

Gas Main Replacement Project 9 – 35 India Street Boston, Massachusetts

REQUEST FOR DETERMINATION OF APPLICABILITY

National Grid 40 Sylvan Road Waltham, Massachusetts

October 2022

Tighe&Bond





WO# 1474472 N-5068-206-02 October 25, 2022

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

Re: Request for Determination of Applicability
Gas Main Replacement Project
9 - 35 India Street, 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 a portion of India Street in 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 has previously determined that changes in the proposed replacement gas main diameter renders 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 Photographic Log
- Attachment D Abutter Notification Information
- Attachment E 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.

Land Subject to Coastal Storm Flowage

The Federal Emergency Management Agency (FEMA) flood map (Panel No. 25025C0081J, 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 Boston Harbor, located approximately 565 feet east 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 India Street is comprised of the following:

- 355 linear feet (If) of 12-inch diameter low pressure (LP) cast iron (CI) (1849) piping
- 60 If of 12-inch diameter LP coated steel (CS) (1986, 1987, and 1988) piping
- 10 If of 6-inch diameter LP CI (1924) piping

A breakdown of the proposed gas main replacement activities is provided in Table 1 below. A total of 425 linear feet (If) of replacement gas main is proposed within the project area. The locations of the proposed gas main alignment are depicted on Figures 1 through 3 and in the Project Drawings provided in Attachment B. As noted above, all the proposed work within India 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 footprint of India Street, with the precise locations of the gas lines to be determined in the field so that existing utilities can be avoided. 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 an 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 850 (sf) of temporary impacts to LSCSF. The areas where the work is proposed consist entirely of 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 such as rising sea levels in applications for construction and is stricter than statewide standards.

According to the Climate Ready Boston Mapper, underground structures in the project area are within the 1% and 10% Annual Coastal Flood Risk areas for the 2030s, 2050s, and 2070s. The project area is also within near-, medium-, and long-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 USPS Certificate of Mailing in accordance with abutter notification requirements. Copies of the abutter notification forms (English and Chinese with translation certification), the list of abutters, and Affidavit of Service 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 November 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 Julia Novotny at (203) 841-8960 or via email at Novotny@tighebond.com, or me at (413) 572-3224 or via email at MPCoady@tighebond.com.

Sincerely,

TIGHE & BOND, INC.

nuis. C

Melissa P. Coady Project Manager

Enclosures

Copy: MassDEP NERO, Division of Wetlands and Waterways

Jaime Walker, National Grid

Table 1 Boston Gas Company Gas Main Replacement Boston, Massachusetts

Street	Gas Main Maintenance	Work within LSCSF
India Street from State Street to Milk Street	Relay of approximately 415 If of 12-inch diameter LP CI and CS pipe with 415 If of 12-inch diameter LP steel	Yes
At the intersection of India Street and Milk Street	Relay of approximately 10 lf of 6-inch diameter LP CI pipe with 10 lf of 8-inch diameter LP steel	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	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 it	dentify the location of the area subject to this request):					
	9 - 35 India Street	Boston					
	Street Address	City/Town					
	Not applicable, roadway right-of-way	·					
	Assessors Map/Plat Number Parcel/Lot Number						
	b. Area Description (use additional paper, if necessary):						
		India Street is a paved roadway right-of-way that serves residential, commercial, and municipal					
	south of Faneuil Hall in downtown Boston.	n 600 feet west of Boston Harbor and less than 200 feet					
	c. Plan and/or Map Reference(s):						
	Figure 1-Site Location	October 2022					
	Title	Date					
	Figure 2- Priority Resources	October 2022					
	Title	Date					
	Figure 3 - Site Plan	October 2022					
	Title	Date					
2.	a. Work Description (use additional paper an	d/or provide plan(s) of work, if necessary):					
refe	Boston Gas Company proposes to replace a prefer to the attached cover letter for additional details.	oortion of existing gas main within India Street. Please ails.					

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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

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant

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

C. Project Description (cont.)

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, water, sewer, telephone, telegraph and other communication services, provided said work utilizes the best practical measures to avoid or minimize impacts to wetland resource areas outside the footprint of said structure or facility. 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 New agriculture or aquaculture project 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

Name and address of the property owner:

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

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 State Zip Code 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. 10/24/2022 Signature of Applicant Date 10/21/2022 Signature of Representative (if any) Date

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FILE COPY

"OOG 194" ":

Account numbers are concealed for your security

FILE COPY

Check Details

Check issued: 10/20/2022 Check number: 6194 From: Tighe & Bond, Inc.

Amount: \$100.00

Payable to: Boston Conservation Commision

Delivered to: jnovotny@tighebond.com **Documents:** Yes - see Remittance below

Message from sender: Hi, attached is your Tighe & Bond electronic check. Any questions please email

AP@tighebond.com.

Notes

Activity

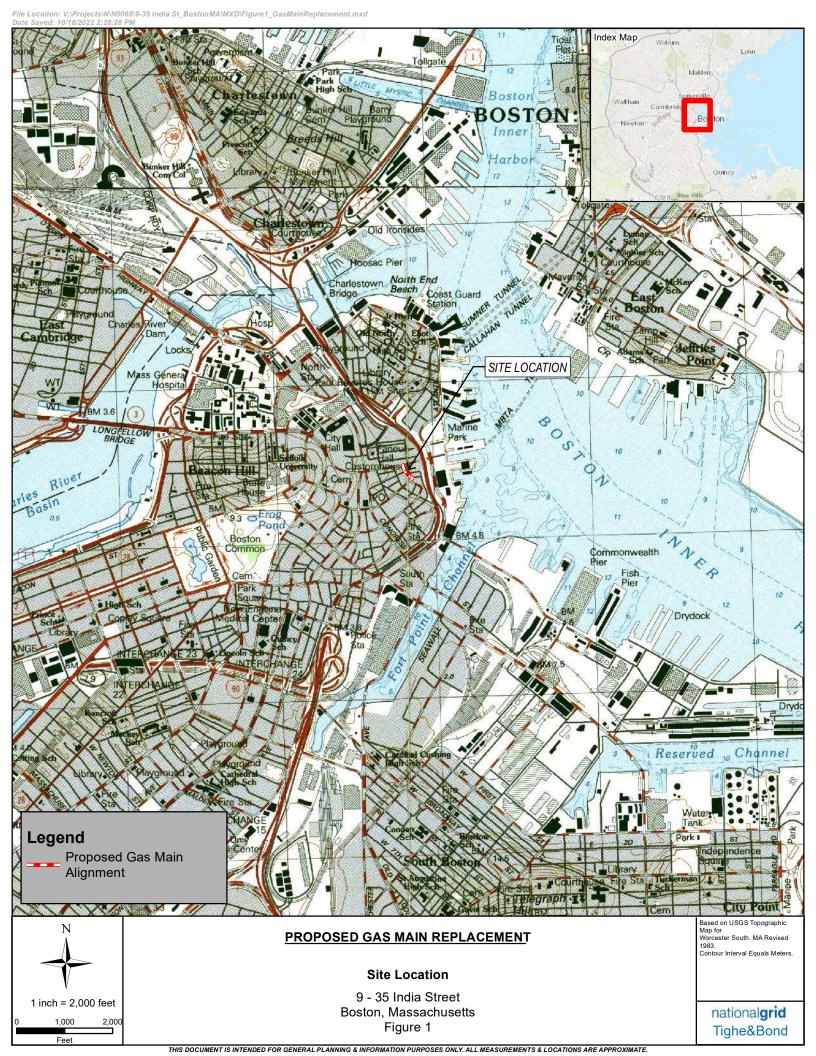
ACTIVITY TYPE	TIME	DATE
Tracy Houle issued check 6194	13:18 PM EDT	10/20/2022
Check 6194 file copy printed by Julia Novotny	16:25 PM EDT	10/20/2022

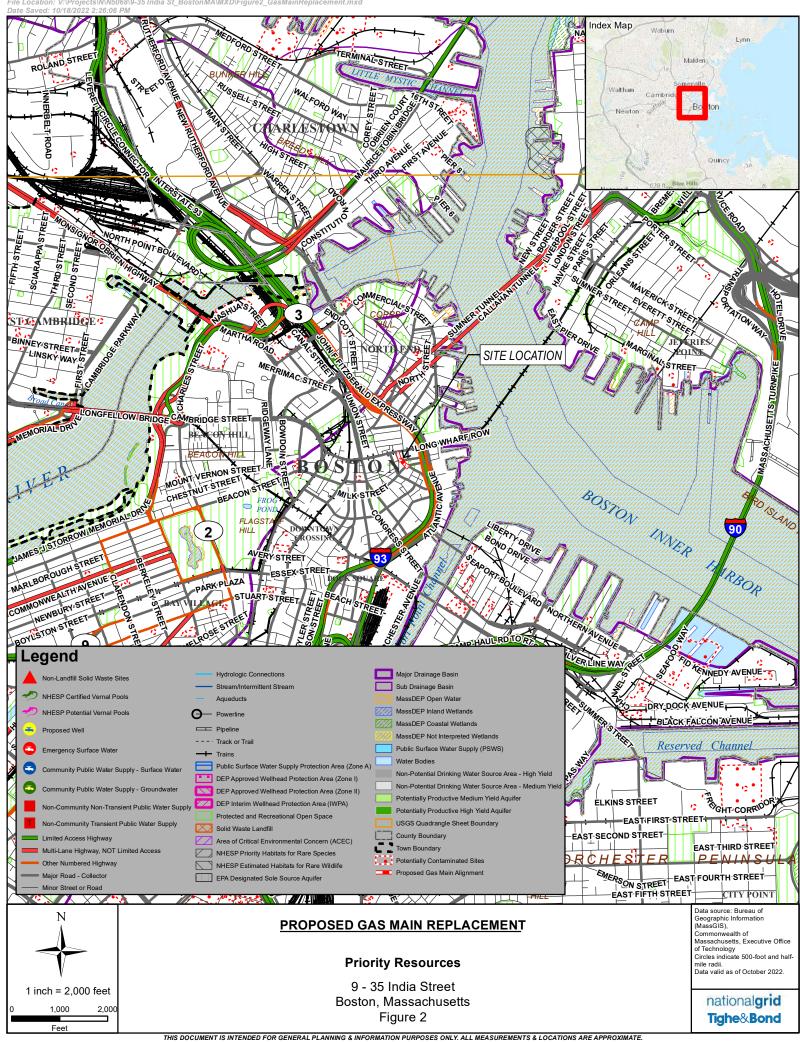
Remittance

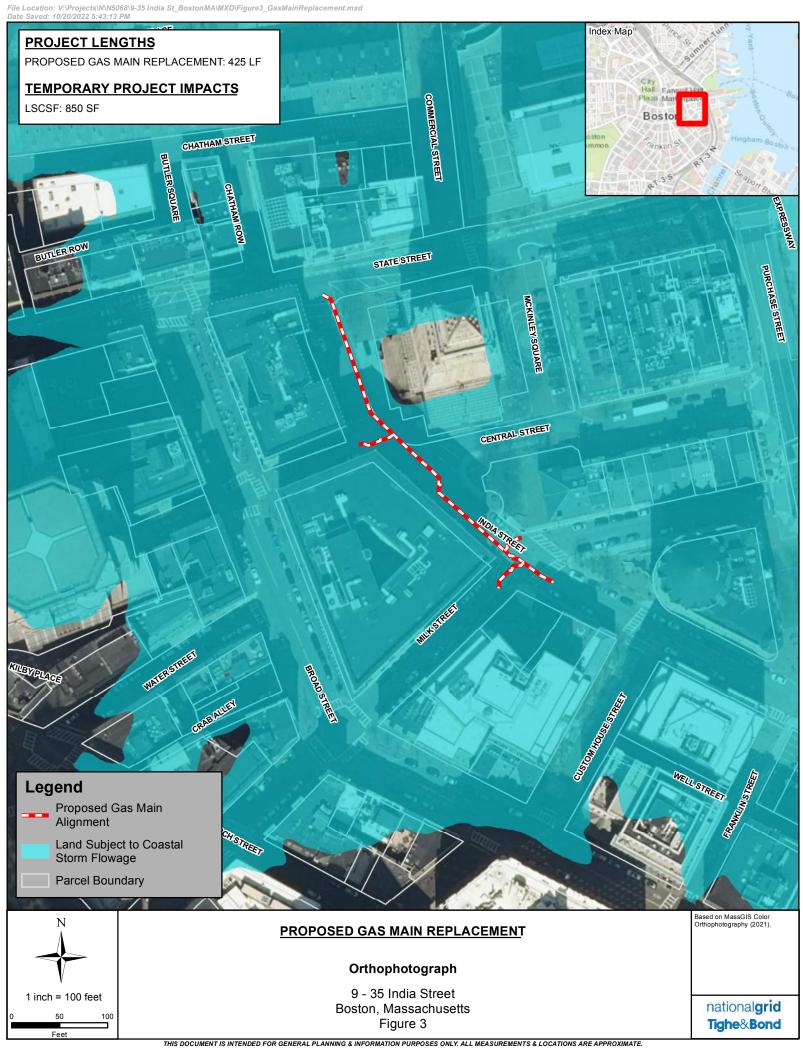
INVOICE DATE	INVOICE
10/20/2022	10192022JN

ATTACHMENT B

FIGURES AND SITE PLANS







nationalgrid

9 - 35 INDIA STREET GAS MAIN REPLACEMENT 6" & 12" C.I. & 12" C.S. TO 8" & 12" C.S. (L.P.) (9 - 35) INDIA ST, STATE ST, CENTRAL ST, & MILK ST, BOSTON, MA W.O. NO.: 1474472

PROJECT WITHIN 200' OF REGULATOR STATION #9

PIPE TOTALS				
DIAMETER	MATERIAL	ABANDONED	INSTALLED	
6"	CI	10 LF		
8"	CS		10 LF	
12"	CI	355 LF		
12"	CS	60 LF	415 LF	



INDEX OF SHEETS					
SHEET	NAME	TITLE			
1	DDS-BOS-71220322 G-001	COVER - LOCATION MAP			
2	DDS-BOS-71220322 G-002	CONSTRUCTION NOTES			
3	DDS-BOS-71220322 G-003	CONSTRUCTION NOTES & BILL OF MATERIALS			
4	DDS-BOS-71220322 C-001	OVERALL LAYOUT SHEET & MBTA DETAIL			
5	DDS-BOS-71220322 C-101	TIE-IN & ABANDONMENT DETAILS			
6	DDS-BOS-71220322 C-201	STANDARD DETAILS			
7	DDS-BOS-71220322 C-202	STANDARD DETAILS			
8	DDS-BOS-71220322 C-203	STANDARD DETAILS			
9	DDS-BOS-71220322 C-204	STANDARD DETAILS			
10	DDS-BOS-71220322 C-205	EXISTING REGULATOR FLOW DIAGRAM			



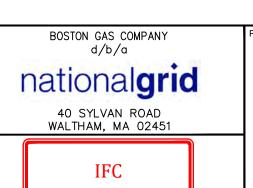
LOCATION MAP

LAT/LON: 42°21'31.5"N, 71°03'13.5"W

BOSTON, MA







STAMP							
Principle of the state of the s							
MARK E							
	С	MBTA PROFILE VIEW UPDATE	09/27/2022	TSN	DMJ	MEP	
	В	BOM UPDATE	09/20/2022	TSN	DMJ	MEP	
1 SICKNA STATE	Α	ISSUED FOR CONSTRUCTION	09/19/2022	TSN	DMJ	MEP	r
	NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY	

9-35 INDIA STREET
GAS MAIN REPLACEMENT
INDIA ST, STATE ST, CENTRAL ST, & MILK ST
BOSTON, MA

COVER - LOCATION MAP

DATE:

08/20/2022

ENGINEER

T. NOSAR

DESIGNER

DDS COMPANIES

ASSET I.D.

XXXXXXX

W.O. NO.:

1474472

PAGE 01 OF 10	
DRAWING NO.	SHEET NO.
G-001	01

SCOPE OF WORK:

NATIONAL GRID WORK ORDER NUMBER: 1474472

PROJECT NAME AND LOCATION: 9-35 INDIA ST, BOSTON, MA

PROJECT SCOPE: AS PART OF THE CIRE101214 PROGRAM, LPP INTEGRITY MANAGEMENT RECOMMENDS THE RELAY OF:

- APRX 140 FEET OF 12 INCH, LP CAST IRON (1849), APRX 5 FEET OF 12 INCH, LP COATED STEEL (1987) UBOSO321, APRX 50 FEET OF 12 INCH, LP COATED STEEL (1986) - MBOSO023, APRX 215 FEET OF 12 INCH, LP CAST IRON (1849) AND APRX 5 FEET OF 12 INCH, LP COATED STEEL (1988) - UBOSO542 WITH APRX 415 FEET OF 12 INCH, LP STEEL IN INDIA ST FROM THE EXST 12 INCH, LP COATED STEEL (1974) — UBOSO459 AT STATE ST TO THE EXST 12 INCH, LP COATED STEEL (1997) - MBOSO200 AT MILK ST
- APRX 10 FEET OF 6 INCH, LP CAST IRON (1924) WITH APRX 10 FEET OF 8 INCH, LP STEEL IN THE INTERSECTION OF INDIA ST AND MILK ST.

5 MAIN CONNECTIONS

GENERAL CONSTRUCTION:

1. NO FIELD CHANGES SHALL BE MADE TO THIS PLAN WITHOUT APPROVAL OF ASSIGNED NATIONAL GRID PROJECT ENGINEER.

ENGINEER: JORGE DE LA CRUZ

PHONE: (781) 718–1957

EMAIL: JORGE.DELACRUZ@NATIONALGRID.COM

- 2. 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
- C. DISTRIBUTION MAIN MINIMUM COVER: 24 INCHES
- D. SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
- E. CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.
- 3. SERVICES SHOULD BE INSTALLED WITH 24 INCHES OF COVER.
 - A. MINIMUM IN PUBLIC ROW: 18 INCHES B. 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 TEE 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 A CLEARANCE OF 12 INCHES FROM OTHER FACILITIES.
- 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.
- 7. 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.
- 8. 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 WITHIN THE SCOPE OF THE JOB OR WITHIN 200 FEET OF THE TIE-IN LOCATION.
 - 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. WHEN RELAYING A LOWER PRESSURE MAIN WITH A HIGHER PRESSURE MAIN. ALL SERVICES SHALL BE RELAYED OR INSERTED.
- 14. PIPE AND FITTING QUANTITY DESCRIBED IN SCOPE MAY VARY FROM AMOUNTS SHOWN ON THE BILL OF MATERIALS TO ACCOMMODATE FIELD CONDITIONS AND CONSTRUCTION.
- 15. CONTRACTOR TO REFER TO NATIONAL GRID SERVICE RECORD INFORMATION, ASSOCIATED CONSTRUCTION STANDARDS AND NATIONAL GRID INSTRUCTION FOR ALL SERVICE WORK WITHIN THE SCOPE OF LIMITS OF THIS PROJECT.
- 16. ANY FITTINGS (SUCH AS BUT NOT LIMITED TO. PURGES. VENTS & GAUGES) WHICH ARE REPRESENTED ON THESE PLANS AND DETAILS WITHOUT AN ASSOCIATED PART ON THE BILL OF MATERIALS ARE TO BE SIZED AND SELECTED PER CURRENT NATIONAL GRID STANDARDS BY THE CONTRACTOR.
- 17. THE CONTRACTOR SHALL CALL DIG-SAFE (DIAL 811) OR 888-344-7233 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS AND HOLIDAYS ARE EXCLUDED.
- 18. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PHYSICALLY LOCATE ON-SITE UTILITIES THROUGH TEST PIT EXCAVATION OF SAID UTILITIES W/ PRIOR AUTHORIZATION FROM UTILITY OWNER.
- 19. NOTIFY NATIONAL GRID I&R IF THE PROJECT IS WITHIN 200 FEET OF A REGULATOR STATION.
- 20. DIMENSIONS SHOWN ILLUSTRATE THE INTENT OF MAIN PLACEMENT. SLIGHT VARIATIONS ARE EXPECTED. ANY SIGNIFICANT CHANGE NEEDS TO BE BROUGHT TO THE OWNERS (NATIONAL GRID) ATTENTION PRIOR TO PLACEMENT.

