حول حقوقك ومسؤولياتك أو فوائدك. من الأهمية أن تفهم المعلومات الواردة في هذا المستند أو التطبيق. سوف نقدم المعلومات بلغتك المفضلة دون أي تكلفة عليك. إذا كنت في حاجة إليها، يرجى الاتصال بنا على cc@boston.gov أو.635-3850 أو.cd

Russian:

ВАЖНО! В этом документе или заявлении содержится **важная информация** о ваших правах, обязанностях и/или льготах. Для нас очень важно, чтобы вы понимали приведенную в этом документе и/или заявлении информацию, и мы готовы бесплатно предоставить вам информацию на предпочитаемом вами языке. Если Вам они нужны, просьба связаться с нами по адресу электронной почты <u>cc@boston.gov</u>, либо по телефону 617-635-3850. Portuguese:

IMPORTANTE! Este documento ou aplicativo contém <u>Informações importantes</u> sobre os seus direitos, responsabilidades e/ou benefícios. É importante que você compreenda as informações contidas neste documento e/ou aplicativo, e nós iremos fornecer as informações em seu idioma de preferência sem nenhum custo para você. Se precisar deles, fale conosco: <u>cc@boston.gov</u> ou 617-635-3850.

French:

IMPORTANT! Ce document ou cette demande contient des <u>informations importantes</u> concernant vos droits, responsabilités et/ou avantages. Il est essentiel que vous compreniez les informations contenues dans ce document et/ou cette demande, que nous pouvons vous communiquer gratuitement dans la langue de votre choix. Si vous en avez besoin, veuillez nous contacter à <u>cc@boston.gov</u> ou au 617-635-3850.













NOTIFICATION TO ABUTTERS BOSTON CONSERVATION COMMISSION

In accordance with the Massachusetts Wetlands Protection Act, Massachusetts General Laws Chapter 131, Section 40, and the Boston Wetlands Ordinance, you are hereby notified as an abutter to a project filed with the Boston Conservation Commission. Request for Determination of Applicability _____ has filed a Notice of Intent with the Boston Conservation Commission seeking permission to alter an Area Subject to Protection under the Wetlands Protection Act (General Laws Chapter 131, section 40) and Boston Wetlands Ordinance. B. The address of the lot where the activity is proposed is ______. C. The project involves _____ Request for Determination of Applicability
D. Copies of the Notice of Intent may be obtained by contacting the Boston Conservation Commission at CC@boston.gov. Request for Determination of Applicability
E. Copies of the Notice of Intent may be obtained from _____ by contacting them at _____, between the hours of ____, ___, ___. F. In accordance with the Chapter 20 of the Acts of 2021, the public hearing will take place virtually at https://zoom.us/j/6864582044. If you are unable to access the internet, you can call 1-929-205-6099, enter Meeting ID 686 458 2044 # and use # as your participant ID. G. Information regarding the date and time of the public hearing may be obtained from the **Boston** Conservation Commission by emailing CC@boston.gov or calling (617) 635-3850 between the hours of 9 AM to 5 PM, Monday through Friday. NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the Boston Herald. NOTE: Notice of the public hearing, including its date, time, and place, will be posted on www.boston.gov/public-notices and in Boston City Hall not less than forty-eight (48) hours in advance. If you would like to provide comments, you may attend the public hearing or send written comments to CC@boston.gov or Boston City Hall, Environment Department, Room 709, 1 City Hall Square, Boston, MA 02201 NOTE: If you would like to provide comments, you may attend the public hearing or send written comments to CC@boston.gov or Boston City Hall, Environment Department, Room 709, 1 City Hall Square, Boston, MA 02201 NOTE: You also may contact the Boston Conservation Commission or the Department of Environmental Protection Northeast Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call: the Northeast Region: (978) 694-3200.

CC@boston.gov by 12 PM the day before the hearing.

NOTE: If you plan to attend the public hearing and are in need of interpretation, please notify staff at



COUNTY OF SUFFOLK COMMONWEALTH OF MASSACHUSETTS

February 25, 2022

This is to certify that the **yellow-highlighted text within the translation** is, to the best of my knowledge and belief, a true and accurate translation from English into Spanish of the attached document:

Spanish Abutter Notification Form

Linguistic Systems, Inc. adheres to an ISO-certified quality management system that ensures best practices are always followed in the selection of linguists skilled in both the languages and subject matters necessary for every translation.