- 21. CONTRACTOR TO VERIFY PRESSURE AND GAS FEED DIRECTION OF EXISTING MAINS, NEW MAINS, AND MAINS TO BE ABANDONED PRIOR TO ANY AND ALL TIE INS BEING PERFORMED.
- 22. LOCATION OF ANY IDENTIFIED UNDERGROUND UTILITIES IS APPROXIMATE ONLY, AND IS NOT WARRANTED TO BE CORRECT. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATION, ETC. 23. THE CONTRACTOR SHALL PROTECT AND MAINTAIN DIG SAFE FIELD MARKS, ANY EXISTING PROPERTY LINE
- MONUMENTATION OR OTHER EXISTING SURVEY STAKES OR FIELD MARKS. THE CONTRACTOR SHALL REPLACE AT THEIR EXPENSE ANYTHING DISTURBED OR DESTROYED.
- 24. THE CONTRACTOR SHALL COMPLETE MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PAVEMENT PATCHING, TRENCH & EQUIPMENT BLOCKING, TREE TRIMMING, ETC.
- 25. ANY SUBSURFACE UTILITIES. STRUCTURES AND/OR FIXED OBJECTS SHOWN AT, BELOW OR ABOVE GRADE SHOWN ON THESE PLANS HAVE BEEN PLACED BASED ON AVAILABLE RECORD MAPPING, AERIAL IMAGERY AND OTHER DESIGN RESOURCES. CONTRACTOR IS WARNED THAT EXACT OR APPROXIMATE LOCATION OF SUBSURFACE UTILITIES, STRUCTURES AND/OR FIXED OBJECTS SHOWN AT, BELOW OR ABOVE GRADE IN THE PROJECT AREA MAY DIFFER FROM THAT SHOWN OR MAY NOT BE SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO PERFORM FIELD VERIFICATION PRIOR TO EXECUTING ANY WORK.
- 26. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH
- THE LATEST NATIONAL GRID, APPLICABLE STATE DOT AND LOCAL MUNICIPAL STANDARDS 27. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE LATEST EDITION OF THE
- MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 28. ALL NECESSARY PRECAUTION FOR THE SAFETY OF THE PUBLIC SHALL BE TAKEN. ALL BARRIERS, WARNING LIGHTS AND OTHER DEVICES AND EQUIPMENT REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES SHALL BE MAINTAINED.
- 29. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO ALL OTHER EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE
- 30. CONTRACTOR MAY INSTALL ADDITIONAL VALVES NOT SHOWN IN THE PLANS IF DEEMED NECESSARY IN THE FIELD. NEW VALVES ASSOCIATED WITH TIE INS (SEE DETAILS ON SHEET 5) MUST BE INSTALLED PER THE DETAIL. FINAL LOCATION OF THE NEW VALVES IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. ANY SIGNIFICANT CHANGE MUST BE BROUGHT TO THE OWNERS (NATIONAL GRID) ATTENTION PRIOR TO
- 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUAINTING WITH THE CONDITIONS FOR THE SITE AND FOR ESTIMATING PROPERLY THE DIFFICULTY AND COST TO SUCCESSFULLY PERFORM THE WORK.
- 32. NATIONAL GRID RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT AS INTENDED AND INTERPRETED BY NATIONAL GRID.

DESIGN CRITERIA:

- 1. 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
- B. NOMINAL SIZE: 8 & 12 INCH
- C. MATERIAL: COATED STEEL
- D. MAOP: L.P.
- 3. PIPE SIZE DETERMINED BY NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING

SEQUENCE OF CONSTRUCTION:

- 1. CONTRACTOR SHALL CALL DIGSAFE (DIAL 811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE
- 2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS DESIGN PRIOR TO CONSTRUCTION.
- 3. NOTIFY NATIONAL GRID I&R IF THE PROJECT IS WITHIN 200 FEET OF A REGULATOR
- 4. INSTALL MAIN AS INDICATED IN SCOPE OF WORK.
- 5. PRESSURE TEST (SEE PRESSURE TESTING SECTION)
- 6. MAKE CONNECTION IN DETAIL A.
- 7. PURGE NEW MAIN INTO SERVICE.
- 8. TRANSFER/RELAY SERVICES TO NEW MAIN. 9. COMPLETE CONNECTIONS IN DETAILS B, C, & D.
- 10. COMPLETE CONNECTION IN DETAIL E, OLD MAIN GO DEAD.
- 11. PURGE OLD MAIN OUT OF SERVICE AND ABANDON.
- 12. PERFORM RESTORATION.

CODES & STANDARDS

- 1. 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
- 3. FEDERAL & STATE:
 - A. TITLE 49: PART 192 TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS
 - B. 220 CMR: DEPARTMENT OF PUBLIC UTILITIES
 - 100.00 113.00: MASSACHUSETTS GAS DISTRIBUTION CODE
 - C. AMERICAN SOCIETY OF MECHANICAL ENGINEERS
 - B31.8: GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS D. 248 CMR 4-7: MA FUEL GAS CODE
- 4. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID GAS POLICIES AND WORK METHODS, INCLUDING BUT NOT LIMITED TO:
 - A. CNST01003: BACKFILL AND RESTORATION
 - B. CNST01005: PREPARATION OF GAS FACILITY HISTORICAL RECORDS
 - C. CNST01006: COMMERCIALLY AVAILABLE SHORING SYSTEMS
 - D. CNST02014: ENCAPSULATING CAST IRON JOINTS
 - E. CNST03001: SQUEEZE-OFF OPERATIONS
 - F. CNST03002: STOP-OFF OPERATIONS ON LOW PRESSURE MAINS G. CNST03005: PURGING REQUIREMENTS FOR GAS PIPELINES
- a. CNST03006: PURGING OPERATIONS DIRECT DISPLACEMENT
- b. CNST03007: PURGING OPERATIONS COMPLETE INERT FILL c. CNST03008: PURGING OPERATIONS - SLUG METHOD
- H. CNST03014: STOP OFF OPERATIONS FOR KLEISS EQUIPMENT
- I. CNST04005: INSTALLING STEEL DISTRIBUTION MAINS
- J. CNST04007: FIELD COLD BENDING OF LINE PIPE
- K. CNST04008: INSTALLING PLASTIC MAINS
- L. CNST04011: ABANDONMENT OF MAINS
- M. CNST04012: GROUTING ABANDONED PIPELINES
- N. CNST04030: RAISING MAIN AND SERVICE GATE BOXES
- O. CNST05001: JOINING OF PLASTIC PIPE P. CNST5010: GENERAL CONSTRUCTION REQUIREMENTS AND PIPE HANDLING
- Q. DAMO1011: EXCAVATION AND EXCAVATION NOTIFICATION REQUIREMENTS FOR UNDERGROUND FACILITIES FOR
- MASSACHUSETTS AND RHODE ISLAND
- R. DAMO1015: LOCATE AND MARK-OUT REQUIREMENTS FOR UNDERGROUND GAS FACILITIES
- S. DAMO1016: LOCATE AND MARK-OUT OF UNDERGROUND FACILITIES T. GCON02001: SYSTEM OPERATING PROCEDURE (SOP)
- U. GEN01100: OPERATOR QUALIFICATION PLAN
- V. GEN03002: PROCESSING GAS MAIN AND NEW SERVICE WORK PACKAGES
- W. GEN03004: CHANGE CONTROL PROCEDURE FOR STANDARD CONSTRUCTION PROJECTS
- X. INRO6002: SUPPLEMENTAL ODORIZATION FOR NEW PIPING
- NOTIFY I&R FOR PROJECTS IN EXCESS OF 2500 FEET. ODOR MONITORING AND/OR SUPPLEMENTAL
- ODORIZATION MAY BE REQUIRED Y. MAIN5030: INSTALLATION OF POLYETHYLENE PIPE
- Z. MECH5010: JOINTS OTHER THAN WELDED
- AA. 030018-CS: SPECIFICATION AND HANDLING OF TRAFFIC PLATES
- AB. CNST01001: HORIZONTAL DIRECTIONAL DRILLING AC. CNST03011: NO-INTERRUPT SERVICE TRANSFER
- AD. CNST6061: TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES
- AE. MECH6010: CONNECTION OF DISSIMILAR POLYETHYLENE PLASTIC PIPE WITH ELECTROFUSION OR MECHANICAL COUPLING
- AF. CS-CNST002: TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES
- 5. SERVICE SPECIFIC CONSTRUCTION STANDARDS, GAS POLICIES AND WORK METHODS:
- A. CMS03002: CUSTOMER METER AND SERVICE REGULATOR DESIGN AND INSTALLATION POLICY
- B. CMS04002: PURGING PROCEDURES FOR CUSTOMER METER SERVICES
- C. CNST03011: NO-INTERRUPT SERVICE TRANSFER D. CNST06002: INSTALLING DISTRIBUTION SERVICES
- E. CNST06003: INSTALLATION & MAINTENANCE POLICY FOR CURB VALVES ON SERVICE LINES WITH INSTALLED
- METER CAPACITIES OVER 1.000 SCFH THAT DON'T HAVE EXCESS FLOW VALVES F. CNST06009: METER/SERVICE RELOCATION GUIDELINE
- G. CNST06020: COMPLETION AND PROCESSING OF GAS SERVICE RECORD CARDS
- H. CNST06030: NOTIFICATION OF CUSTOMERS INVOLVED IN THE INTERRUPTION OF GAS SERVICE I. CS-SERVOO1: TYPICAL 1/2" SERVICE OUTSIDE SETS
- J. CS-SERVOO2: TYPICAL 1" SERVICE OUTSIDE SETS K. CS-SERV003: TYPICAL 1-1/4" SERVICE OUTSIDE SETS
- L. CS-SERV004: TYPICAL 2" SERVICE
- M. CS-SERVOO5: EXCESS FLOW VALVE REQUIREMENTS ON HP SERVICES N. CS-SERVOO9: TYPICAL 1/2" SERVICE INSIDE SETS
- O. CS-SERVO10: TYPICAL 1" SERVICE INSIDE SETS P. HTAP-6010: NO-INTERRUPT 1 INCH CTS AND 1-1/4 INCH CTS SERVICE TRANSFER (NIST) LP TO 60 PSIG

U. VALV6110: 1/2 INCH - 3 INCH POLYETHYLENE GAS SERVICE VALVE INSTALLATION

- Q. SERV-5075: RELOCATION OF METER SET ASSEMBLIES INSIDE TO OUTSIDE R. SERV6076: 1-1/4" LP PLASTIC SERVICE WITH 1 AL-250 TC METER
- S. SERV6077: 1-1/4" CTS LP PLASTIC INSERT WITH 1 AL-250 TC EQUIV. METER INSIDE
- T. SERV-6185: HOT TAPPING MD BRANCH SADDLES OFF 4IN 12IN 60 PSIG MAOP LIVE PLASTIC GAS MAIN USING MCELROY HOT TAPPING TOOL

6. SEE TIE IN DETAILS FOR APPLICABLE MAIN CONNECTION REFERENCES.

T. NOSAR

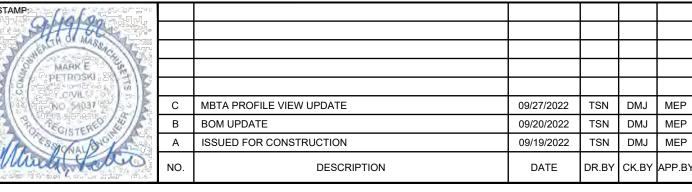
- 7. SEE BILL OF MATERIAL FOR MATERIAL SPECIFICATION. STANDARD AND/OR APPLICABLE NATIONAL GRID "FITS" REFERENCE.
- A. FOR THIS PROJECT, GRADE B, X42, X52 AND EQUIVALENT ARE ACCEPTABLE STEEL MATERIAL STRENGTHS IF APPLICABLE. ALTERNATES TO THE BOM ARE ALLOWED WITHIN THIS RANGE BASED ON MATERIAL AVAILABILITY.

XXXXXXXX

1474472



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



9-35 INDIA STREET GAS MAIN REPLACEMENT INDIA ST, STATE ST, CENTRAL ST, & MILK ST BOSTON, MA **CONSTRUCTION NOTES** TSN DMJ MEP

DDS COMPANIES

DWG SIZE

22"X34"

DESIGNER DATE: ASSET I.D. WO NO: ENGINEER

08/20/2022

SHEET NO. DRAWING NO G-002 02

PAGE 02 OF 10

45 HENDRIX ROAD WEST HENRIETTA. NY 14586 PHONE (585) 359-7540 FAX (585) 359-7541

PRESSURE TESTING REQUIREMENTS:

- 1. PRESSURE TEST ALL DISTRIBUTION PIPING IN ACCORDANCE WITH:
- A. CNST04003: PRESSURE TESTING MAINS OPERATING BELOW 125 PSIG
- B. TEST PRESSURE (MINIMUM): 90 PSIG
- C. TEST DURATION BASED ON LENGTH AND DIAMETER IN ACCORDANCE WITH TABLE 1 OF CNSTO4003. D. TEST MEDIUM: AIR AND/OR NITROGEN
- 2. PRESSURE TEST SERVICES IN ACCORDANCE WITH: A. CNST06008: PRESSURE TESTING SERVICE LINES

WELDING:

- 1. NATIONAL GRID WELDING POLICIES AND PROCEDURES INCLUDE:
 - A. CNST05002: WELDING POLICY
 - B. CNST05003: PIPE WELDING SAFETY
 - C. CNST05005: WELDING PROCEDURE SPECIFICATIONS D. 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.
- 3. 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 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
 - C. FILLET WELDS: 10% MAGNETIC PARTICLE
- 5. NDE AND WELD MAP SHALL BE PROVIDED BY SKYTESTING.
- 6. SKYTESTING SCHEDULING CONTACT: WILLIAM (BILL) CLARK

CATHODIC PROTECTION:

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

- 1. IF EXISTING TEST STATIONS, WIRES, AND/OR MAGNESIUM ANODES ARE DISTURBED OR DAMAGED
 - NOTIFY THE NATIONAL GRID CORROSION DEPARTMENT: DAVE HALNEN (781) 379-7831 FOR SUPERVISOR ISSUES ALANNA GRONDINE (339) 225-5378 FOR ENGINEERING ISSUES ALLISIA APINIAN-MARGIOS (781) 296-7569 FOR MANAGEMENT ISSUES
- 2. 24 HOUR NOTICE IS REQUIRED PRIOR TO INSTALLATION OF INSULATED FITTINGS TO ALLOW FOR ACCEPTANCE TESTING.
- 3. NATIONAL GRID CORROSION GAS POLICIES AND WORK METHODS INCLUDE:
 - A. COR01100: CORROSION DESIGN CRITERIA B. CORO2001: APPLICATION OF COATING SYSTEMS
- COR02020: INSPECTING EXPOSED STEEL PIPE FOR CORROSION
- D. COR02021: INSPECTING EXPOSED CAST OR DUCTILE PIPING FOR GRAPHITIZATION
- COR03001: TESTING OF PIPE COATING (JEEP TESTING) CORO4001: INSTALLATION OF MAGNESIUM ANODES
- G. CORO4003: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
- H. CORO4004: INSTALLATION OF WIRE CONNECTIONS
- CORO4005: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION 030031-CS: FACILITY COATING GUIDE
- K. 030026-CS: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
- P. 030036-CS: INSTALLING WIRE CONNECTIONS
- 4. CORROSION DESIGN:
- A. SEE DETAILS A, B, C, & E ON SHEET 05:
- INSTALL AN INSULATED COUPLING, A STEEL SPOOL PIECE AND A SECOND INSULATED COUPLING BETWEEN THE EXISTING COATED STEEL MAIN AND THE PROPOSED COATED STEEL MAIN. INSTALL A 6-WIRE TEST STATION ACROSS THE INSULATORS. INCLUDE 4-17 LB ANODES SPACED AT LEAST 8 FT APART AND 1 FT BELOW THE MAIN USING A SINGLE HEADER CABLE. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION. D. SEE DETAIL D ON SHEET 05:
- INSTALL A 2-WIRE TEST STATION TO THE PROPOSED COATED STEEL MAIN AT THE COATED STEEL/PLASTIC INTERFACE, INCLUDE 4-17 LB ANODES SPACED AT LEAST 8 FT APART AND 1 FT BELOW THE MAIN USING A SINGLE HEADER CABLE. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION.
- 5. STEEL PIPE, FITTINGS, VALVES AND OTHER CARBON STEEL COMPONENTS TO BE BURIED WHICH ARE NOT FACTORY COATED FOR BURIED SERVICE SHALL BE FIELD COATED.

ENVIRONMENTAL:

- 1. WORK SHALL CONFORM TO THE NATIONAL GRID ENVIRONMENTAL POLICY.
- 2. NATIONAL GRID ENVIRONMENTAL CONTACT:
- NAME: JAIME WALKER
 - PHONE: (978) 551-1156 EMAIL: JAIME.WALKER@NATIONALGRID.COM
- CONTRACTOR SHALL REVIEW THE PROJECT WORK ORDER PACKAGE FOR 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 THAT IS CONTAMINATED SHALL LEAVE THE WORK SITE UNTIL ENVIRONMENTAL HAS MADE A DETERMINATION FOR ITS PROPER DISPOSAL.
- 6. NATIONAL GRID ENVIRONMENT POLICIES AND PROCEDURES INCLUDE:
 - A. SHE02001: HANDLING CONTAMINATED MATERIALS AND PIPING B. SHE02002: REMOVING MERCURY REGULATORS AND DEVICES
 - C. SHE02003: ENCOUNTERING CONTAMINATION WHILE EXCAVATING
 - EG303-NE: BEST MANAGEMENT PRACTICES
 - E. EG140: USED GAS PIPE MANAGEMENT
- 7. ENVIRONMENTAL REQUIREMENTS:
- PROPOSED WORK LOCATED WITHIN 100 FEET OF WETLANDS AND/OR BODIES OF WATER / WITHIN 200 FEET OF A RIVER OR A STREAM (*25 FEET IN BOSTON, BROCKTON, CAMBRIDGE, CHELSEA, EVERETT, FALL RIVER, LAWRENCE, LOWELL, MALDEN, NEW BEDFORD, SOMERVILLE, SPRINGFIELD, WINTHROP, OR WORCESTER) / WITHIN A FLOODPLAIN.

SAFETY:

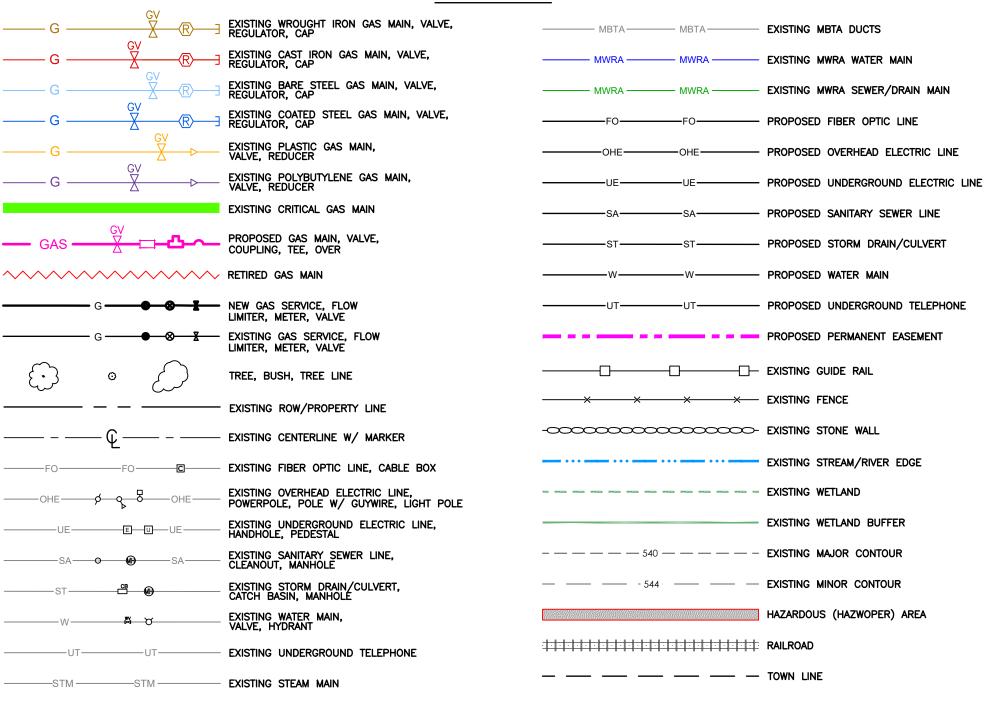
- 1. WORK SHALL CONFORM TO THE NATIONAL GRID EMPLOYEE SAFETY HANDBOOK AND OSHA REQUIREMENTS.
- 2. REQUIRED PPE SHALL BE WORN AND UTILIZED IN ACCORDANCE WITH THE CURRENT NATIONAL GRID SAFETY POLICY.
- 3. A NATIONAL GRID APPROVED CONTRACTOR HEALTH AND SAFETY PLAN (HASP) IS REQUIRED PRIOR TO CONSTRUCTION.
- 4. CONSTRUCTION SIGNING, DRUMS, BARRICADES, AND OTHER TRAFFIC CONTROL 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 PROCEDURES COVER THE FOLLOWING CATEGORIES: 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. NATIONAL GRID SAFETY POLICIES AND PROCEDURES INCLUDE:
 - SHE01001: GENERAL SAFETY REQUIREMENTS 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
- 7. JOB BRIEFINGS, AT A MINIMUM, SHALL BE CONDUCTED BEFORE THE START OF THE FIRST JOB ON EACH DAY OR SHIFT. ADDITIONAL BRIEFINGS MAY BE REQUIRED AFTER EXTENDED WORK BREAKS.
- 8. ANY AND ALL WORKERS THAT HAVE ANY POTENTIAL TO COME INTO CONTACT WITH SOIL AND/OR GROUNDWATER MUST HAVE UP-TO-DATE OSHA 40-HOUR HAZWOPER TRAINING. COPIES OF OSHA CERTIFICATES/TRAINING REFRESHERS SHALL BE PROVIDED TO NATIONAL GRID FOR REVIEW PRIOR TO THE START OF WORK.

OTHER PERMITTING REQUIREMENTS:

- 1. CITY OF BOSTON STREET OPENING PERMIT
- 2. TRAFFIC MANAGEMENT PLAN (TMP) (TO BE COMPLETED BY FEENEY BROTHERS)
- MBTA PERMIT
- 4. ENVIRONMENTAL PERMIT AND/OR THE USE OF ENVIRONMENTAL BMPS MAY BE REQUIRED.

REFERENCE DRAWINGS:

1. LOCATION OF IDENTIFIED UNDERGROUND UTILITIES ARE AN APPROXIMATE BASED ON AVAILABLE RECORD AND FIELD INFORMATION IN ACCORDANCE WITH CI/ASCE 38-02. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT IDENTIFIED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATIONS, ETC.



T		I	BILL OF MATERIALS	<u> </u>	NATIONAL	
				0177	NATIONAL	SAP ID
ITEM	QTY	UOM	DESCRIPTION	SIZE (IN.)	GRID	NUMBER
					REFERENC	
1	10	FT	PIPE, SDR 11.5, MDPE, 4.50 IN. O.D. X .395 IN. WALL THICKNESS, 40 FT LENGTHS	4	120020-MS	9340857
2	10	FT	PIPE, CARBON STEEL, SCH 40, 0.237 IN. WALL, GRADE X 42. PRITEC WRAPPED SPECIAL RATIO WITH 15/60	4	120020-MS	9322665
3	10	FT		6	120020-MS	9340726
4*		FT	PIPE, COATED STEEL, SCH 40, 0.280 IN. WALL, API-5L GRADE B PSL-1, 40 FT LENGTHS	8		9340726
5*	40	FT	PIPE, CARBON STEEL, SCH 40, 0.322 IN WALL, API-5L GRADE B PSL-2, 40 FT LENGTHS	12	120020-MS	9340625
	440	EA	PIPE, CARBON STEEL, SCH 40 0.375 IN WALL, API 5L X42 PSL-2, 40 FT LENGTHS		120020-MS	
6 7	<u> </u>	EA	CAP, BUTT FUSION, MDPE	4	120026-MS	9339534
/	ı	EA	CAP, ELECTROFUSION, HDPE	4	120025-MS	9393582
8	2	EA	CAP, LINE, VENTED, SELF RESTRAINING BOLTED, COMPRESSION, FOR STEEL, CONDUCTIVE, 5IN Lx0.250IN THK MIDDLE RING	6	FITS6014	9314880
9	2	EA	CAP, LINE, VENTED, SELF RESTRAINING BOLTED, COMPRESSION, FOR STEEL, CONDUCTIVE,	12	FITS6014	9315212
40	4		5IN Lx0.250IN THK MIDDLE RING	4	400005 NAC	0044500
10	1	EA	COUPLING, ELECTROFUSION, BLACK, HDPE	4	120025-MS	9314593
11	1	EA	COUPLING, COMPRESSION, RESTRAINING, INSULATED, BOLTED, STEEL X STEEL/PE	4	FITS6025	9314427
12	1	EA	STIFFENER, INSERT, METAL, FOR SDR 11.5 PIPE	4	FITS6025	9340106
13	4	EA	COUPLING, COMPRESSION, RESTRAINING, INSULATED, BOLTED, STEEL X STEEL/PE	6	FITS6025	9314426
14	4	EA	COUPLING, COMPRESSION, RESTRAINING, INSULATED, BOLTED, STEEL X STEEL/PE	12	FITS6025	9307629
15	1	EA	ELBOW, WELD, 90 DEGREE, LONG RADIUS, STEEL, STANDARD WALL 0.237 IN, PER ANSI B16.9, ASTM A-234, GRADE WPB	4	120020-MS	9315385
16	2	EA	ELBOW, WELD, 45 DEGREE, LONG RADIUS, STEEL, STANDARD WALL 0.280 IN, PER ANSI	6	120020-MS	9308618
			B16.9, ASTM A-234, GRADE WPB			
17*	3	EA	ELBOW, WELD, 45 DEGREE, LONG RADIUS, STEEL, STANDARD WALL 0.322 IN, PER ANSI	8	120020-MS	9307720
			B16.9, ASTM A-234, GRADE WPB		120020 1110	
18*	9	EA	ELBOW, WELD, 45 DEGREE, LONG RADIUS, STEEL, STANDARD WALL 0.375 IN, PER ANSI	12	120020-MS	9308373
10			B16.9, ASTM A-234, GRADE WPB	12	120020 1010	
19*	2	EA	TEE, WELD, STEEL, STANDARD WEIGHT, STANDARD WALL 0.375 IN, PER ANSI B16.9, ASTM A-	12	120020-MS	9315875
10			234, GRADE WPB	12	120020 1010	
20*	1	EA	TEE, WELD, STEEL, STANDARD WEIGHT, STANDARD WALL 0.375IN X 0.322IN, PER ANSI B16.9,	12X12X8	120020-MS	9315877
20	'		ASTM A-234, GRADE WPB	12X12X0	120020-1010	3313077
21	1	EA	REDUCER, STEEL, WELD, CONCENTRIC, STANDARD WALL 0.322 IN X 0.237 IN, PER ASTM A-	8X4	120020-MS	9315725
۷۱	I		234, GRADE WPB	0/4	120020-1013	9313723
22	2	EA	REDUCER, STEEL, WELD, CONCENTRIC, STANDARD WALL 0.375 IN X 0.280 IN, PER ASTM A-	12X6	120020-MS	9315744
22	2	LA	234, GRADE WPB	12/0	120020-1015	9313744
23	1	EA	VALVE, BALL, DELTA, FIG 55, FULL PORT, WE X WE	8	VALV6010	9323331
24	1	EA	VALVE BOX FOR 8" CS FULL PORT VALVE	8	VALV6010	9307586
25	4	EA	VALVE, BALL, DELTA, FIG 55, FULL PORT, WE X WE	12	VALV6010	9341948
26	4	EA	VALVE BOX FOR 12" CS FULL PORT VALVE	12	VALV6010	9307586
			FITTING, SHORTSTOPP, WELD, CONTOURED BASE INCLUDES THREADED COMPLETION PLUG			
27	8	EA	AND THREADED CAP	1 1/2	FITS6055	9382855
			FITTING, SHORTSTOPP, WELD, CONTOURED BASE INCLUDES THREADED COMPLETION PLUG			
28	1	EA	AND THREADED CAP	2	FITS6055	9341087
			FITTING, SHORTSTOPP, WELD, CONTOURED BASE INCLUDES THREADED COMPLETION PLUG			
29	8	EA	AND THREADED CAP	3	FITS6055	9382856
30	4	EA	SADDLE, FOR CAST IRON MAIN, SMITH BLAIR 310	12X4	CS-FIT014	9308283
31	4	EA	PLUG, SCREW, MALLEABLE IRON, SQUARE HEAD, STANDARD, THREADED FITTINGS	4	00-111014	9308283
32	1	EA	TAPE, YELLOW CAUTION, GAS MAIN, 1000' ROLL	6	CNST6061	9341904
33	10	FT		U	CNST6061 CNST6060	
			WIRE, TRACER, DIRECT BURY USE	0.40		9315005
34	5	EA	9X9 TEST STATION BOX	9X9	030026-CS	9339391
35	5	EA	TEST STATION BOX COVER	9	030026-CS	9339797
36	20	EA	ANODE, MAGNESIUM, 17LB, HIGH POTENTIAL	30	120004-MS	9311183
CONT		TIEO	ADELED ON LAVOUT CHEETO			

BILL OF MATERIALS

* SOME QUANTITIES LABELED ON LAYOUT SHEETS

UTILITY OWNER INFORMATION:

SEWER: BOSTON WATER & SEWER DEPARTMENT #980 HARRISON AVE. BOSTON, MA 02119 DRAIN: BOSTON WATER & SEWER DEPARTMENT #980 HARRISON AVE. BOSTON, MA 02119

#980 HARRISON AVE. BOSTON, MA 02119 BOSTON DPW STREET LIGHTING

#400 FRONTAGE RD.

BOSTON WATER & SEWER DEPARTMENT

BOSTON, MA 02118 EVERSOURCE ELECTRIC "A" #1165 MASSACHUSETTS AVE. DORCHESTER, MA 02125

RAILROAD: MBTA DOCUMENT CONTROL GROUP #500 ARBORWAY BOSTON, MA 02130

NATIONAL GRID GAS #40 SYLVAN RD. WALTHAM, MA 02451

TELEPHONE:

#385 MYLES STANDISH BLVD. TAUNTON, MA 02780 CABLE: COMCAST CABLE CORPORATION

VERIZON

PO BOX #6505, #5 OMNI WAY CHELMSFORD, MA 01824 AT&T / TELEPORT COMMUNICATIONS AMERICA

#50 MALL RD - SUITE #203

BURLINGTON, MA 1803 CROWN CASTLE #80 CENTRAL ST

PORTSMOUTH, NH 03801

BOXBOROUGH, MA 01719 FIRST LIGHT #359 CORPORATE DR



45 HENDRIX ROAD WEST HENRIETTA, NY 14586 PHONE (585) 359-7540 FAX (585) 359-7541

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



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7	В	BOM UPDATE	09/20/2022	TSN	DMJ	MEP	
	Α	ISSUED FOR CONSTRUCTION	09/19/2022	TSN	DMJ	MEP	DWG SIZE
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9-35 INDIA STREET GAS MAIN REPLACEMENT INDIA ST, STATE ST, CENTRAL ST, & MILK ST BOSTON, MA

08/20/2022

T. NOSAR

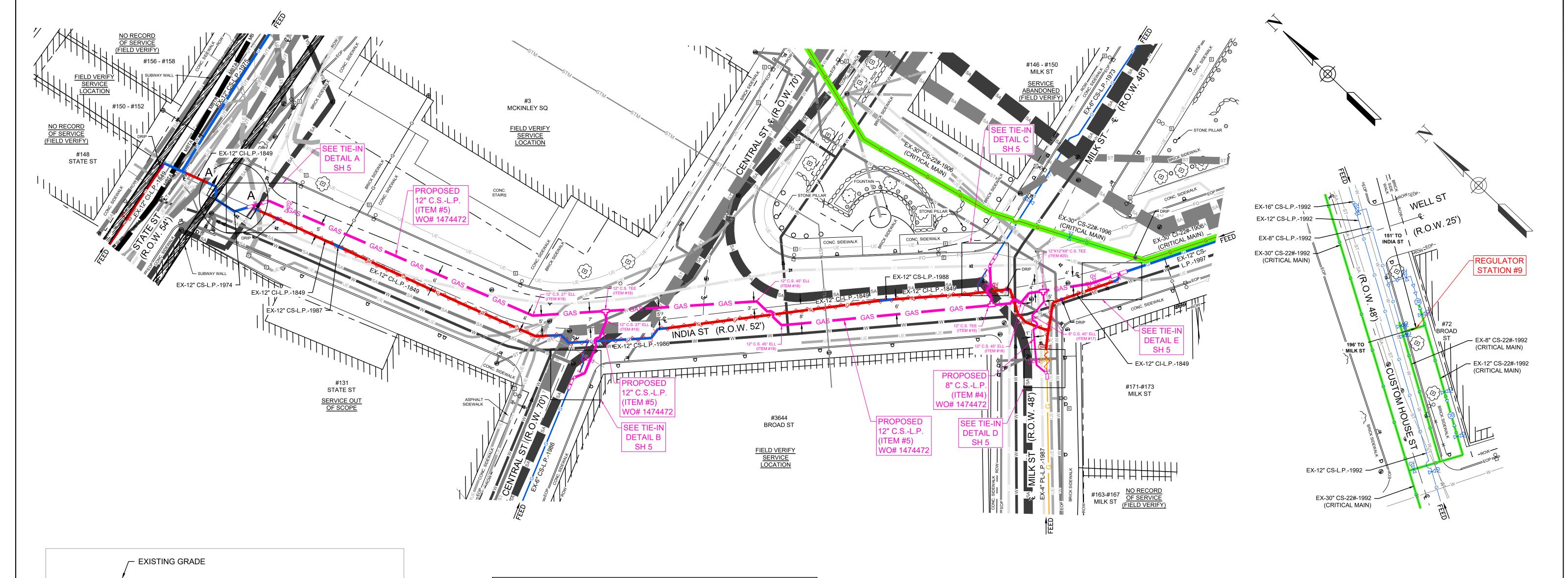
DDS COMPANIES

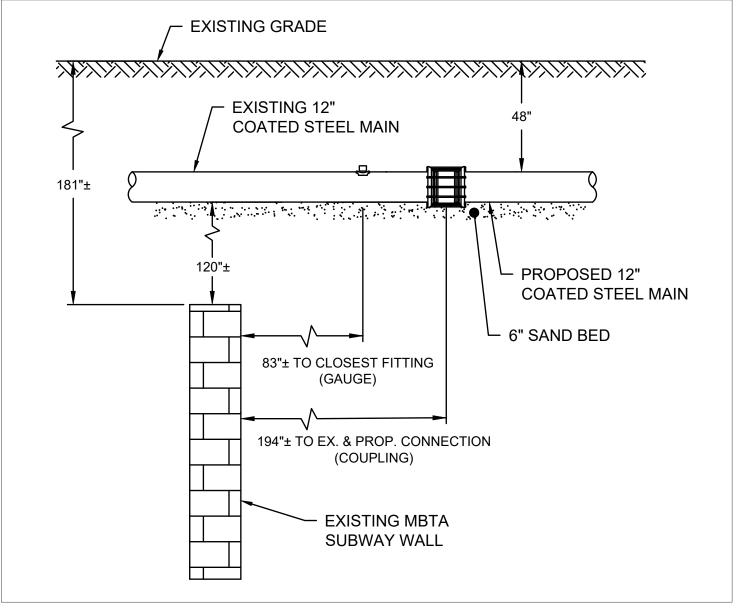
CONSTRUCTION NOTES & BILL OF MATERIALS DESIGNER DATE: ASSET I.D. W.O. NO.: **ENGINEER**

XXXXXXXX

1474472

PAGE 03 OF 10 SHEET NO. DRAWING NO. G-003 03





PROFILE DETAIL: SECTION A-A AT MBTA

N.T.S

DESIGN PARAMETERS:

1474472 - 9-35 INDIA ST, BOS SYSTEM NUMBER: BOSTON LP SYSTEMS' MOPS (PSIG, OR "LP"): LP (0.5 PSIG) EXPECTED OPERATING PRESSURE RANGE: 4.5 INWC - 14 INWC DESIGN DAY TEMPERATURE (F): 0°F MIN & MAX OPERATING TEMPERATURE RANGE (F): -20°F TO +73°F DESIGN FACTOR: 0.4

STREET NAME: INDIA ST SIZING RECOMMENDATION: 12IN ST NEW MAINS' DESIGN PRESSURE: 14 INWC DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 40 SINGLE FEED SYSTEM: NO

STREET NAME: INTERSECTION OF MILK ST/INDIA ST SIZING RECOMMENDATION: 8IN ST NEW MAINS' DESIGN PRESSURE: 14 INWC DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 5 SINGLE FEED SYSTEM: NO

REVIEWED BY: KASEY ELKIN. REVIEW DATE: 05/24/2022

SCOPE OF WORK:

NATIONAL GRID WORK ORDER NUMBER: 1474472

PROJECT NAME AND LOCATION: 9-35 INDIA ST, BOSTON, MA

PROJECT SCOPE: AS PART OF THE CIRE101214 PROGRAM, LPP INTEGRITY MANAGEMENT RECOMMENDS THE RELAY OF:

- APRX 140 FEET OF 12 INCH, LP CAST IRON (1849), APRX 5 FEET OF 12 INCH, LP COATED STEEL (1987) UBOS0321, APRX 50 FEET OF 12 INCH, LP COATED STEEL (1986) MBOS0023, APRX 215 FEET OF 12 INCH, LP CAST IRON (1849) AND APRX 5 FEET OF 12 INCH, LP COATED STEEL (1988) UBOS0542 WITH APRX 415 FEET OF 12 INCH, LP STEEL IN INDIA ST FROM THE EXST 12 INCH, LP COATED STEEL (1974) UBOS0459 AT STATE ST TO THE EXST 12 INCH, LP COATED STEEL (1997) MBOS0200 AT MILK ST
- APRX 10 FEET OF 6 INCH, LP CAST IRON (1924) WITH APRX 10 FEET OF 8 INCH, LP STEEL IN THE INTERSECTION OF INDIA ST AND MILK ST.

NOTE:

- 1. CONTACT INSTRUMENTATION AND REGULATION BEFORE WORKING WITHIN 200 FEET OF A REGULATOR STATION. BEFORE DOING TIE-IN, CONTACT GAS CONTROL, INSTRUMENTATION AND REGULATION, AND OPERATIONS ENGINEERING REGARDING POTENTIAL NEED TO SHUT DOWN THE STATION.
- 2. ALL CONTROL AND SENSE LINES ARE TO BE FIELD LOCATED PRIOR TO CONSTRUCTION. CONTACT I&R AND DAMAGE PREVENTION FOR CONTROL AND SENSE LINE FIELD LOCATION.
- 3. STEAM LINE IN CENTRAL ST. PLASTIC CANNOT BE INSTALLED WITHIN 18 FT OF THE STEAM LINE IN ACCORDANCE TO ENG04001 AND ENG02001

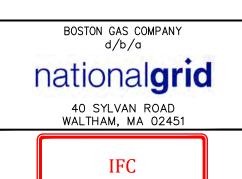
DDS COMPANIES

22"X34"

4. MBTA PERMIT REQUIRED TO PERFORM WORK IN STATE ST, BOS.



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B BOM UPDATE 09/20/2022 TSN DMJ MEP

A ISSUED FOR CONSTRUCTION 09/19/2022 TSN DMJ MEP

NO. DESCRIPTION DATE DR.BY CK.BY APP.BY 2/2022 DR.BY CK.BY APP

9-35 INDIA STREET
GAS MAIN REPLACEMENT
INDIA ST, STATE ST, CENTRAL ST, & MILK ST
BOSTON, MA

		B031	ON, MA					
OVERALL LAYOUT SHEET & MBTA DETAIL								
WG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:			