Jessica Riley Project Manager Linguistic Systems





NOTIFICACIÓN PARA PROPIETARIOS Y/O VECINOS COLINDANTES COMISIÓN DE CONSERVACIÓN DE BOSTON

De conformidad con la Ley de protección de los humedales de Massachusetts, el Capítulo 131, Sección 40 de las Leyes Generales de Massachusetts y la Ordenanza sobre los humedales de Boston, por la presente queda usted notificado como propietario o vecino colindante de un proyecto presentado ante la Comisión de Conservación de Boston.

- A. **Boston Gas Company** ha presentado una solicitud a la Comisión de Conservación de Boston pidiendo permiso para modificar una zona sujeta a protección en virtud de la Ley de protección de los humedales (Leyes generales, capítulo 131, sección 40) y la Ordenanza sobre los humedales de Boston.
- B. La dirección del lote donde se propone la actividad es 1-111 Boardman Street and 131-135 Ashley Street, East Boston.
- C. El proyecto consiste en la sustitución de una tubería principal de gas existente.
- D. Se pueden obtener copias de la Solicitud de determinación de aplicabilidad comunicándose con la Comisión de Conservación de Boston en CC@boston.gov.
- E. Las copias de la Solicitud de determinación de aplicabilidad pueden obtenerse en Tighe & Bond, Melissa Coady (MPCoady@tighebond.com / 413-572-3224), de lunes a viernes entre las 8:00 a. m. y las 5:00 p. m.
- F. De acuerdo con el Decreto Ejecutivo de le Mancomunidad de Massachusetts que suspende ciertas disposiciones de la Ley de reuniones abiertas, la audiencia pública se llevará a cabo virtualmente en https://zoom.us/j/6864582044. Si no puede acceder a Internet, puede llamar al 1-929-205-6099, ingresar ID de reunión 686 458 2044 # y usar # como su ID de participante.
- G. La información relativa a la fecha y hora de la audiencia pública puede solicitarse a la Comisión de Conservación de Boston por correo electrónico a CC@boston.gov o llamando al (617) 635-4416 entre las 9 AM y las 5 PM, de lunes a viernes.

NOTA: La notificación de la audiencia pública, incluida su fecha, hora y lugar, se publicará en el **Boston Herald** con al menos cinco (5) días de antelación.

NOTA: La notificación de la audiencia pública, incluida su fecha, hora y lugar, se publicará en www.boston.gov/public-notices y en el Ayuntamiento de Boston con no menos de cuarenta y ocho (48) horas de antelación. Si desea formular comentarios, puede asistir a la audiencia pública o enviarlos por escrito a CC@boston.gov o al Ayuntamiento de Boston, Departamento de Medio Ambiente, Sala 709, 1 City Hall Square, Boston, MA 02201.

NOTA: También puede comunicarse con la Comisión de Conservación de Boston o con la Oficina Regional del Noreste del Departamento de Protección Ambiental para obtener más información sobre esta solicitud o la Ley de Protección de Humedales. Para comunicarse con el DEP, llame a la Región Noreste: (978) 694-3200.

NOTA: si tiene previsto asistir a la audiencia pública y necesita servicios de interpretación, sírvase informar al personal en CC@boston.gov antes de las 12 PM del día anterior a la audiencia.

ATTACHMENT D

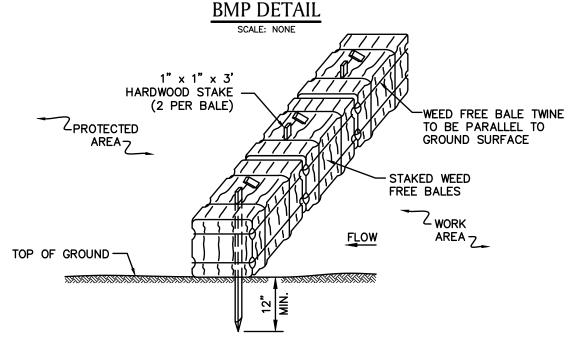
NATIONAL GRID BEST MANAGEMENT PRACTICES

ENVIRONMENTAL GUIDANCE

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SUBJECT

Access, Maintenance and Construction Best Management Practices Reference EP No. 3 - Natural Resource Protection (Chapter 6)