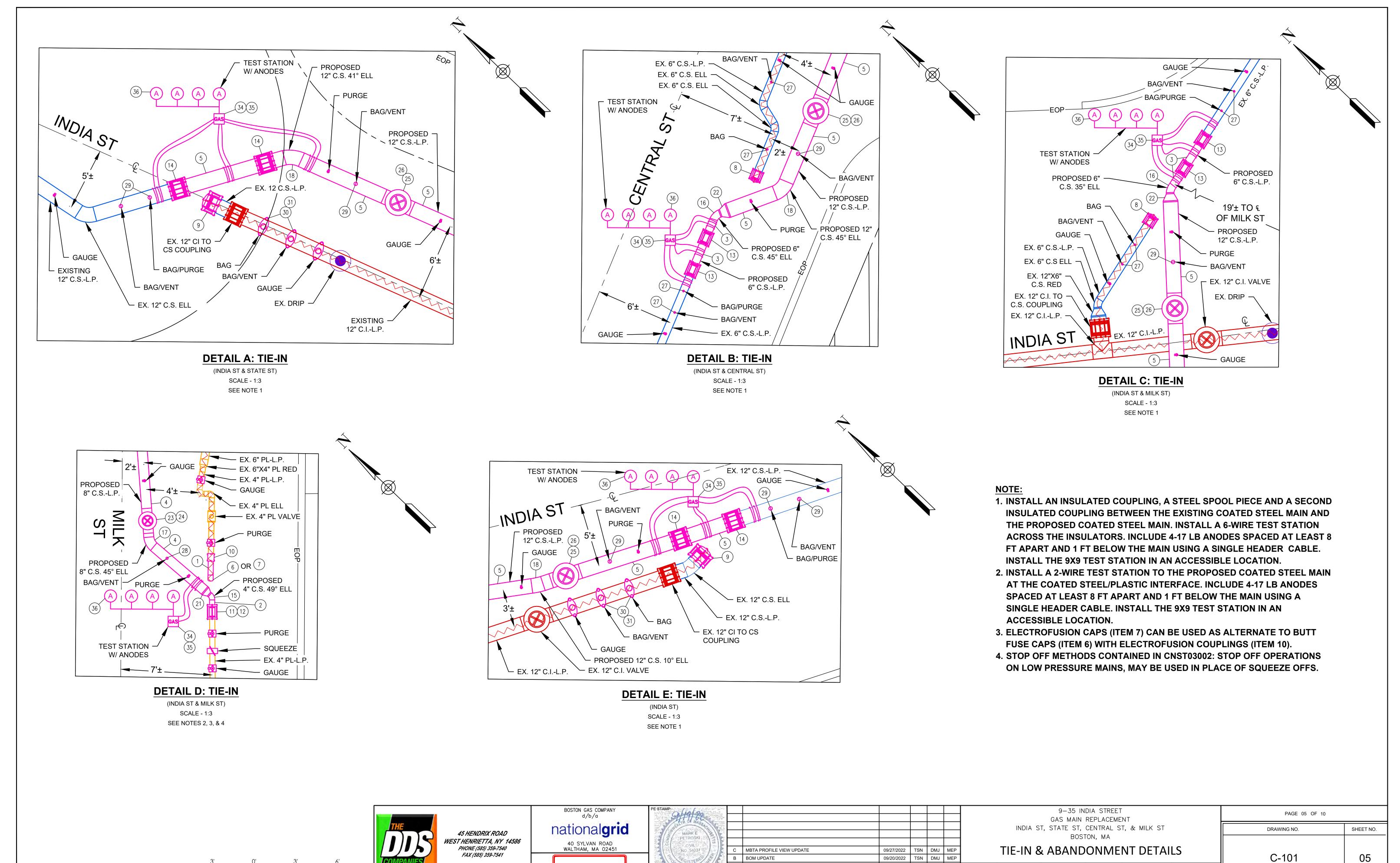
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PAGE 04 OF 10	
DRAWING NO.	SHEET NO.
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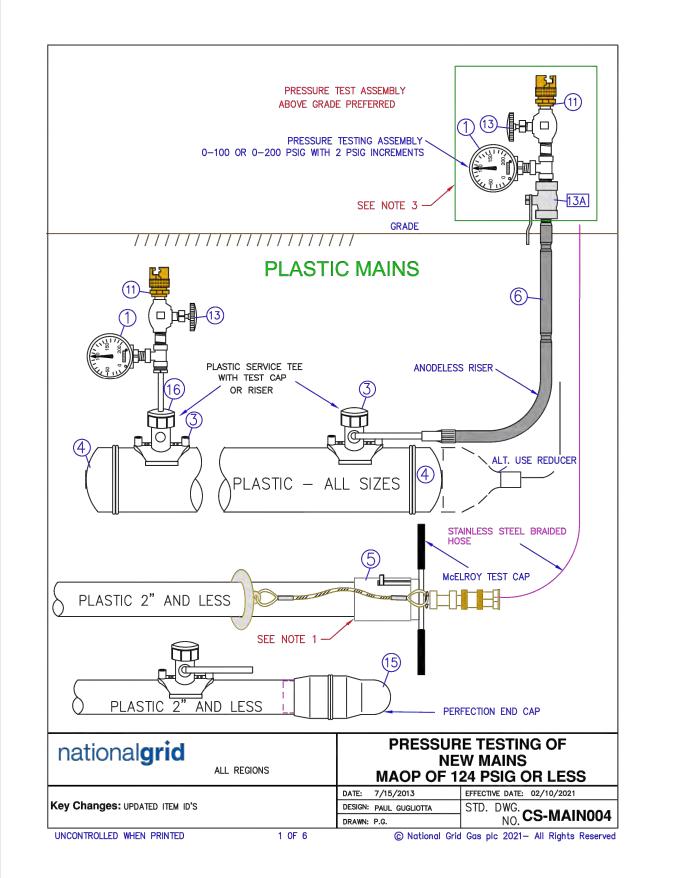
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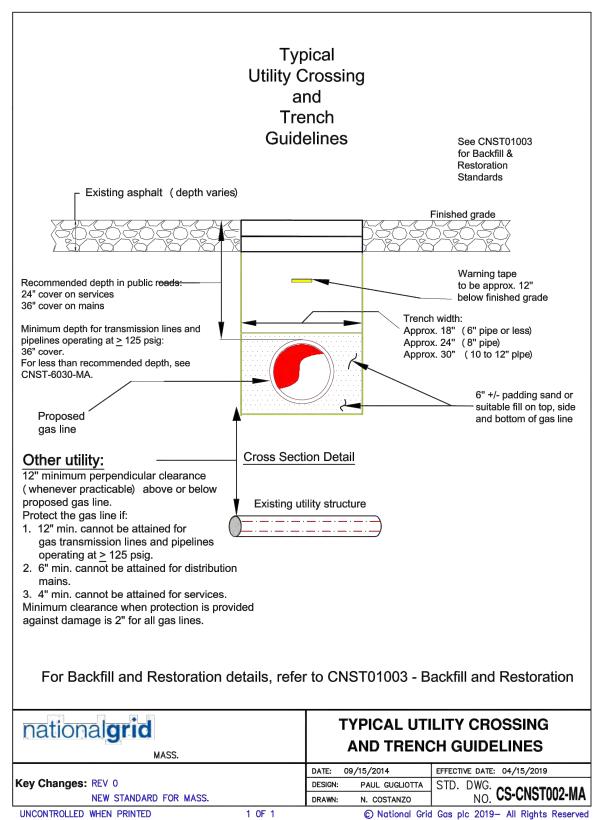
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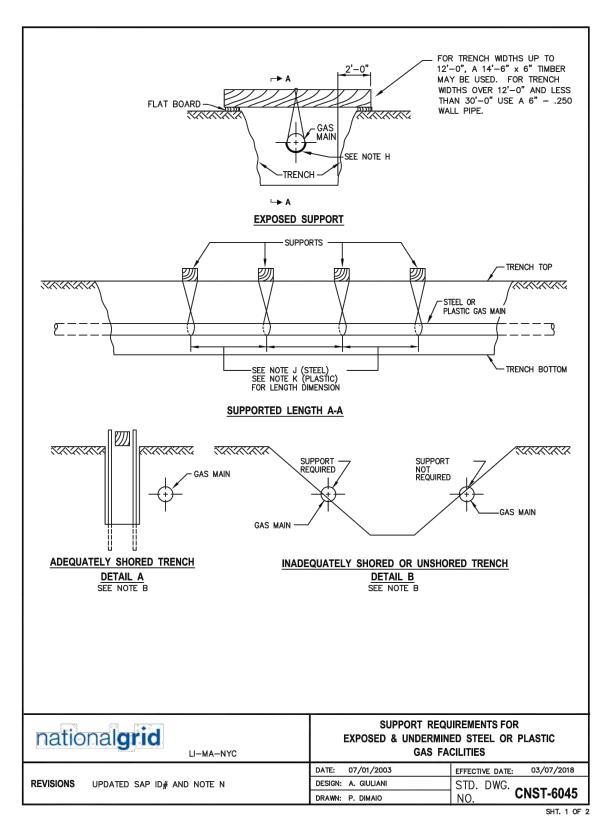
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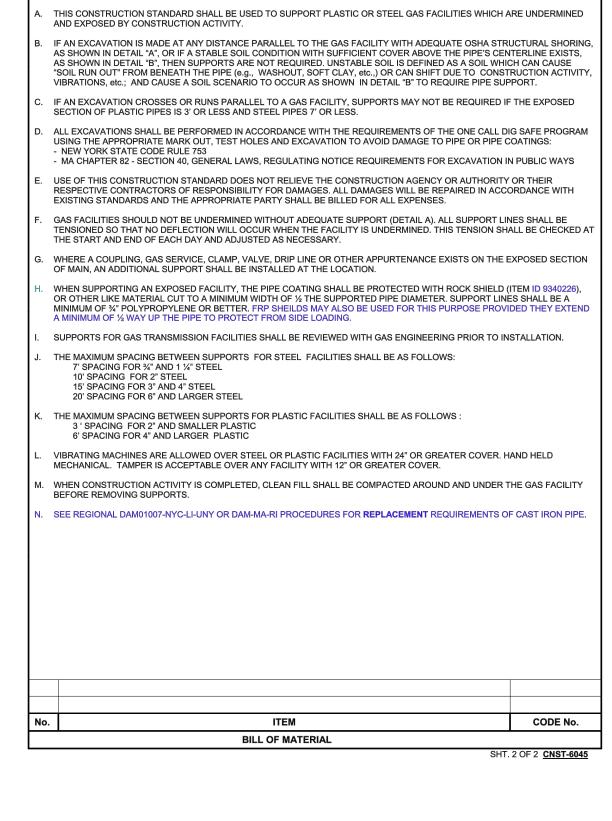
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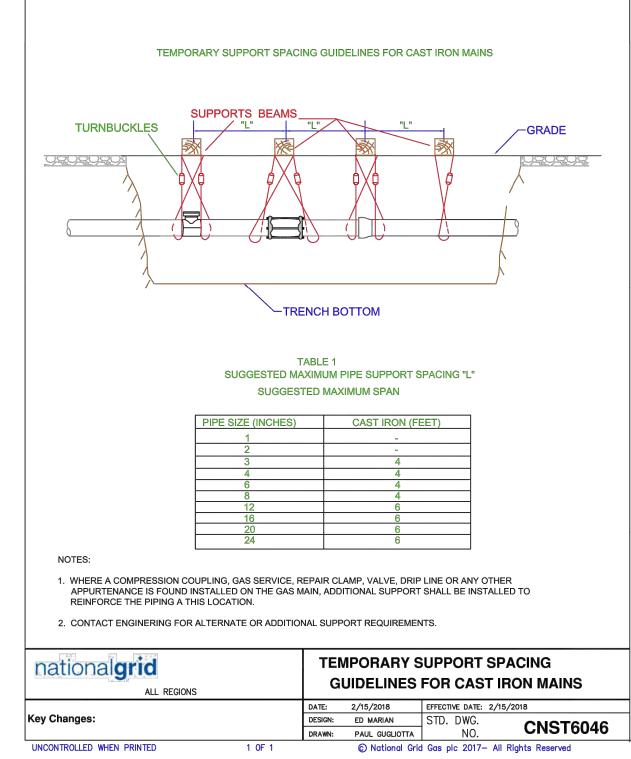
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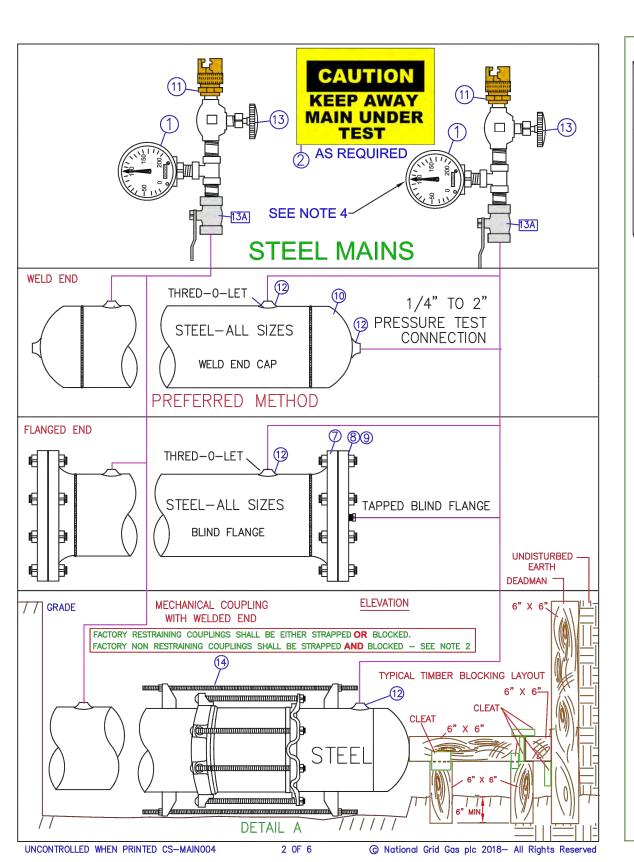


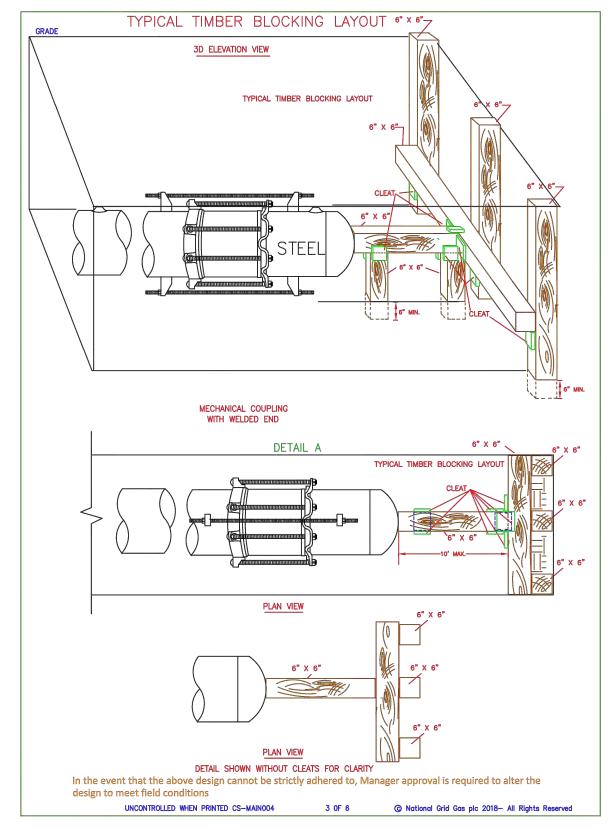


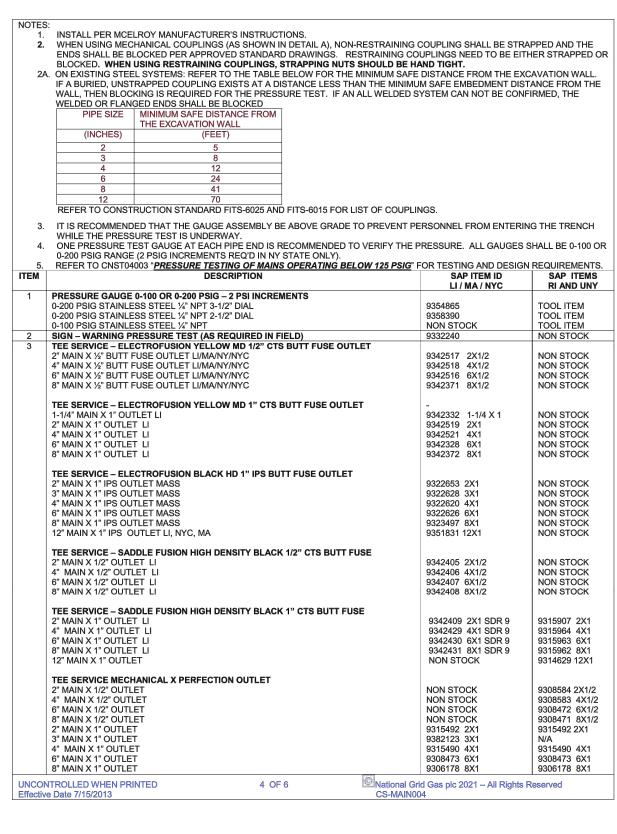


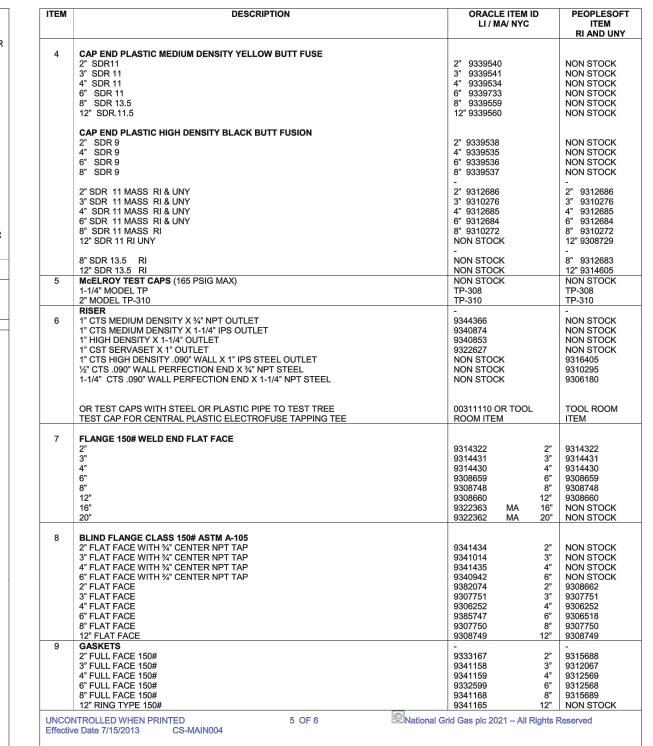








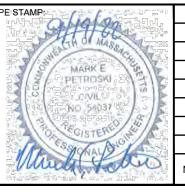




TEM	DESCRIPTION	ORACLE ITEM ID LI / MA / NYC	PEOPLESOFT ITEM RI AND UNY
10	END CAPS – STEEL WELD END STANDARD WALL –GRADE B		
	2"	9312095 2"	9312095
	3"	9308719 3"	9308719
	4"	9312096 4"	9312096
	6"	9312094 6"	9312094
	8"	9312093 8"	9312093
	10"	9315182 10"	9315182
	12"	9312092 12"	9312092
	16"	9314824 16"	9314824
	20"	9339687 20"	9314823
11	THOR FITTING	-	- NON STOCK
	1/2" MALE NPT X HOSE CONNECTION	00504089	NON STOCK
	3/4" FEMLAE X HOSE CONNECTION	00504301	NON STOCK
12	THRED-O-LET	-	-
	12" - 6" X ¾" 3000# PER ASTM A-105 GRADE B	9341652 12-6X3/4	NON STOCK
	10" – 6" X 1" 3000# PER ASTM A-105 GRADE B	9341656 10-6X1	NON STOCK
	36" – 12" X 1" 3000# PER ASTM A-105 GRADE B	9342052 36-12X1	NON STOCK
	2" X 1" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307678 2X1
	10" – 6" X 1" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307695 10-6X1
	36"-14" X ¾" 3000# PER ASTM A-105 GRADE B	NON STOCK	9307677 36-14X3/4
13	VALVE		
3A 14	VALVE (OPTIONAL – TO SHUT OFF TEST ASSEMBLY) LUG ASSEMBLY		
14	7/8" x 24" LONG (LI ONLY - SEE MAIN-6210)	9342211	NON STOCK
	7/8"X 44"LONG (LI ONLY - SEE MAIN-6210)	9342212	NON STOCK
	LUG GREEN 3"- 8"MAIN 7/8" DIAM. (NYC ONLY – SEE MAIN-6230 & MAIN-6230)	9357904	NON STOCK
	LUG YELLOW 10"- 30" MAIN 1-1/16" DIAM. (NYC ONLY – SEE MAIN-6230& MAIN-6230)	9357905	NON STOCK
	ROD 3/4" X 12' LONG (NYC ONLY	9328152	NON STOCK
	ROD 1" X 12" LONG (NYC ONLY)	9328150	NON STOCK
	LUG ASSEMBLY 3/2"X 30" LONG	NON STOCK	9315741
5	COUPLING - END 2" PERFECTION	NON STOCK	0803641
6	TEST CAP	•	TOOL ROOM
	FOR SADDLE FUSION TEE - CENTRAL PLASTICS	9325109	ITEM
	FOR SADDLE FUSION TEE- JM EAGLE / POLY / UPONOR	9325017	
	FOR SADDLE FUSION TEE – PERFORMANCE PIPE TEES	9341368	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION CENTAL PLASTICS	9384268	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION- JM EAGLE / POLY/ UPONOR	9384174	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION PERFORMANCE PIPE TEES	9323715	
	FOR HVTT ELECTROFUSION TEE	9382494	
	FOR ELECTROFUSION TEE	9381846	
	FOR PERFECTION PMTT MECHANICAL TEE (CAP FITS ALL MAIN SIZE & OUTLET SIZES OF PMTTS)	9339561	





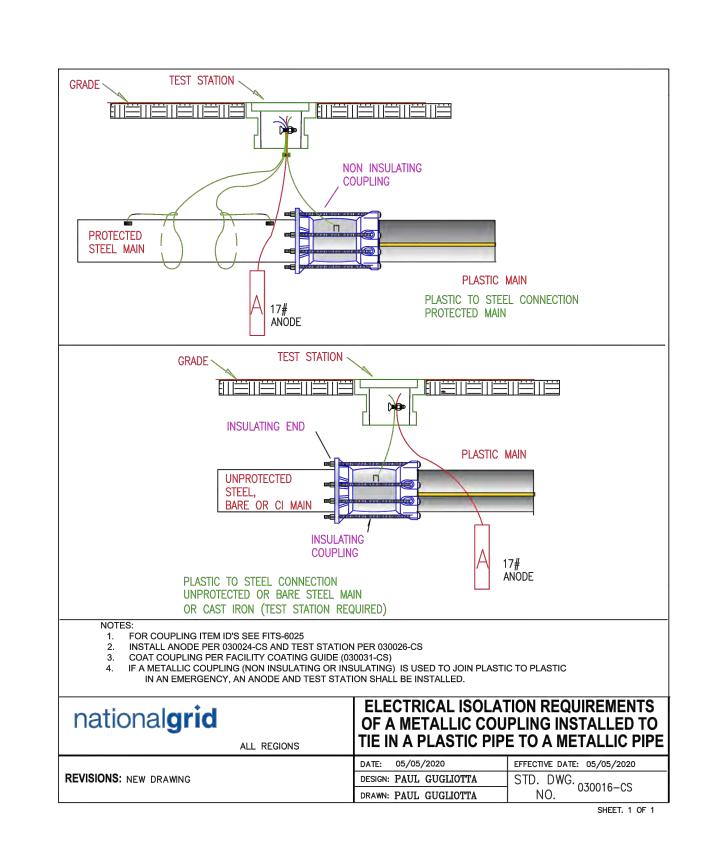


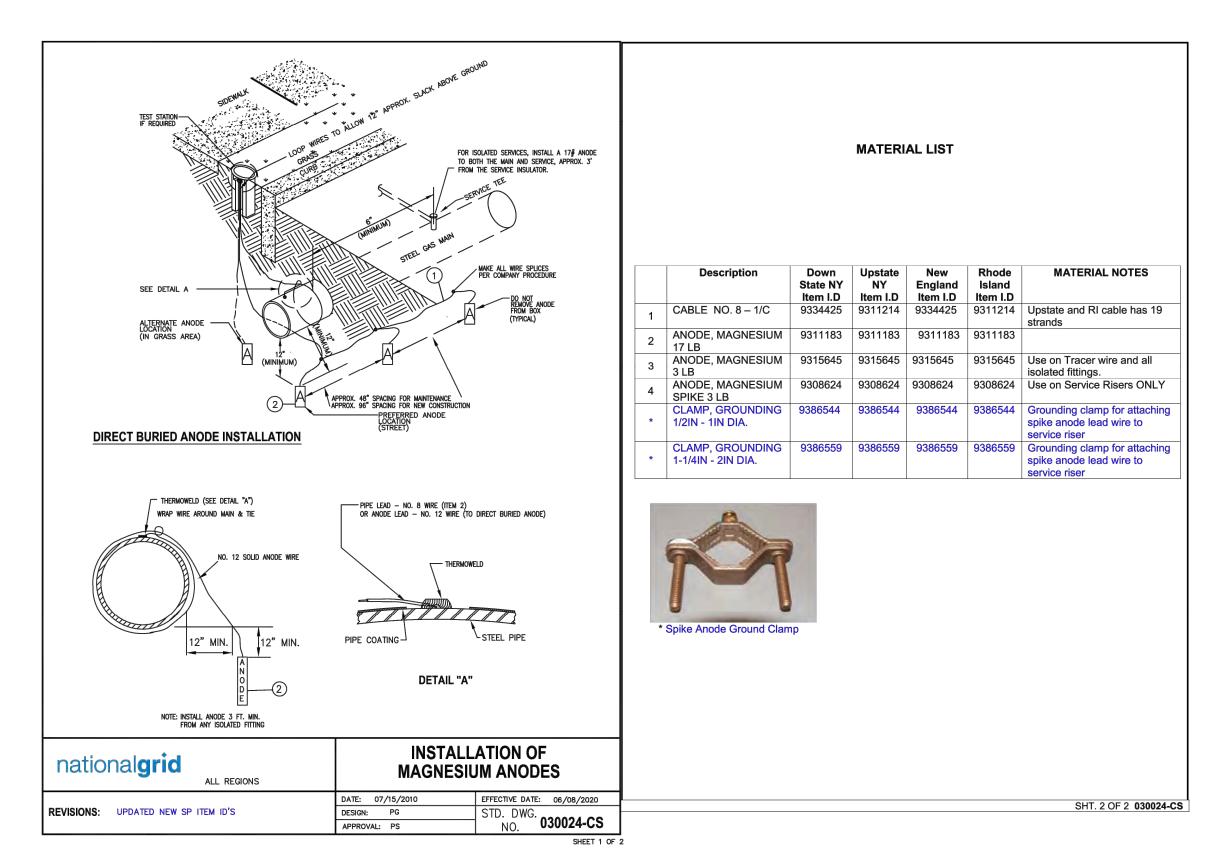
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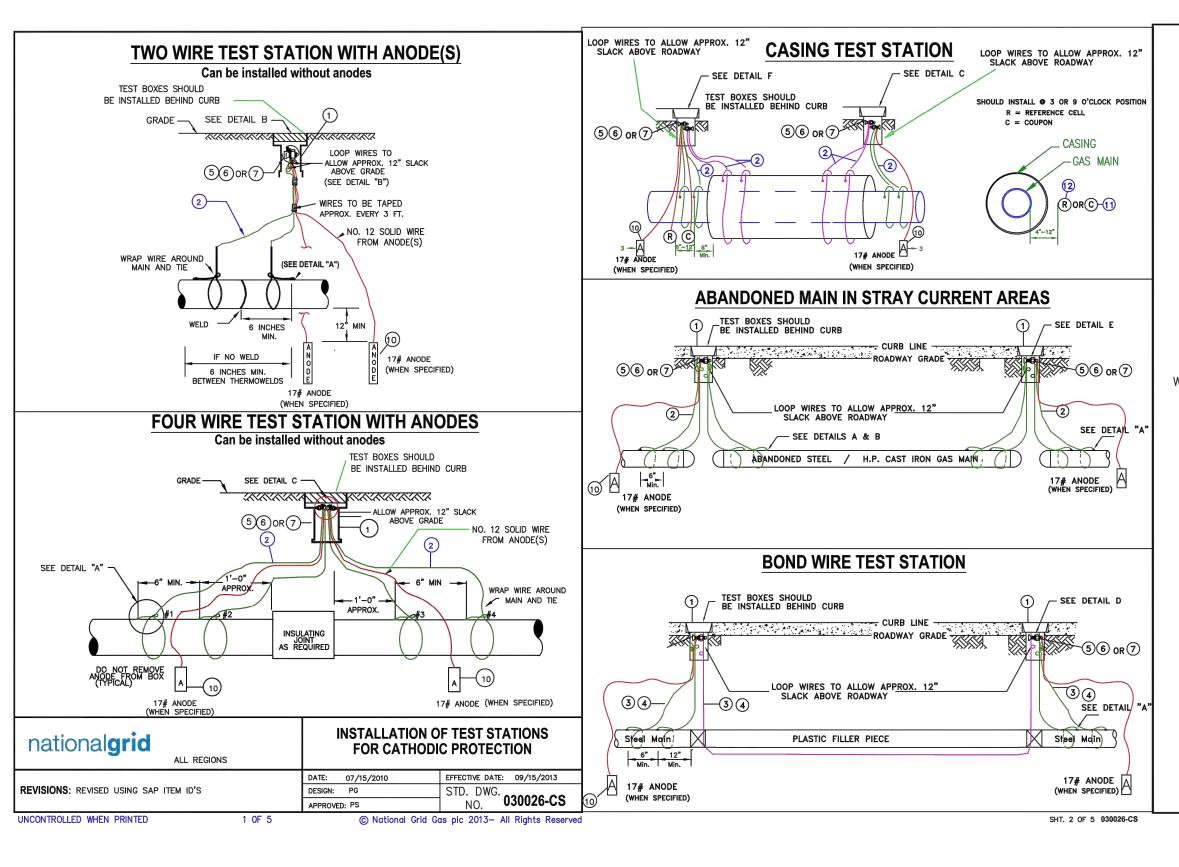
9-35 INDIA STREET GAS MAIN REPLACEMENT INDIA ST, STATE ST, CENTRAL ST, & MILK ST

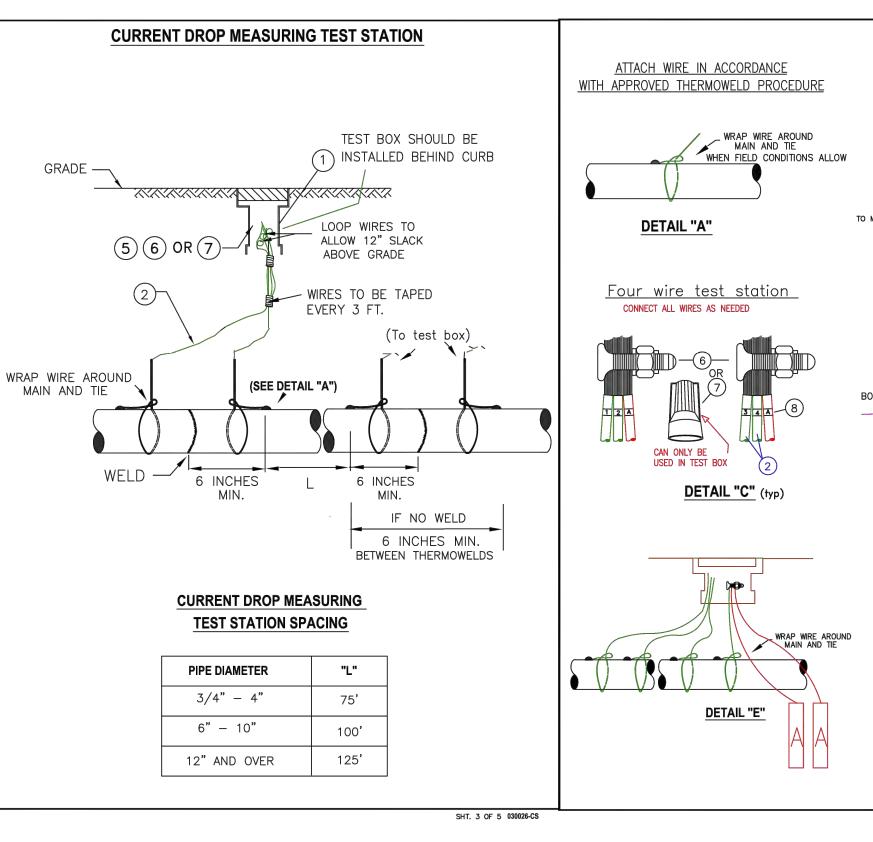
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PAGE 06 OF 10	
DRAWING NO.	SHEET NO.
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Two wire test station Shown with 2 anodes							
7) (6) OR				MATERIA	AL LIST		
TO ANODE CAN ONLY BE USED IN TEST BOX		Description	Down State SAP Item I.D	Upstate SAP Item I.D	New England SAP Item I.D	Rhode Island SAP Item I.D	MATERIAL NOTES
TO MAIN OR SHORT SIDE STEEL SERVICE	1	TEST BOX WITH COVER	9339892	9312291 UPSTATE BOXES COME IN ONE	9339892	(Sm - 445) 9311209 or (Lg - 556) in Prov. 9311208	NON LOCKING COVER. DISCARD FOOT PIECE.
DETAIL "B"		TEST BOX 9" SQUARE HEAVY DUTY	9339391	PIECE	9339391	3311200	WEIGHS 95 LBS, STREET USE, WITHOUT COVER
		COVER FOR 9" SQUARE BOX	9339797		9339797		NON-LOCKING COVER
	2	WIRE, NO. 8, 7 STRAND	9307539	9307539	9307539	9307539	TEST WIRE ONLY, NOT FOR GROUND BEDS, UPSTATE AND RI WIRE HAS 19 STRANDS.
_	3	WIRE, NO. 6, 7 STRAND	9311795	9311795	9311795	9311795	BOND WIRE ONLY, NOT FOR GROUND BEDS
WRAP WIRE AROUND MAIN AND TIE	4	WIRE 1/0 – 19 STRAND 600 V –1/C	9334171	NON STOCK	9334171	NON STOCK	USE IN STRAY CURRENT AREAS
The state of the s	5	TAPE, PVC - ¾" WIDE	9334056	9316070	9334056	9316070	NOT FOR PIPE COATING.
	6	CONNECTOR, SPLIT BOLT, TYPE 6	9331578	9316630	9331578	NON STOCK	USE WITH NO. 6 CABLE
DETAIL "D"		CONNECTOR, SPLIT BOLT, TYPE 1/01	9331612		9331612		USE WITH 1/0 CABLE
AA	7	CONNECTOR, TWIST-ON WIRE NUT	9330683	9314631	9330683	9314631	
0R 7	8	TAG, ADHESIVE NUMBER 1 NUMBER 2 NUMBER 3 NUMBER 4	9307918 9307896 9307895 9307894	9307918 9307896 9307895 9307894	9307918 9307896 9307895 9307894	9307918 9307896 9307895 9307894	LABEL WITH #1 (N) OR (E), CONSECUTIVELY TO (S) OR (W) SEE DETAILS "B" AND "C"
		LETTER A	9307893	9307893	9307893	9307893	USE TO LABEL ANODES
	9	GROUNDING CELL	NON STOCK	9315642	NON STOCK	NON STOCK	AS SPECIFIED BY CORROSION ENGINEERING
	10	ANODE, MAGNESIUM 17LBS	9311183	9311183	9311183	9311183	SATURATE WITH WATER BEFORE BACKFILL. ANODE MAY BE INSTALLED VERTICALLY OR HORIZONTALLY.
AIL "F" / /	11	COUPON	9386100	By Corrosion	9386100	By Corrosion	MC MILLER OR EQUAL
10 4"-12"	12	REFERENCE CELL	9385758	By Corrosion	9385758	By Corrosion	BORIN MFGR INC OR EQUAL
R C 6"-12" 6" MIN.							
# ANUDE							

1. CATHODIC PROTECTION DETAILS ARE NOT COVERED UNDER PE STAMP.



45 HENDRIX ROAD WEST HENRIETTA, NY 14586 PHONE (585) 359-7540 FAX (585) 359-7541

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9-35 INDIA STREET GAS MAIN REPLACEMENT INDIA ST, STATE ST, CENTRAL ST, & MILK ST

SHT. 4 OF 5 030026-CS UNCONTROLLED WHEN PRINTED

Effective Date 06/08/2020

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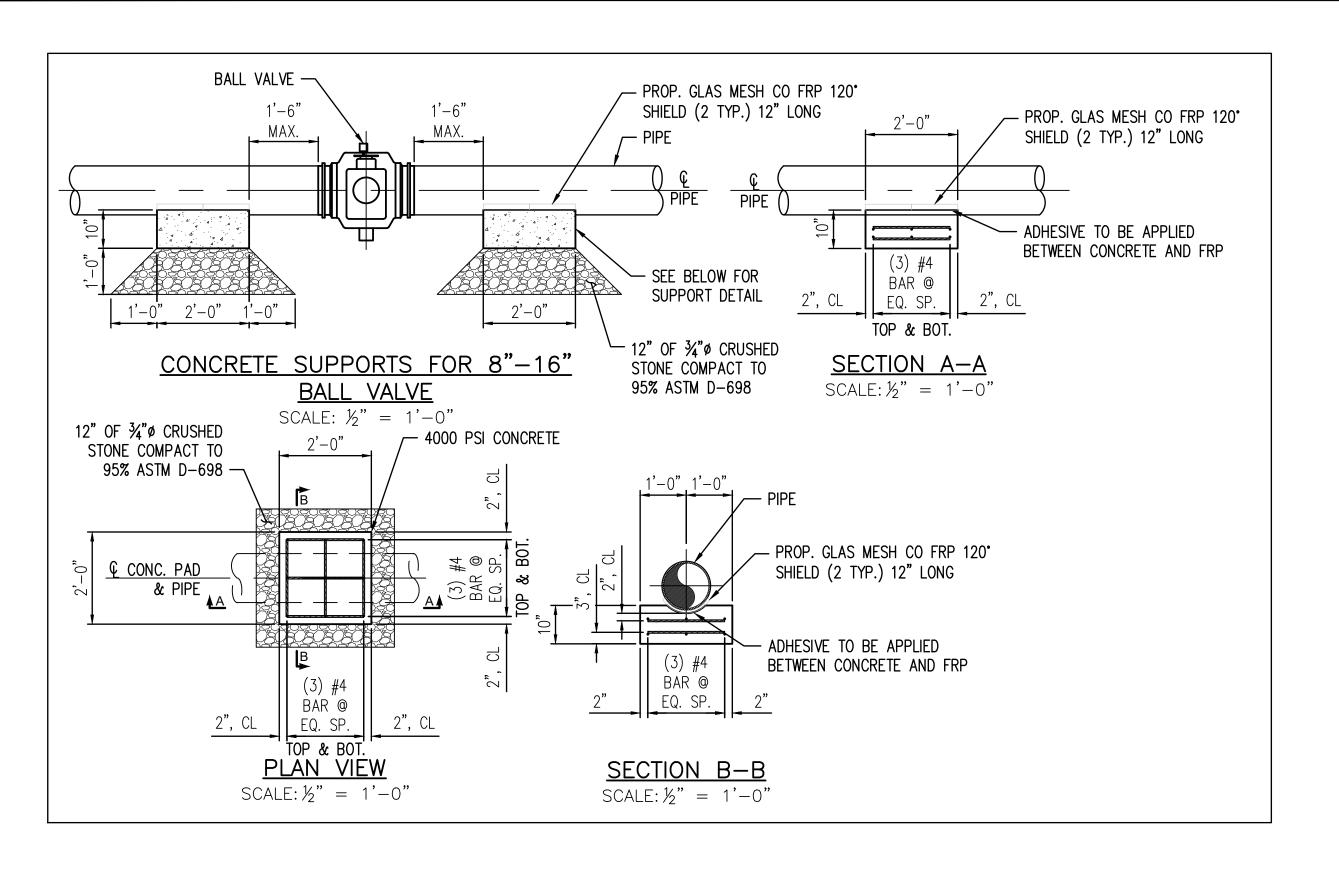
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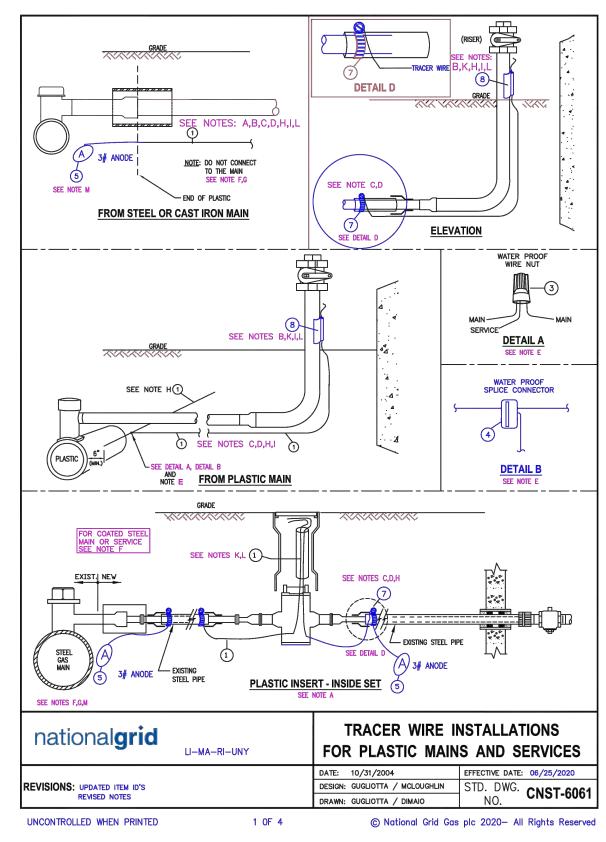
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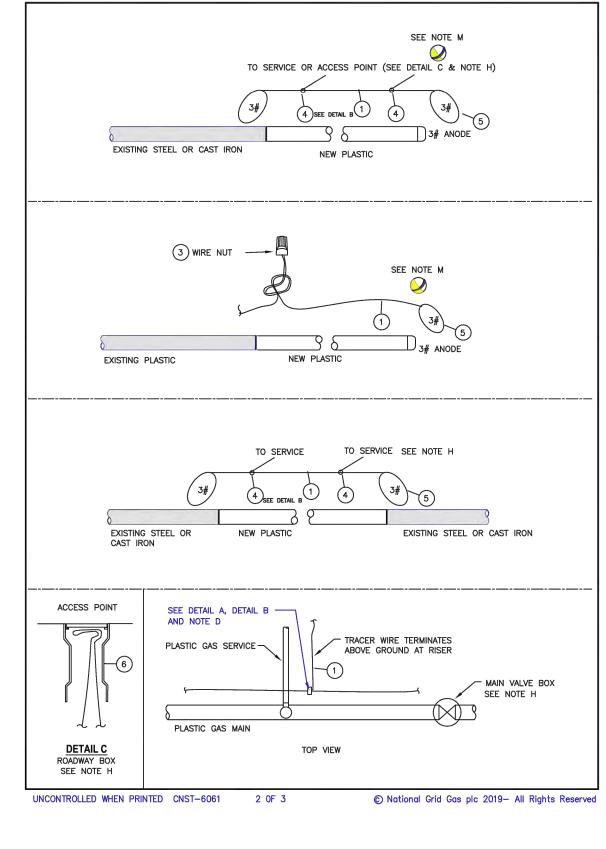
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UNY/RI MASS 9386134 9386134 TRACER WIRE SNAP, 2" (represents steel size) TRACER WIRE SNAP, 1 1/2" (represents steel size) 9386156 9386156 TRACER WIRE SNAP, 1" (represents steel size) 9386150 9386150 9385568 TRACER WIRE SNAP, 3/4" (represents steel size) CLAMP, STAINLESS 9331708 9312344 UNY VALVE BOX, ROADWAY 9339890 ANODE, 3 LB MAGNESIUM WIRE SPLICE CONNECTOR, WATERPROOF 9308036 9308036 WIRE NUT, PLASTIC, WATERPROOF 9331644 9314631 WIRE, DIRECTIONAL DRILL, STAINLESS, STRANDED 10 AWG 9314187 9314187 TRACER WIRE, DIRECT BURY, COPPER, 12 AWG 9315005 9315005 SAP ITEM ID BILL OF MATERIAL

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 <u>Installation of Test Stations for</u> <u>Cathodic Protection [030026-CS]</u> and <u>Installation of Test Stations for Cathodic Protection [COR04003]</u> 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 <u>Installation of Test Stations for Cathodic Protection [030026-CS]</u>.

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 Installation of Test Stations for Cathodic Protection [030026-CS] and Installation of Test Stations for Cathodic Protection [COR04003] 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.

© National Grid Gas plc 2019— All Rights Reserved 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

Effective Date 06/25/2020

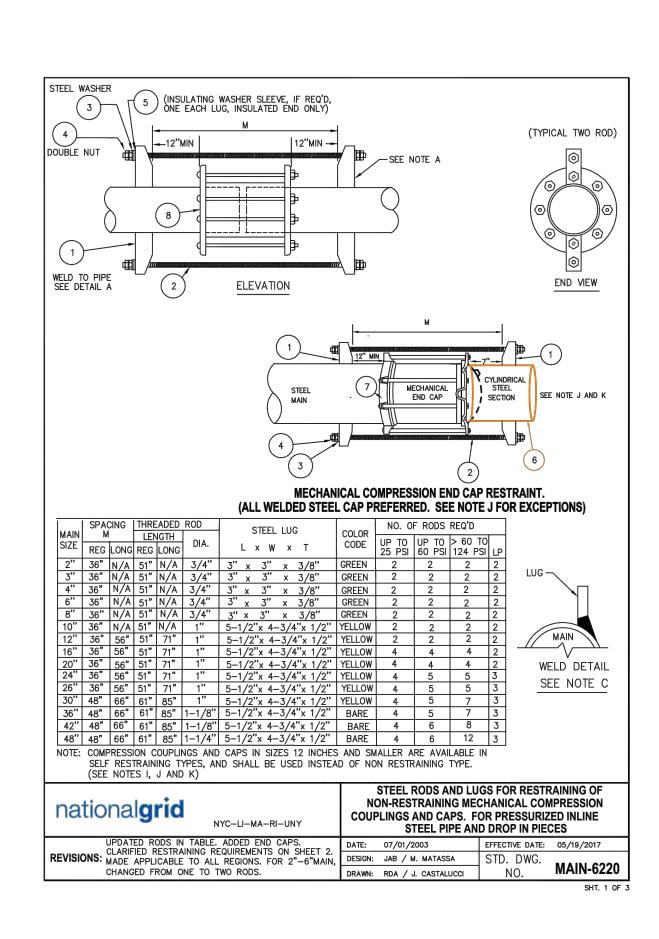
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CONCRETE NOTES:

- SOIL CONDITIONS SHOULD BE VERIFIED SUITABLE BY QUALIFIED INDIVIDUAL. SHOULD POOR SOIL CONDITIONS EXIST CONTACT PE&D FOR ALTERNATE VALVE SUPPORT DESIGN.
- CONCRETE SHALL BE CURED IN ACCORDANCE WITH ACI 308. COLD WEATHER CURING PROVISIONS SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH ACI 306R.
- 3. MIX DESIGNS TO BE SUBMITTED FOR **REVIEW & APPROVAL.**
- 4. SIDES OF SUPPORTS SHALL BE FORMED. REINFORCING - ALL REBAR SHALL BE EPOXY COATED GRADE 60 BILLET STEEL IN

ACCORDANCE WITH ASTM A-615.