NOTES:

1. THE GROUND SHALL BE PREPARED TO PROVIDE COMPLETE CONTACT WITH THE BALES.

BMP PICTURE



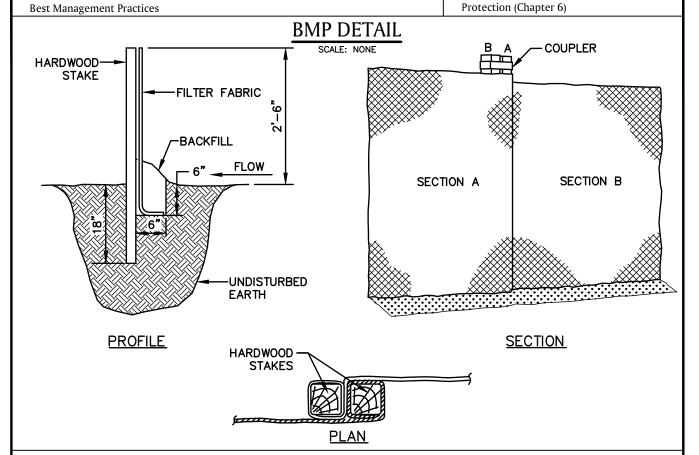
ENVIRONMENTAL GUIDANCE

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BMP PICTURE



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SEC-2
SEDIMENT CONTROL FENCE

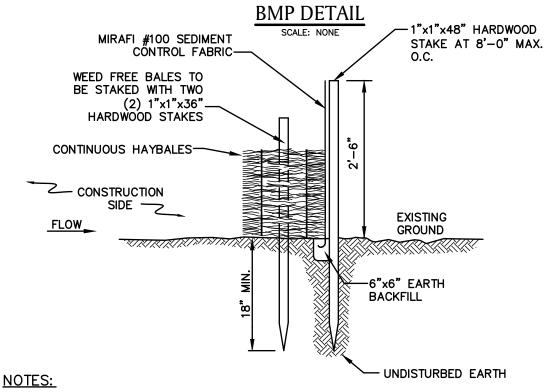
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- BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO (2) 1"X1"X36" HARDWOOD STAKES 2. DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY 3. AS NEEDED.
- BALES SHALL BE REMOVED AND REPLACED WHEN THEY BECOME FILLED WITH SEDIMENT AND BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- BALES SHALL BE REMOVED WHEN THE EMBANKMENTS STABILIZE. BALES TO BE TWINE BOUND. 5.

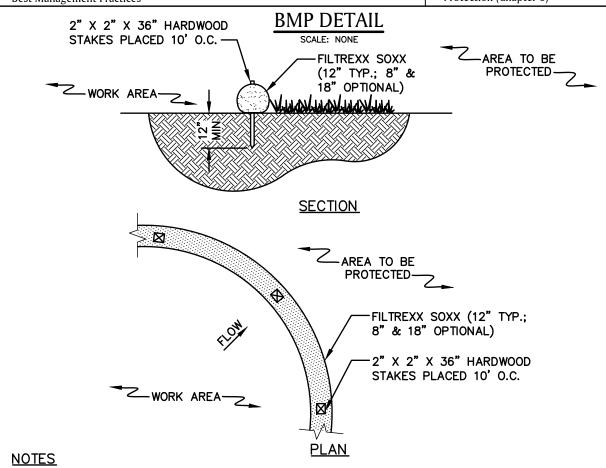
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SEC-3 SILT FENCE / WEED FREE BARRIER

Doc. No. EG-303NE nationalgrid Page: 7-4 Rev. No. 4 **ENVIRONMENTAL GUIDANCE** 02/20/18 Date SUBJECT Reference EP No. 3 - Natural Resource Access, Maintenance and Construction Protection (Chapter 6) **Best Management Practices**



- 1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
 FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
- 4. MESH CONTAINMENT MATERIAL SHOULD BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE MATERIAL, WITH OPENING SIZES BETWEEN 1/8" - 3/8".
- 5. COMPOST MEDIA SHOULD HAVE PARTICLE SIZE WHERE 99% < 2", 50% > 1/2".
 6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.