- 6. ALL FORM WORK AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS AS WELL AS THE ACI
- TOP OF CONCRETE SHALL BE SCREEDED LEVEL AND TRUE TO FINISH ELEVATION AND SHALL BE GIVEN A WOOD FLOAT FINISH WITH STEEL TOOLED EDGES.
- 8. ALL REINFORCING SHALL BE NEW BILLET STEEL GRADE 60 IN ACCORDANCE WITH ASTM A-615 WITH DEFORMATION CONFORMING TO ASTM A-305. 3" CLEAR COVER TO TOP AND BOTTOM BARS.
- 9. ALL BARS SHALL BE SECURELY HELD IN PROPER POSITION WHILE PLACING CONCRETE, ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED AS REQUIRED.
- 10. CONCRETE FINISH SHALL BE FREE OF HONEYCOMB, ROCK POCKETS AND UNEVEN SURFACES.
- 11. IF CONCRETE IS PLACED IN FIELD, GAS PIPE SHALL BE TEMPORARILY SUPPORTED BY WOOD CRIBBING OR A SUITABLE PIPE SUPPORT FOR 3 DAYS, MIN. TO ALLOW ENOUGH TIME FOR CONCRETE TO CURE.



	DTES:		
	FOR LUG DESIGN SEE STANDARD DRAWING MAIN-6230. ROD THREADS TO BE NATIONAL COARSE AND CONFORM TO	ASTM A-193 GRADE B7	
	WELDING TO CONFORM TO WELDING POLICY - 030020-PI DEGREES F WHEN WELDING ON LUGS		TO 212
	FIELD COATING TO CONFORM TO COMPANY CORROSION SP MAKE UP ANCHORAGE NUTS WRENCH TIGHT.	ECIFICATIONS.	
F.	A MINIMUM OF THREE PASSES ON EACH SIDE IS REQUIRED I INSTALL ANODES AND TEST STATION AS PER STANDARD DR		
H.	FOR PRESSURES UP TO 60 PSIG , PIPE SHALL BE WELDED. TO TYPE COUPLINGS CAN BE USED FOR TIE IN CONNECTIONS A GAS READINGS PRESENT, FIELD PLANNING, ETC.). SELF RESTHREADED ROD RESTRAINT. SIZES LARGER THAN 12 INCHE	AS AN ALTERNATE TO WELDED CONNECTIONS (e.g., W BTRAINING COUPLINGS DO NOT REQUIRE FURTHER	HEN
	ONLY AND MUST BE RESTRAINED WHEN USED. SEE FITS-60 6015 FOR LIST OF NON RESTRAINING COUPLINGS.	25 FOR LIST OF SELF RESTRAINING COUPLINGS AND I	FITS-
١.	FOR PRESSURE ABOVE 60 PSIG AND UP TO AND INCLUDING CONNECTIONS ARE PREFERRED. SELF RESTRAINING COUPL		EIN
	CONNECTIONS AS AN ALTERNATE TO WELDED CONNECTION FIELD CONDITIONS, ETC.). SELF RESTRAINING COUPLINGS DIZES LARGER THAN 12 INCHES ARE COMMERCIALLY AVAILAWHEN USED. SEE FITS-6025 FOR LIST OF SELF RESTRAINING COUPLINGS.	OO NOT REQUIRE FURTHER THREADED ROD RESTRAIN ABLE IN NON RESTRAINING ONLY AND MUST BE RESTI	NT. RAINED
J.	WELD STEEL END CAPS SHALL BE USED TO PERMANENTLY: TO A FIELD CONDITION, THEN AN INVENTORY SELF RESTRAIN AND UP TO 60 PSIG), CAN BE USED. SELF RESTRAINING CAPFOR SELF RESTRAINING MECHANICAL CAPS.	INING MECHANICAL LINE CAP, (FOR UP TO 12 INCH DIA	AMETER
K.	SIZES LARGER THAN 12 INCHES ARE COMMERCIALLY AVAIL/ RESTRAINED IF USED. FOR THE DIAMETERS LARGER THAN 1		
	RESTRAINED IF USED. FOR THE DIAWETERS LARGER THAN THE RESTRAINING MECHANICAL CAPS IF USED SHALL BE RESTR NON-RESTRAINING MECHANICAL CAPS. WELDED STEEL END	AINED IN THE FIELD AS SHOWN HEREIN. SEE FITS-601	14 FOR
L.	CYLINDRICAL PIPE PUP TO BE PLACED UP AGAINST MECHAN PIPE USING THREADED ROD AND LUGS.	NICAL END CAP FOLLOWER RING AND SECURED TO HO	OST
RE	ESTRAINING REQUIREMENTS		
H.I	P. DESIGN		
	ESTRAIN ALL MECHANICAL NON SELF RESTRAINING COUPLING ESTRAIN ALL MECHANICAL NON SELF RESTRAINING COUPLING		
	PON UNEARTHING AN EXISTING IN-SERVICE UNRESTRAINED		
CC	DUPLING IS EMBEDDED IN THE EARTH BEFORE FULLY EXP NRESTRAINED COUPLING IS ENCOUNTERED IN THE FIELD, AND		
CC			
CC UN L.F	NRESTRAINED COUPLING IS ENCOUNTERED IN THE FIELD, AND	CHORAGE LUGS AND THREADED RODS SHALL BE INST	
CC UN L.F	NRESTRAINED COUPLING IS ENCOUNTERED IN THE FIELD, AND P. DESIGN ESTRAIN ALL MECHANICAL NON SELF RESTRAINING COUPLING ESTRAIN ALL MECHANICAL NON SELF RESTRAINING COUPLING	CHORAGE LUGS AND THREADED RODS SHALL BE INST	ALLED.

No.	ITEM	NGRID ID
1	LUG, STEEL GREEN (FOR 3/4" ROD) YELLOW (FOR 1" ROD) NO FINISH (FOR 1-1/8" ROD) NO FINISH (FOR 1-1/4" ROD)	9357904 9357905 9389887 9389931
2	ROD, THREADED, 12FT. LENGTH (SEE TABLE ON SHEET 1 FOR LENGTH REQUIRED) SEE NOTE B 1" 1-1/8" 1-1/4"	
3	WASHER, STEEL 3/4" 11" 1-1/8" 1-1/4"	9328206
4	NUT, HEX ALLOY STEEL (DIA. X THREADS PER INCH) 3/4" - 10 1" - 8 1-1/8" - 8 1-1/4" - 8	9328589 9389930
5	INSULATOR 3/4" 1" 1-1/8" 1-1/4"	9390817
6	CYLINDRICAL STEEL PIPE PUP, O.D. TO BE THE SAME AS NOMINAL COUPLING DIAMETER. (SEE NOTE K&L)	N/A
7	MECHANICAL END CAP (SEE FITS-6014 AND FITS-6024)	N/A
8	MECHANICAL COUPLING (SEE FITS-6025 AND FITS-6015)	N/A

UNCONTROLLED WHEN PRINTED 3 OF 3 Effective Date 05/19/2017

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DDS COMPANIES

DWG SIZE

22"X34"

nationalgrid 45 HENDRIX ROAD VEST HENRIETTA, NY 14586 PHONE (585) 359-7540 FAX (585) 359-7541



BOSTON GAS COMPANY

d/b/a

40 SYLVAN ROAD

WALTHAM, MA 02451

IFC

MP2						
Little Control						
ol mices						
MARK E						
	C	MBTA PROFILE VIEW UPDATE	09/27/2022	TSN	DMJ	MEP
- 1 1 1 1 1 1 1 1.	В	BOM UPDATE	09/20/2022	TSN	DMJ	MEP
SOLA D	Α	ISSUED FOR CONSTRUCTION	09/19/2022	TSN	DMJ	MEP
	NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.B

9-35 INDIA STREET GAS MAIN REPLACEMENT INDIA ST, STATE ST, CENTRAL ST, & MILK ST BOSTON, MA

STANDARD DETAILS DESIGNER **ENGINEER** DATE: ASSET I.D.

08/20/2022

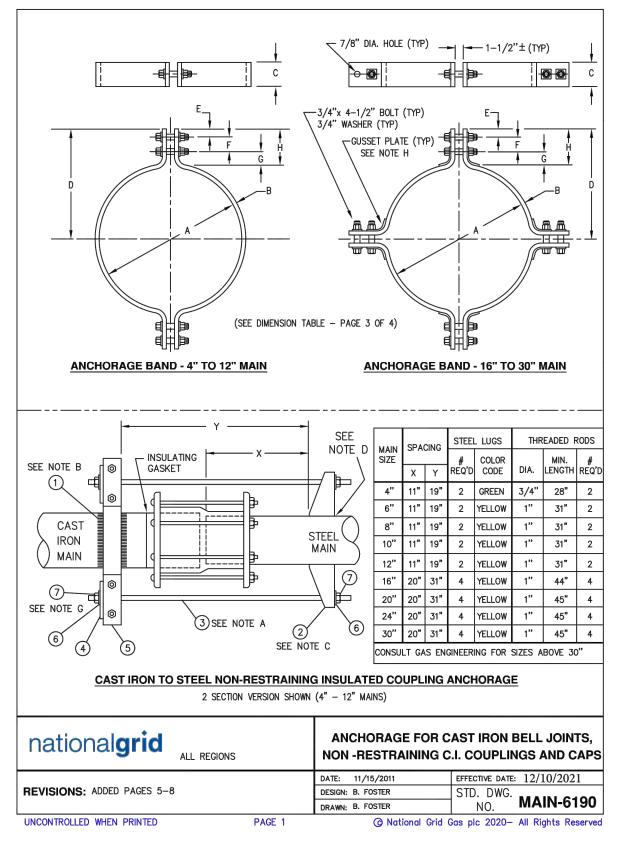
T. NOSAR

W.O. NO.:

1474472

XXXXXXX

PAGE 08 OF 10	
DRAWING NO.	SHEET NO.
C-203	08



ANCHORAGE BAND DIMENSIONS

ALL DIMENSIONS ARE IN INCHES

4" MAIN 6" MAIN 8" MAIN 10" MAIN 12" MAIN 16" MAIN 20" MAIN 24" MAIN

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GREEN (FOR 3/4") YELLOW (FOR 1") 9342536 9393346

9357672

9328152 9328150 9357904

9357905

NGRID ID

NUT, HEX ALLOY STEEL (SEE NOTE G)

WASHER PLATE (4" X 4" X 1/ 2" THICK)

BAND, STEEL (EACH SET COMPLETE WITH BAND NUTS, BOLTS & WASHERS)

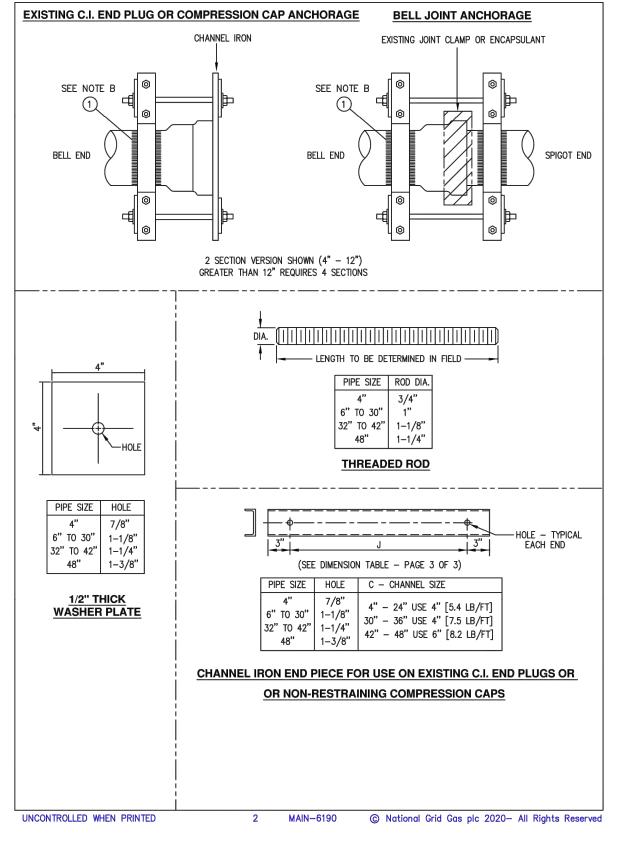
SYNTHOGLASS TAPE, 4" WIDE X 20 FT. ROLL (SEE NOTES B & I)

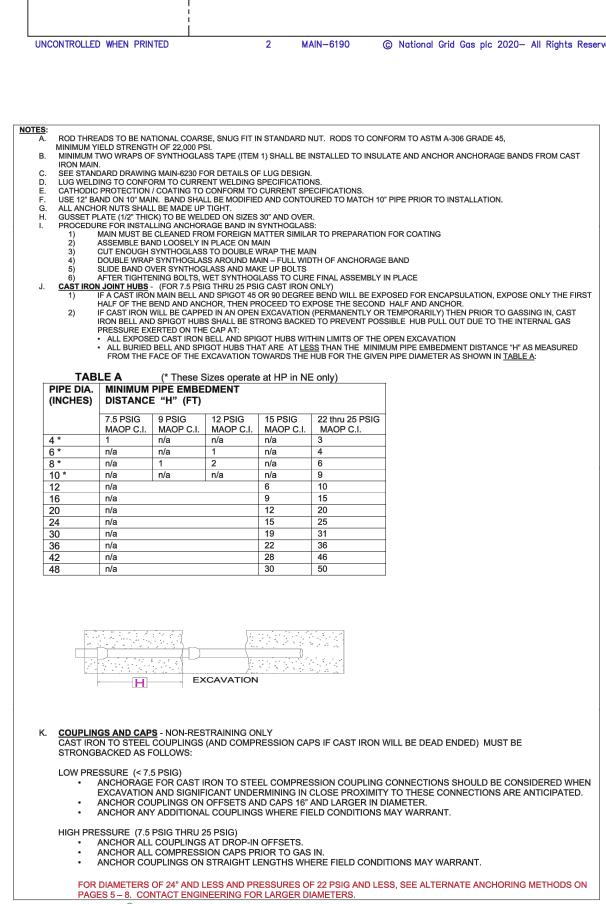
ROD, THREADED, 12FT. LENGTH (SEE TABLE ON SHEET 1 FOR LENGTH REQUIRED) SEE NOTE A

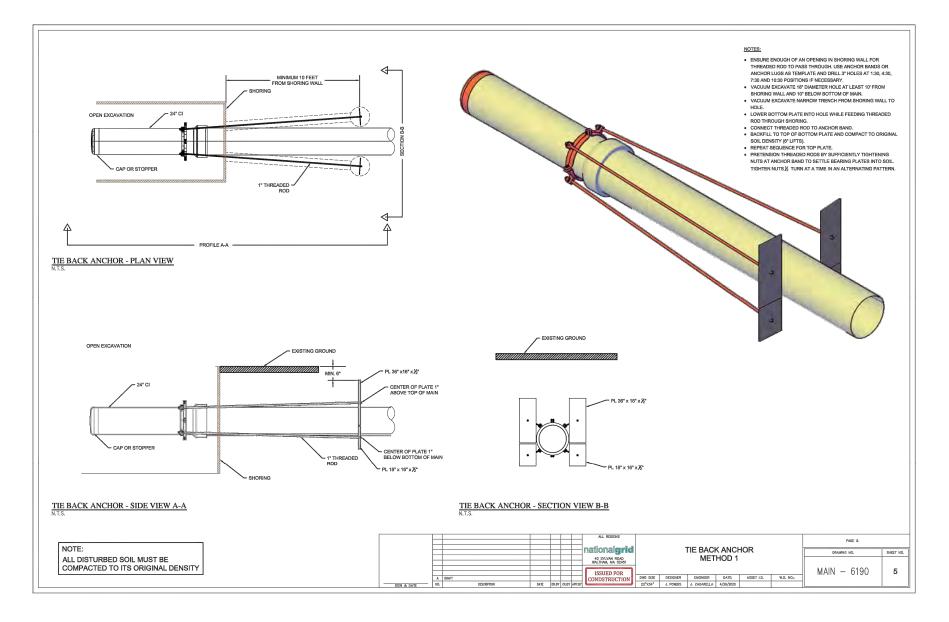
ITEM **BILL OF MATERIAL**

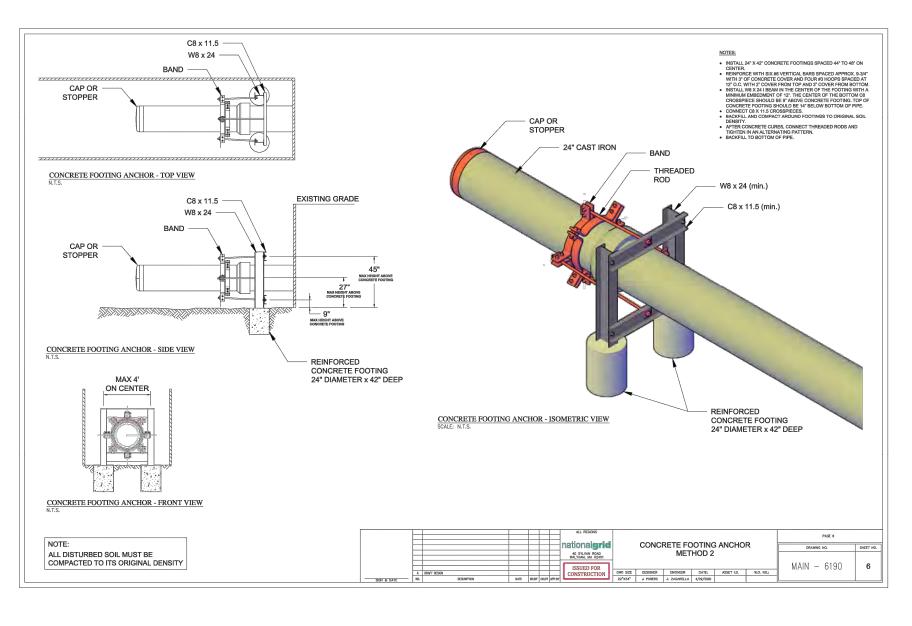
WASHER, STEEL

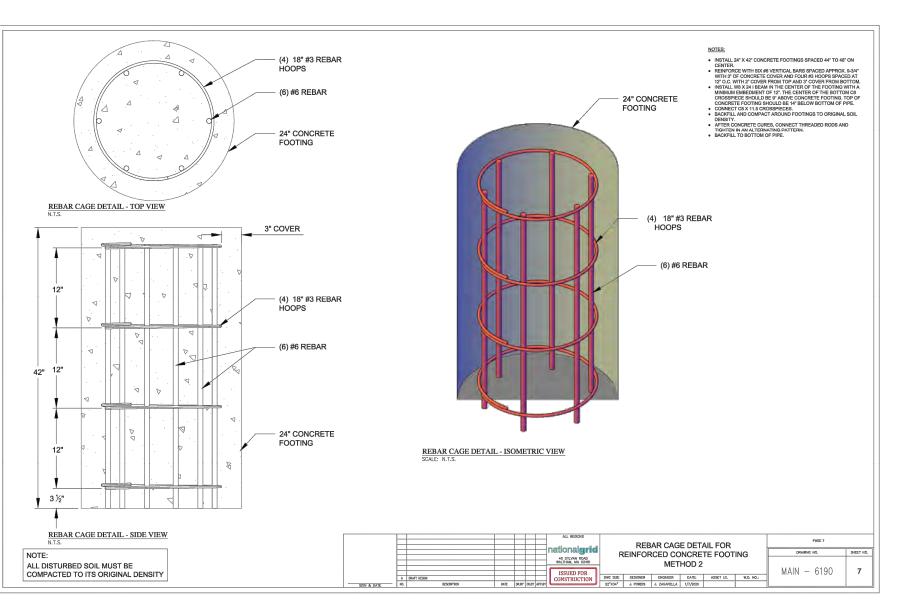
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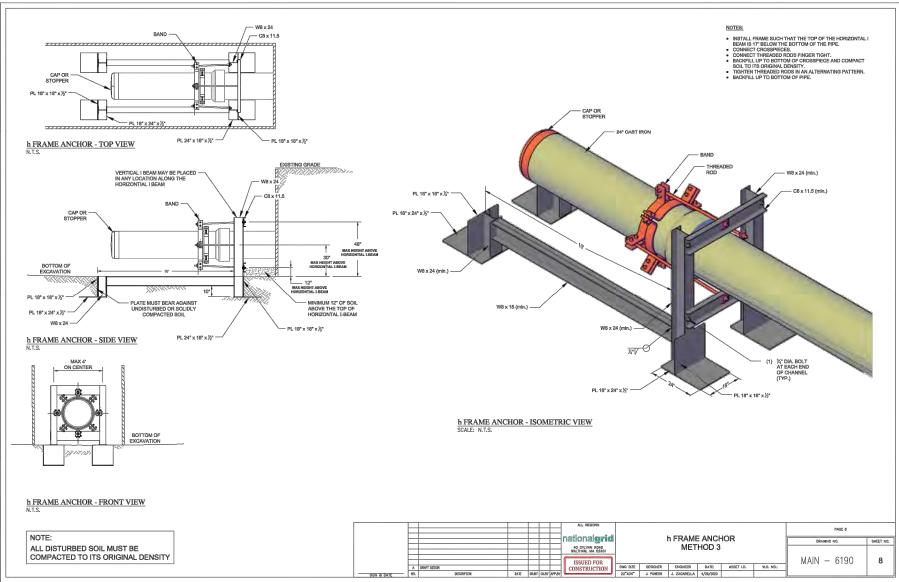














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45 HENDRIX ROAD VEST HENRIETTA, NY 14586 PHONE (585) 359-7540 FAX (585) 359-7541





11-11-6								
THO MAIN TOTAL								
MARK E								
	С	MBTA PROFILE VIEW UPDATE	09/27/2022	TSN	DMJ	MEP		
	В	BOM UPDATE	09/20/2022	TSN	DMJ	MEP		
SMOKAN	Α	ISSUED FOR CONSTRUCTION	09/19/2022	TSN	DMJ	MEP	DWG SIZE	Γ
	NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY		t

9-35 INDIA STREET GAS MAIN REPLACEMENT INDIA ST,

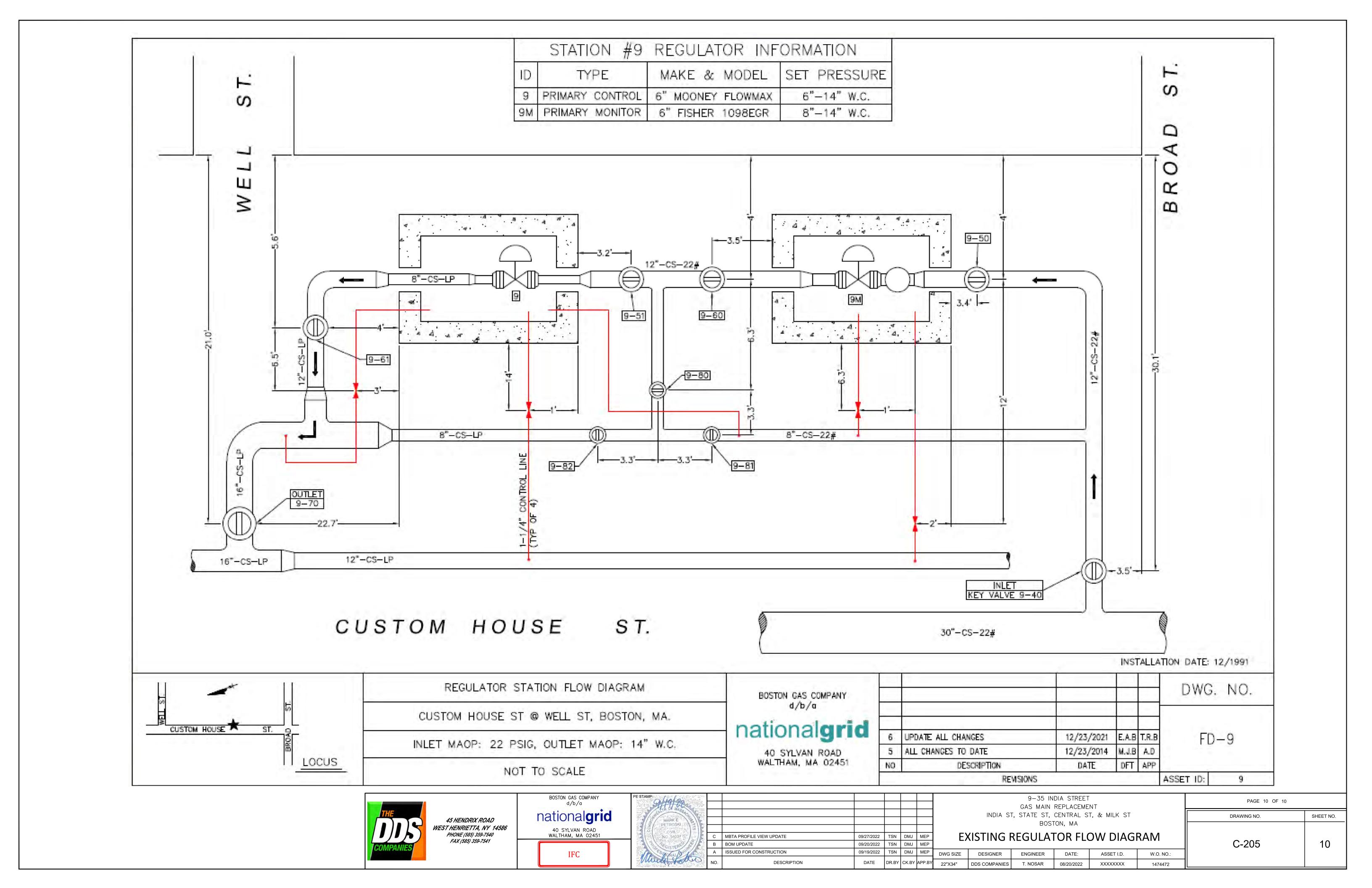
DESIGNER

DDS COMPANIES

-	T, STATE ST,		T, & MILK ST		DRAWING NO.
	BOST	TON, MA			
	STANDAF	RD DET	AILS		C-204
	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:	
	T. NOSAR	08/20/2022	XXXXXXXX	1474472	

PAGE 09 OF 10

SHEET NO.



ATTACHMENT C

PHOTOGRAPHIC LOG

Attachment C - Photographic Log



Client: National Grid Job Number: 23-5068-206-02

9 - 35 India Street **Site:** Boston, Massachusetts

Photograph No.: 1 Date: November 2020 Direction Taken: Southeast

Description: View of India Street and the approximate proposed gas main alignment at the intersection of India Street and State Street. Refer to the stamped project drawings.



Photograph No.: 2 Date: November 2020 Direction Taken: Southeast

Description: View of India Street and the approximate proposed gas main alignment at the intersection of India Street and Central Street. Refer to the stamped project drawings.



Attachment C - Photographic Log



Client: National Grid Job Number: 23-5068-206-02

9 - 35 India Street **Site:** Boston, Massachusetts

Photograph No.: 3 Date: November 2020 Direction Taken: Southeast

Description: View of India Street and the approximate proposed gas main alignment at the intersection of India Street and Milk Street. Refer to the stamped project drawings.



ATTACHMENT D

ABUTTER INFORMATION

Abutters Within 300-feet of the Project Area (9 - 35 India Street Gas Main Replacement Project) Zin Code Owner Mailing Address

Parcel ID	Address	City	Zip Code	Owner	Addressee	Mailing Address	City	State	Zip Code
303860000	75 STATE ST	BOSTON	02109	75 STATE OWNER LLC	WOODLAND HALL AT OLD PARKLAND	3953 MAPLE AVENUE SUITE 300	DALLAS	TX	75219
303823000	131 STATE ST	BOSTON	02109	TISHMAN SPEYER ARCHSTONE-	C/O STATE: LOCAL TAX	P.O. BOX 87407	CHICAGO	IL	60680
303755000	8 4 COMMERCIAL ST	BOSTON	02109	KELLEY GERALD F TRST	C/O THOMAS M DINNENAN	210 SOUTH ST	BOSTON	MA	02111
303822010	MCKINLEY SQ	BOSTON	02109	BOSTON REDEVELOPMENT AUTH		MCKINLEY SQ	BOSTON	MA	02109
303757000	156 STATE ST D	BOSTON	02109	ALOISI ANDREW TRST		156 STATE	BOSTON	MA	02109
303738000	21 MERCHANTS RO 5	BOSTON	02109	OSHIMA HAROLD HTS		21 MERCHANTS RO #5	BOSTON	MA	02109
303747000	100 STATE ST 1	BOSTON	02109	LINEAR RETAIL BOSTON #2 LLC MASS LLC	C/O KEYPOINT PARTNERS LLC	ONE BURLINGTON WOODS DR	BURLINGTON	MA	01803
303757000	156 STATE ST	BOSTON	02109	INSURANCE LIBRARY ASSN		156 STATE	BOSTON	MA	02109
303738000	21 MERCHANTS RO 3	BOSTON	02109	MLG MERCHANTS ROW LLC	C/O MICHAEL GRUBER	16 FOREST ST	LEXINGTON	MA	02421
303747000	100 STATE ST 4	BOSTON	02109	STATE STREET CENTURY LLC		100 STATE ST 9TH FL	BOSTON	MA	02109
303738000	21 MERCHANTS RO 1	BOSTON	02109	ANCHOR LLC	C/O CRESSET MANAGEMENT	120 WATER ST 2ND FL	BOSTON	MA	02109
303757000	156 STATE ST F	BOSTON	02109	LLS PROPERTY LLC A MASS LLC	C/O BRUCE LANDAY	156 STATE ST 5TH FLOOR	BOSTON	MA	02109
303757000	158 154 STATE ST	BOSTON	02109	INSURANCE LIBRARY ASSN CONDO TR		158 STATE	BOSTON	MA	02109
303747000	100 STATE ST 3	BOSTON	02109	STATE STREET THIRD LLC		100 STATE STREET, UNIT 3	BOSTON	MA	02109
303790000	200 STATE ST	BOSTON	02109	MBTA		200 STATE ST	BOSTON	MA	02109
303747000	100 110 STATE ST	BOSTON	02109	ONE-HUNDRED STATE ST CONDO	C/O STATE ST MERCHANTS ROW	160 FEDERAL ST	BOSTON	MA	02110
303747000	100 STATE ST 6	BOSTON	02109	SIXTH FLOOR BOSTON LLC MASS LLC		100 STATE ST 6TH FL	BOSTON	MA	02109
303738000	21 MERCHANTS RO 2-B	BOSTON	02109	CLEARY MARY		21 MERCHANTS RO	BOSTON	MA	02109
303790000	200 STATE ST RETAIL	BOSTON	02109	GAZIT HORIZONS (MARKETPLACE) LLC	C/O GAZIT HORIZONS INC	1696 NE MIAMI GARDENS DR	NORTH MIAMI BEACH	FL	33179
303747000	100 STATE ST 11	BOSTON	02109	STATE STREET 1011 LLC A MASS LLC		100 STATE ST SUITE 11	BOSTON	MA	02109
303747000	100 STATE ST 5	BOSTON	02109	BADAWI BASEL		100 STATE ST, UNIT 5	BOSTON	MA	02109
303757000	156 STATE ST E	BOSTON	02109	ADVANCED COSMETIC AND	ADV COSMETIC & IMP DENTISTRY	197 BARNSTABLE RD	HYANNIS	MA	02601
303738000	7 21 MERCHANTS RO	BOSTON	02109	TWENTY 1 MERCHANTS ROW		7 MERCHANTS RO	BOSTON	MA	02109
303738000	21 MERCHANTS RO 4-B	BOSTON	02109	MG PROPERTY LLC MASS LLC		21 MERCHANTS RO 4TH FLR	BOSTON	MA	02109
303841000	130 120 WATER ST	BOSTON	02109	ONE 30 WATER ST ASSOCIATES LLC	C/O CRESSET DEVELOPMENT LLC	130 WATER ST	BOSTON	MA	02110
	5 9 BROAD ST	BOSTON	02109	NINE BROAD ST LLC MASS LLC		9 BROAD ST	BOSTON	MA	02109
303827000	55 57 BROAD ST	BOSTON	02109	AAA BOSTON RE LLC		120 MILK ST	BOSTON	MA	02110
303747000	100 STATE ST 8	BOSTON	02109	HINDS WALTER		100 STATE ST FL11	BOSTON	MA	02111
303747000	100 STATE ST 2	BOSTON	02109	MM LAW LLC MASS LLC	C/O MICHAEL W. MERRILL	100 STATE ST 2ND FLOOR	BOSTON	MA	02112
303747000	100 STATE ST 7	BOSTON	02109	PANAGIOTOPOULOS CHRISTOS	C/O MARATHON STAFFING	164 WESTFORD RD	TYNGBORS	MA	01879
303922000	158 156 MILK ST	BOSTON	02109	MARSHALL ST HISTORICAL		158 MILK	BOSTON	MA	02109
303826000	49 47 BROAD ST	BOSTON	02109	HUB PARKING LLC MASS LLC		74A CLARENDON ST	BOSTON	MA	02116
303738000	21 MERCHANTS RO 2-A	BOSTON	02109	CANBUR INC MASS CORP	C/O JOHN CANESI	21 MERCHANTS ROW #2A	BOSTON	MA	02109
303754000	64 65 CHATHAM ST	BOSTON	02109	HAPPY FAMILY LP MASS LP	C/O JILL LEE	PO BOX 590688	NEWTON	MA	02459
303790000	200 STATE ST OFFICE	BOSTON	02109	CP 200 STATE LLC		1615 L ST NW SUITE 650	WASHINGTON DC		20036
303747000	100 STATE ST 10	BOSTON	02109	NUCLEUS HOLDING LLC MASS LLC	C/O NUCLEUS RESEARCH	100 STATE ST 10TH FLR	BOSTON	MA	02109
303742000	55 56 CHATHAM ST	BOSTON	02109	BOSTON EDISON COMPANY	NSTAR ELECTRIC CO PROP TAX	PO BOX #270	HARTFORD	СТ	06141
303822110	3 MCKINLEY SQ	BOSTON	02109	MARRIOTT OWNERSHIP RESORTS		3 MCKINLEY SQ #803	BOSTON	MA	02109
303758000	150 152 STATE ST	BOSTON	02109	LDJ DEVELOPMENT LLC	C/O PREMIER PROPERTY SOLUTIONS LLC	190 HIGHT ST 6TH FL	BOSTON	MA	02110
303832000	119 121 WATER ST	BOSTON		BROAD & WATER LLC MASS LLC	C/O MITCHELL WILSON	109 CHESTNUT ST STE 32	BOSTON	MA	02116
303837000	BROAD ST	BOSTON		CITY OF BOSTON		BROAD	BOSTON	MA	02109
303748000	92 90 STATE ST	BOSTON	02109	STEAMBOAT REALTY LLC	C/O JAMES L. RUDOLPH	92 STATE ST #4TH FLR	BOSTON	MA	02109
303806000	175 177 STATE ST 3	BOSTON	02109	M NEWMAN FAMILY LP	C/O NEWMAN & NEWMAN PC	1 MCKINLEY SQ	BOSTON	MA	02109
303864000	109 STATE ST	BOSTON	02109	BBS REAL ESTATE GROUP LLC	C/O DANIEL RENE COMM REAL ESTATE	109 STATE ST STE 301	BOSTON	MA	02109
303998000	54 62 BROAD ST	BOSTON	02109	AMAN INC DEL CORP	C/O SPAULDING & SLYE	21 CUSTOM HOUSE ST	BOSTON	MA	02110
303824000	36 44 BROAD ST	BOSTON	02109	40 BROAD STREET OWNER INC	C/O ASSET MGR 40 BROAD STREET	2001 ROSS AVE STE 3400	DALLAS	TX	75201
303752000	61 63 CHATHAM ST	BOSTON	02109	JOHNSON CHATHAM LLC		26 WYLLIS AV	EVERETT	MA	02149
303807000	183 STATE ST 7	BOSTON	02109	DER HAGOPIAN MARK A TS	C/O MARK DER HAGOPIAN	655 BOYLSTON	BOSTON	MA	02116
303914000	150 146 MILK ST	BOSTON	02109	JENNEY BUILDING ASSOCS LPS	C/O JOSEPH CAREY	100 WELLS AV	NEWTON	MA	02459
303806000	175 177 STATE ST 1A	BOSTON		FIRST-177 RLTY CO LLP MASS LLP		1430 MASSACHUSETTS AV 3RD FL	CAMBRIDGE	MA	02138
303680000	10 MERCHANTS RO	BOSTON		INDIA BUILDING LLC	RYAN LLC	ONE INTERNATIONAL PL 18TH FLOOR	BOSTON	MA	02110
303744000	CHATHAM RO	BOSTON		MASSACHUSETTS BAY TRANS AUTH		CHATHAM RO	BOSTON	MA	02109
			,		1	-	1	<u> </u>	لــــــــــــــــــــــــــــــــــــــ

202840000	33 BROAD ST	BOSTON 02109	TERRA FIRMA-33 BROAD LLC	C/O LINCOLN PROPERTY COMPANY	53 STATE ST 7TH FL	BOSTON	MA	02109
303836000	15 19 BROAD ST	BOSTON 02109	REALTY ASSOCIATES FUND XII PORTFOLIO LP	C/O TA REALTY LLC	28 STATE ST, UNIT FL 10	BOSTON	MA	02109
	183 STATE ST 3	BOSTON 02109	E & W HALL REALTY LLC MASS LLC	C/O TA REALIT LLC	183 STATE ST #3	BOSTON	MA	02109
303923000	152 154 MILK ST	BOSTON 02109	PAPPAS CHRIS I TRST		77 CENTRAL ST	BOSTON	MA	02109
303923000	CLINTON ST	BOSTON 02109	ASHKENAZY ACQUISITION CORP		433 FIFTH AVE SUITE 200	NEW YORK	NY	10016
303070000	52 54 CHATHAM ST	BOSTON 02109	BOSTON EDISON CO	NSTAR ELECTRIC CO PROP TAX	PO BOX # 270	HARTFORD	CT	06141
	175 177 STATE ST 5	BOSTON 02109	THREETHREEONE HOLDINGS LLC	THREE THREE ONE HOLDINGS LLC	ONE MCKINLEY SQ 5TH FLR	BOSTON	MA	02109
303806000		BOSTON 02109		THREE THREE ONE HOLDINGS LLC				10001
	4 LIBERTY SQ 31 35 INDIA ST	BOSTON 02109	4 LIBERTY MA LLC 31-35 INDIA STREET REALTY TRUST	C/O HUGH MELLOR II	226 5TH AVENUE 3RD FLOOR 555 HIGH STREET #103	NEW YORK WESTWOOD	MA	02090
			1	C/O HOGH MELLOR II	76 CENTRAL		MA	02090
	76 74 CENTRAL ST	BOSTON 02109 BOSTON 02109	MCKINELY SQUARE CONDO ASSN			BOSTON		02109
	175 177 STATE ST		MASSACHUSETTS ASSOCS OF	AAACNIAN CRAIZZARO 8 ACCOCIIIC	1 MCKINLEY SQ #2 &	BOSTON	MA	
	50 52 BROAD ST	BOSTON 02109	FIFTY BROAD LLC MASS LLC	MAGNAN GRAIZZARO & ASSOC LLC	52 BROAD ST - 4TH FL	BOSTON	MA	02109
303828000	118 MILK ST	BOSTON 02109	TWENTY TWO LLC MASS LLC	C/O 22 LLC -MATT PICCIONE LLC	4 PEPPERHILL DR	WINCHESTER	MA	01890
303807000	183 STATE ST 1	BOSTON 02109	DERHAGOPIAN MARK A	C/O DER HAGOPIAN-HAJJAR	185 STATE ST #1	BOSTON	MA	02109
303746000	116 112 STATE ST	BOSTON 02109	STATE ENTERPRISES LIMITED PA		1270 SOLDIERS FIELD RD	BRIGHTON	MA	02135
303807000	183 STATE ST 6	BOSTON 02109	MCKENZIE DENZIL D TS	C/O DENZIL D MCKENZIE TS	183 STATE ST #6	BOSTON	MA	02109
303756000	160 170 STATE ST	BOSTON 02109	NORTHLAND 160 STATE ST LLC	0/0.00000000000000000000000000000000000	2150 WASHINGTON ST	NEWTON	MA	02462
303806000	175 177 STATE ST 7	BOSTON 02109	MCKINLEY 7 LLC	C/O COLIN HAVILAND	1 MCKINLEY SQ	BOSTON	MA	02109
	175 177 STATE ST 1B	BOSTON 02109	HENRICKS KAREN	C/O MEHMET KAHVECI DMD	177B STATE ST	BOSTON	MA	02109
	171 173 MILK ST	BOSTON 02109	ONE-71-173 MILK STREET L P MASS LP	C/O 171-173 MILK ST LP	83 CENTRAL ST	BOSTON	MA	02109
303842000	102 114 WATER ST	BOSTON 02109	112 LLC	C/O MATTHEW PICCIONE	2 DRAPER ST #4	WOBURN	MA	01801
	21 R BROAD ST	BOSTON 02109	WOODBURY CONSTRUCTION CO INC		4 CALIFORNIA AV SUITE #103	FRAMINGHAM	MA	01701
	181 183 STATE ST	BOSTON 02109	ONE 83 STATE ST CONDO TR		181 183 STATE ST	BOSTON	MA	02109
303807000	183 STATE ST 2R	BOSTON 02109	FIELD MICHAEL S	C/O MICHAEL FIELD	74 LONGWOOD RD	CHESTNUT HILL	MA	02467
	183 STATE ST 4B	BOSTON 02109	OHEARN PROPERTIES LLC	C/O GP MESSER & CO PC	183 STATE ST 4TH FL	BOSTON	MA	02109
	175 177 STATE ST 4	BOSTON 02109	ONE MCKINLEY LLC MASS LLC	C/O DAVID E LURIE LURIE & KRUPP	1 MCKINLEY SQ	BOSTON	MA	02109
	111 113 STATE ST	BOSTON 02109	CONNIFF JAMES D		111 STATE ST	BOSTON	MA	02109
	183 STATE ST 2F	BOSTON 02109	FIELD MICHAEL S TS	C/O MICHAEL FIELD	74 LONGWOOD RD	CHESTNUT HILL	MA	02467
303745000	122 126 STATE ST	BOSTON 02109	ONE 26 STATE ST ASSOC LLC MASS LLC		148 STATE ST 10TH FL	BOSTON	MA	02109
	183 STATE ST 5	BOSTON 02109	LYBARSKY IGOR TS	C/O IGOR LYBARSKY	183 STATE ST #5	BOSTON	MA	02109
	175 177 STATE ST 6	BOSTON 02109	MSADA REALTY LLC MASS LLC	C/O JEAN FABRIZIO	ONE MCKINLEY SQ	BOSTON	MA	02109
303751000	148 STATE ST	BOSTON 02109	HS 148SST LLC	C/O HARBOR TRRADING USA INC	21300 VICTORY BLVD #520	WOODLAND HILLS	CA	91367
303822110	3 MCKINLEY SQ 603	BOSTON 02109	MARRIOTT OWNERSHIP RESORTS INC		3 MCKINLEY SQ, #603	BOSTON	MA	02109
303831000	115 117 WATER ST	BOSTON 02109	KAPLANIDIS JOHN	C/O MICHAEL KAPLANIDIS	226 AUSTRALIAN AVE #2	PALM BEACH	FL	33480
304029000	54 66 BATTERYMARCH ST	BOSTON 02110	DIAMOND ROCK BOSTON BROAD ST	C/O BRIONY QUINN	2 BETHESDA METRO CTR #1400	BETHESDA	MD	20814
303808000	185 191 STATE ST	BOSTON 02109	WATERFRONT REALTY TRUST		185 STATE ST (MARK A HAGOPIAN)	BOSTON	MA	02109
303990010	80 BROAD ST 803	BOSTON 02110	STEFFANO RESIDENTIAL FUND I LLC	C/O JOSEPH E STEFFANO MGR	677 SARATOGA ST	BOSTON	MA	02128
303990010	80 BROAD ST 809	BOSTON 02110	HARE REALTY LLC		54 SWAN RD	WINCHESTER	MA	01890
303990010	80 BROAD ST 908	BOSTON 02110	TSAI TUNGLIN		80 BROAD ST #908	BOSTON	MA	02110
303990010	80 BROAD ST 709	BOSTON 02110	CVETKOVA ZHENYA		80 BROAD ST #709	BOSTON	MA	02110
303990010	80 BROAD ST 806	BOSTON 02110	GAMBINO JOHN		80 BROAD ST #806	BOSTON	MA	02110
303990010	80 BROAD ST 805	BOSTON 02110	MUTAWA AHMED AL		80 BROAD ST #805	BOSTON	MA	02110
303990010	80 BROAD ST 902	BOSTON 02110	KESHIAN GREGORY		80 BROAD ST #902	BOSTON	MA	02110
303990010	80 BROAD ST 708	BOSTON 02110	HOLCOMB TRUST		7471 E QUIEN SABE WAY	SCOTTSDALE	ΑZ	85331
303990010	80 BROAD ST 802	BOSTON 02110	KWAN CATHERINE L		28 BOBOLINK RD	WELLESLEY	MA	02481
303990010	80 BROAD ST 808	BOSTON 02110	GORMLEY PAUL	C/O KIMI IGUCHI	80 BROAD ST #808	BOSTON	MA	02110
303990010	80 BROAD ST 905	BOSTON 02110	MUKERJEE SANJEEV	C/O SANFEEV MUKERJEE	393 FRANKLIN ST	MANSFIELD	MA	02048
303990010	80 BROAD ST 904	BOSTON 02110	ESTELLA IGNACIO		80 BROAD ST, UNIT 904	BOSTON	MA	02110
303990010	80 BROAD ST 807	BOSTON 02110	COLLINS WILLIAM		80 BROAD ST #807	BOSTON	MA	02110
303990010	80 BROAD ST 804	BOSTON 02110	HUANG KUO FEN		80 BROAD ST #804	BOSTON	MA	02110
303990010	80 BROAD ST 901	BOSTON 02110	SMITH SUSAN M	C/O SUSAN SMITH	8A HERON CIRCLE	GLOUCESTER	MA	01930
303990010	80 BROAD ST 907	BOSTON 02110	ROMANIUK STEFAN J	C/O STEFAN & CHRISTINE ROMANIUK	80 BROAD ST # 907	BOSTON	MA	02110
303990010	80 BROAD ST 801	BOSTON 02110	CHOW CLARA		80 BROAD ST UNIT 801	BOSTON	MA	02110
303990010	80 BROAD ST 906	BOSTON 02110	SCHIAVO MICHAEL S		80 BROAD ST #906	BOSTON	MA	02110