* PICTURE AND DETAIL PROVIDED BY FILTREXX LAND IMPROVEMENT SYSTEMS

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SEC-4 SILT SOXX *

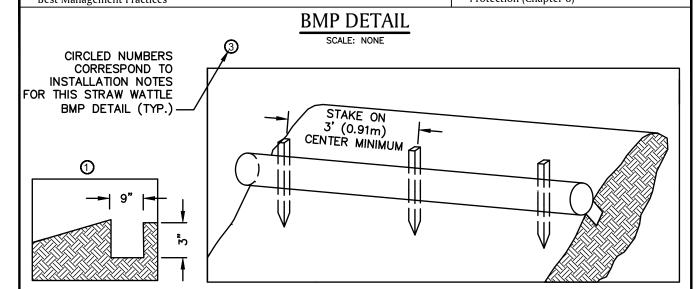
ENVIRONMENTAL GUIDANCE

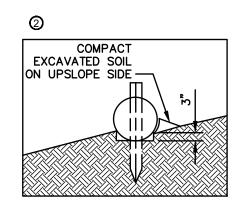
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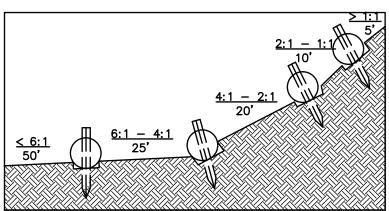
SUBJECT

Access, Maintenance and Construction **Best Management Practices**

Reference EP No. 3 - Natural Resource Protection (Chapter 6)







TYPICAL WATTLE SPACING DETAIL

NOTES:

- PRODUCT TO BE TENSAR NORTH AMERICAN GREEN STRAW WATTLE OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- TYPICAL WATTLE SPACING BASED ON SLOPE GRADIENT. COORDINATE SPACING AND LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- MINIMUM 12" DIAMETER WATTLES SHOULD BE USED FOR HIGHLY DISTURBED AREAS (I.E., HEAVILY USED ACCESS ROAD WITH ADJACENT WETLAND) AND MINIMUM 9-10" WATTLES SHOULD BE USED FOR LESS DISTURBED SOILS.

INSTALLATION NOTES:

- BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.
- PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
- 3. SECURE THE WATTLE WITH 18-24" HARDWOOD STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

* DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN

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SEC-5 STRAW WATTLE * (1 OF 2)

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BMP PICTURE



STRAW WATTLE - SHALLOW SLOPE (≤4:1) (ALTERNATE STAKING)

ALTERNATE STAKING INSTALLATION NOTES:

- 1. ON SHALLOW SLOPES (≤4:1), STRAW WATTLE MAY BE SECURED WITH 18-24" HARDWOOD STAKES DRIVEN AGAINST THE SIDES OF THE WATTLE INSTEAD OF THROUGH. STAKES SHALL ALTERNATE SIDES. AND BE SPACED 3-4' MAX.
- SIDES, AND BE SPACED 3-4' MAX.

 2. TWINE SHALL BE TIED FROM STAKE TO STAKE, CRISS-CROSSING THE STRAW WATTLE. TIE TWINE TO STAKES BELOW THE HEIGHT OF THE WATTLE.

* DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES
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SEC-5 STRAW WATTLE * (2 OF 2)

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Access, Maintenance and Construction Best Management Practices Reference EP No. 3 - Natural Resource

Protection (Chapter 6)

BMP DETAIL
SCALE: NONE
OPTIONAL INSERT 1" REBAR FOR BAG OVERFLOW REMOVAL FROM INLET
OVERFLOW — REMOVAL FROM INLET (REBAR NOT INCLUDED)
SILT SACK
EXPANSION RESTRAINT
DEPTH=D DUMP LOOPS (REBAR
NOT INCLUDED)
WIDTH=W
LENGTH=L
SIZE: L" X W" X D"
NOTES:

- 1. PRODUCT TO BE SILT SACK OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- 2. THE USE OF A SILT SACK OPTIONAL OVERFLOW AND OVERALL DIMENSIONS ARE TO BE COORDINATED WITH A NATIONAL GRID ENVIRONMENTAL SCIENTIST.

BMP PICTURE



* DETAIL PROVIDED BY ACF ENVIRONMENTAL APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE. AA-20 SILT SACK *

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