20200010	80 BROAD ST 903	BOSTON	02110	LOGBERG RESOURCES LLC	Ī	826 SOUTHERN SHORE DR	PEACHTREE CITY	GA	30269
	80 BROAD ST 909	BOSTON		FAHEY STEPHEN MARK		80 BROAD ST, UNIT 909	BOSTON	MA	02110
	80 BROAD ST 601	BOSTON		ANNETTE SMITH 2012 IRREVOCABLE TRUST		1063 HILLSBORO MILE, UNIT 706	HILLSBORO BEACH	FL	33062
	80 BROAD ST 703	BOSTON		HONG YEJI		80 BROAD ST, UNIT 703	BOSTON	MA	02110
	80 BROAD ST 604	BOSTON		MARCARELLI KAREN H	C/O EDMUND MARCARELLI	80 BROAD ST, 0NIT 703	BOSTON	MA	02110
	80 BROAD ST 507	BOSTON		BELLAVANCE DENNIS	C/O EDIVIOND WARCARELLI	80 BROAD ST, UNIT 507	BOSTON	MA	02110
	80 BROAD ST 706	BOSTON		OGREN ELIZABETH		80 BROAD ST, UNIT 507	BOSTON	MA	02110
		BOSTON							02110
	80 BROAD ST 603 80 BROAD ST 506	BOSTON		MARTIN PATRICK J LANGATHIANOS GREGORY T		80 BROAD ST #603 80 BROAD ST # 506	BOSTON BOSTON	MA	02110
				COTTER COLLEEN				MA	02110
	80 BROAD ST 606	BOSTON				80 BROAD ST #606	BOSTON	MA	
	80 BROAD ST 509	BOSTON		SWARUP AMITABH	0/0.4400451 + 0.44050 ##	196 CEDAR ST	WELLESLEY		02481
	80 BROAD ST 609	BOSTON		RAUSEO MICHAEL J	C/O MICHAEL J RAUSEO III	32 EMBANKMENT ROAD	BOSTON	MA	02114
	80 BROAD ST 608	BOSTON		DAVOS NICHOLAS V	0/0.050410.1405110	80 BROAD ST #608	BOSTON	MA	02110
	80 BROAD ST 705	BOSTON		PENSCO TRUST COMPANY	C/O GERALD J KOEHR	10 DEER RUN DRIVE	WESTFORD	MA	01886
	80 BROAD ST 602	BOSTON		QUINN BARBARA	C/O BARBARA QUIN	80 BROAD ST #602	BOSTON	MA	02110
	80 BROAD ST 605	BOSTON		HE ALLEN LIXING		80 BROAD ST #605	BOSTON	MA	02110
	80 BROAD ST 702	BOSTON		JANSCOTT REALTY LLC MASS LLC		45 AUBURN ST	NEWTON	MA	02465
	80 BROAD ST 508	BOSTON		VISCAROLA PETER G		80 BROAD ST #508	BOSTON	MA	02110
	80 BROAD ST 701	BOSTON							
	80 BROAD ST 707	BOSTON		SOLOMON HOWARD I TS		80 BROAD ST #707	BOSTON	MA	02110
	80 BROAD ST 607	BOSTON		DINAPOLI ARIAN		80 BROAD ST #607	BOSTON	MA	02110
	80 BROAD ST 704	BOSTON		RUDOLF LEE		80 BROAD ST #704	BOSTON	MA	02110
	80 BROAD ST 208	BOSTON		GLOD DAVID		80 BROAD ST UNIT 208	BOSTON	MA	02110
	80 BROAD ST PS 110	BOSTON		MANHATTAN II TRUST		80 BROAD STREET #507	BOSTON	MA	02110
	80 BROAD ST PS 104	BOSTON		BRG 55 INDIA LLC	,	221 MASSACHUSETTS AVENUE SUITE 402		MA	02115
	65 BROAD ST 5	BOSTON		RUSCH ALAN E	C/O ALAN RUSCH	12 BRINDA LANE	NANTUCKET	MA	02554
	80 BROAD ST 305	BOSTON		HENDERER JAMES F		80 BROAD ST #305	BOSTON	MA	02110
	80 BROAD ST PS 35	BOSTON		NICHOLAS J CARLUCCI		80 BROAD ST #PH-1104	BOSTON	MA	02110
	73 BROAD ST 4	BOSTON		VAN ORDEN KATHERINE R	C/O KATHERINE R VAN ORDEN	73 BROAD ST #4	BOSTON	MA	02109
	80 BROAD ST PS 38	BOSTON		TREC LLC MASS LLC	C/O BRYAN T RICH	PO BOX 439	SHREWSBURY	MA	01545
303811000	199 STATE ST 702	BOSTON		SUN HONGYONG		199 STATE ST UNIT 702	BOSTON	MA	02109
	80 BROAD ST 504	BOSTON		PAONE ROBERT P		80 BROAD ST #504	BOSTON	MA	02110
303990010	80 BROAD ST PH-1404	BOSTON	02110	MARGARET M HOSKINS REVOCABLE TRUST	C/O MARGARET M HOSKINS	80 BROAD ST #PH-1404	BOSTON	MA	02110
303990010	80 BROAD ST PS 50	BOSTON	02110	MARCARELLI KAREN		80 BROAD ST #604	BOSTON	MA	02110
303990010	80 BROAD ST C-102	BOSTON	02110	RAUSEO MICHAEL J TS	C/O MICHAEL J RAUSEO TS	80 BROAD ST #C-102	BOSTON	MA	02110
303990010	80 BROAD ST 302	BOSTON	02110	MCNEIL THOMAS P		23 ALGONQUIN RD	MEDFIELD	MA	02052
303990010	80 BROAD ST PS 15	BOSTON	02110	JOHNSON THOMAS P JR BE		80 BROAD ST #904	BOSTON	MA	02110
303990010	80 BROAD ST PS 7	BOSTON	02110	STEIN ROBERT		80 BROAD ST UNIT 1202	BOSTON	MA	02110
303990010	80 BROAD ST 308	BOSTON	02110	AHMET OZALP FAMILY TRUST		7 COMANCHE PLACE	ANDOVER	MA	01810
303811000	199 STATE ST 601	BOSTON	02109	KELLEHER DEIRDRE	C/O CLAIR MANAGEMENT	PO BOX 35006	BOSTON	MA	02135
303990010	80 BROAD ST 501	BOSTON	02110	LAU CHRISTINA		80 BROAD ST, UNIT 501	BOSTON	MA	02110
303990010	80 BROAD ST PS 41	BOSTON	02110	KHAN MUHAMMAD FURRUKH IRFAN	C/O AMERICAN KNITWEAR LLC	1375 BROADWAY 11TH FL	NEW YORK	NY	10018
304021000	73 BROAD ST 1	BOSTON	02109	HERZOG JOSEPH G		73 BROAD ST #1	BOSTON	MA	02109
303990010	80 BROAD ST PS 47	BOSTON	02110	KWAN CATHERINE L TS	C/O CATHERINE L KWAN TS	28 BOBOLINK EOS	WELLESLEY	MA	02481
303990010	80 BROAD ST 402	BOSTON	02110	DAILY JAMES F III	C/O JAMES F DAILY III	80 BROAD ST #402	BOSTON	MA	02110
303990010	72 80 BROAD ST	BOSTON	02110	FOLIO BOSTON CONDO TRUST	C/O SUFFOLK CO INC	10 POST OFFICE SQ #600	BOSTON	MA	02109
303990010	80 BROAD ST PS 112	BOSTON	02110	KING MARY		4000 TOWERSIDE TERRACE #TS12	MIAMI FLORIDA		33138
303990010	80 BROAD ST PS 6	BOSTON	02110	LORUSSO ANTONIO J JR	C/O ANTONIO J LORUSSO JR	1260 OLD NORTH ST	WALPOLE	MA	02081
303990010	80 BROAD ST 307	BOSTON	02110	PAOLUCCI ANTHONY		80 BROAD ST #307	BOSTON	MA	02110
303990010	80 BROAD ST PS 12	BOSTON		RICH BRYAN T		P O BOX 439	SHREWSBURY	MA	01545
	71 BROAD ST A	BOSTON		KING JADE REALTY LLC MASS LLC		45 COURTLAND CI	MILTON	MA	02186
	80 BROAD ST PS 46	BOSTON		HOLCOMB ROBERT C		80 BROAD ST #708	BOSTON	MA	02110
	80 BROAD ST PS 75	BOSTON		HOANG CHAU		100 STATE ST UNIT 5	BOSTON	MA	02109
	80 BROAD ST 202	BOSTON		BARRETTO JOSEPH J		80 BROAD ST #202	BOSTON	MA	02110
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80890010 80 BROAD ST 407 BOSTON 2110 COUNTY JULIAN SO BROAD ST 1001 BOSTON MAI SO BROAD ST 1001 BOSTON MAI SO BROAD ST 101 BOSTON MAI MAI SO BROAD ST 101 BOSTON MAI M	303990010	80 BROAD ST PH-1502	BOSTON	02110	RAUSEO MICHAEL J III	C/O MICHAEL J RAUSEO III	32 EMBANKMENT RD	BOSTON	MA	02114
303990010 80 BROAD ST 9151 BOSTON 02110 DUNNE JOHN C TS C/O JOHN C DUNNE 363 LINCOLN ST DUXBUPY MA						C/O WICHALL'S RAOSEO III				02114
303990010 80 BROAD ST FS 115 005TON 02110 398 BLC CO KEVIN AHEARN 470 ATAMTIC AVE 4TH FL BOSTON MA 030990010 80 BROAD ST F401 005TON 02110 GRADE AVE AVE AVE AVE AVE AVE AVE AVE AVE AV						C/O IOHN C DUNNE				02332
303990010 80 BROAD ST PF ST 2						C/O JOHN C DONNE				02110
303990010 80 BRADAD ST 401 80STON 02110 60STON MA 00STON 02110 60STON MA 00STON 02100 60FRC 80 BROAD ST 4094 80STON MA 00STON 02100 60FRC 80 BROAD ST 4094 80STON MA 00STON 02100 60FRC 80 BROAD ST 4094 80STON MA 00STON 02100 60FRC 80 BROAD ST 4094 80STON MA 00STON 02100 60FRC 80 BROAD ST 4094 80STON MA 00STON 02100 60FRC 80 BROAD ST 4094 80STON 02100 60FRC 80 BROAD ST 4094 80STON MA 00STON 02110 60FRC 80BROAD ST 4094 80STON MA 00STON 02110 80STON MA 00STON 02110 80STON 02110 80STON MA 00STON 02110 80STON 02110 80STON MA 00STON 02110 80STON 02110 02110 02110 02110 02110 02110 02110 02110 02110 02110						C/O KEVIN AHEARN				02210
303890010 30 880AD 57 304 805TON 02110 030RODN ERIC						C/O REVIN ATTEARN				02110
193811000 199 STATE ST 701 190 STON 2029 CHEN IUL-ER 33 GREEN HILL RD ROOKLINE MA 03 190 900010 80 BROAD ST F8 3 80 STON 2010 CAUPER STONE COPER MINIAM F 190 STONE										02110
\$\begin{align*} \begin{align*} \be										02445
1039990110 80 BROAD ST PS 49 BOSTON 02110 COOPER MIRIAM F COOPER MIRIAM										02109
103990010 00 BROAD ST PS 3 005TON 02110 GRAZZARO JANAN K C/O MAGNAN GRAIZZARO & ASSOCIATE\$ 0.92 BROAD ST B05TON MA 030990010 00 BROAD ST PS 118 B05TON 02110 MANNING LEE 9 BURROUGHS RD LEXINGTON MA 030990010 00 BROAD ST PS 118 B05TON 02110 MANNING LEE 9 BURROUGHS RD LEXINGTON MA 030990010 00 BROAD ST PS 118 B05TON 02110 MANNING LEE 9 BURROUGHS RD LEXINGTON MA 030990010 00 BROAD ST PS 101 B05TON MA 030990010 00 BROAD ST 204 B05TON 02110 MARCY D MONBOULQUETTE REVOCABLE TRUST 80 BROAD ST #8011 B05TON MA 030990010 00 BROAD ST 204 B05TON 02110 MARCY D MONBOULQUETTE REVOCABLE TRUST 80 BROAD ST #8011 B05TON MA 030990010 00 BROAD ST 204 B05TON 02110 SANTGRO SALVADOR 02100 SANTGRO SALVAD										02109
103990010 80 BROAD ST 404 BOSTON 02110 MANNING LEE 9 BURROUGHS RD LEXINGTON MA 0303990010 80 BROAD ST PS 118 BOSTON 02110 MANNING LEE 9 BURROUGHS RD LEXINGTON MA 0303990010 80 BROAD ST PS 14 BOSTON 02110 MANNING LEE 9 BURROUGHS RD LEXINGTON MA 0303990010 80 BROAD ST 95 14 BOSTON 02110 BRESNAHAN RICHARD M 80 BROAD ST #308 BOSTON MA 0303990010 80 BROAD ST 204 BOSTON 02110 BRESNAHAN RICHARD M 80 BROAD ST #301 BOSTON MA 0303990010 80 BROAD ST PS 114 BOSTON 02110 SANTOR SALVADOR 80 BROAD ST PS 114 BOSTON 02110 SANTOR SALVADOR 80 BROAD ST PS 114 BOSTON 02110 SANTOR SALVADOR 80 BROAD ST PS 114 BOSTON 02110 SANTOR SALVADOR 80 BROAD ST PS 114 80 BROAD ST PS 115 80 BROAD ST PS 115 80 BROAD ST PS 115 80 BR						C/O MAGNAN GRAIZZARO & ASSOCIATES				02110
303990010 80 BROAD ST PS 118 BOSTON 02110 MANNING LEE 80 BROAD ST PS 14 BOSTON 02110 MATTS MARY ANN 80 BROAD ST 8038 BOSTON MA 03 03990010 80 BROAD ST 3031 BOSTON 02110 RESNAHAN RICHARD M 80 BROAD ST 8031 BOSTON MA 03 03990010 80 BROAD ST 204 BOSTON 02110 NARCY D MONBOUQUETTE REVOCABLE TRUST 80 BROAD ST 8031 BOSTON MA 03 03990010 80 BROAD ST 104 BOSTON 02110 NARCY D MONBOUQUETTE REVOCABLE TRUST 800 BROAD ST 10410 BOSTON MA 03 03990010 80 BROAD ST 7041 BOSTON 02110 SANTORO SALVADOR SOSTON MA 03 03990010 80 BROAD ST 7041 BOSTON 02110 SANTORO SALVADOR CONTROL SALVADOR SOSTON MA 03 03990010 80 BROAD ST 7051 BOSTON 0210 SANTORO SALVADOR CONTROL SALVADOR SOSTON MA 03 03990010 80 BROAD ST 7051 BOSTON 0210 SANTORO SALVADOR CONTROL SALVADOR SOSTON MA 03 03990010 80 BROAD ST 7051 BOSTON 0210 SANTORO SALVADOR CONTROL SALVADOR SOSTON MA 03 03990010 80 BROAD ST 7051 BOSTON 0210 SANTORO SALVADOR CONTROL SALVADOR C						C/O MAGNAN GRAIZZARO & ASSOCIATES				02109
103990010 00 BROAD ST P5 14 80STON 02110 WATTS MARY ANN 80 BROAD ST #308 80STON MA 0303990010 80 BROAD ST 3019 80STON 02110 BESNAHAN RICHARD N 80 BROAD ST #3011 80STON MA 0303990010 80 BROAD ST 95 114 80STON 02110 39 B LLC 80STON MA 0303990010 80 BROAD ST 95 114 80STON 02110 39 B LLC 80STON MA 0303990010 80 BROAD ST 95 114 80STON 02110 39 B LLC 80STON 02110 39 B LLC 80STON 02110 30STON MA 0303990010 80 BROAD ST 95 114 80STON 02110 30STON 02110 30ST										02420
303990010 80 BROAD ST 301 805TON 02110 RESNAHAN RICHARD M 80 BROAD ST 4301 805TON MA 0303990010 80 BROAD ST 795 114 805TON 02110 NANCY D MONBOUQUETTE REVOCABLE TRUST 80 BROAD ST, UNIT 204 805TON MA 0303990010 80 BROAD ST 795 114 805TON 02110 33 B LLC 800 FAMATO ROAD #1000 80 BROAD ST 795 114 805TON 02110 33 B LLC 800 FAMATO ROAD #1000 80 BROAD ST 795 114 805TON 02110 33 B LLC 800 FAMATO ROAD #1000 80 BROAD ST #309 805TON MA 0303990010 80 BROAD ST 85 502 805TON 0210 SANTORO SALVADOR 80 BROAD ST #309 805TON MA 0303990010 80 BROAD ST 85 77 805TON 02110 GUBER FOOD 80 BROAD ST #404 805TON MA 0303990010 80 BROAD ST 8403 805TON 02110 GUBER FOOD 80 BROAD ST #404 805TON MA 0303990010 80 BROAD ST 8409 805TON 02110 GUBER FOOD 80 BROAD ST #409 805TON MA 0303990010 80 BROAD ST 8409 805TON 02110 CURVEN B 80 BROAD ST 8409 805TON MA 0303990010 80 BROAD ST 8517 805TON 02110 CONNOR SEAN 80 BROAD ST 8502 805TON MA 0303990010 80 BROAD ST 8511 805TON 02110 CONNOR SEAN 80 BROAD ST 8517 805TON 02110 CONNOR SEAN 80 BROAD ST 8507 805TON MA 0303990010 80 BROAD ST 8511 805TON 02110 CONNOR SEAN 80 BROAD ST 8307 805TON MA 0303990010 80 BROAD ST 8511 805TON 02110 CONNOR SEAN 80 BROAD ST 8307 805TON MA 0303990010 80 BROAD ST 8511 805TON 02110 CONNOR SEAN 80 BROAD ST 8307 805TON MA 0303990010 80 BROAD ST 8511 805TON 02110 FOLIO CITY PARKING LLC C/O MARILYN T BENDIT 4475 N OCEAN BLVD #407 DELRAY BEACH FL 1303990010 80 BROAD ST 8507 805TON 02110 SOGRAN-ACOSTA ALIDA 80 BROAD ST 8307 805TON MA 0303990010 80 BROAD ST 8507 805TON 02110 SOGRAN-ACOSTA ALIDA 80 BROAD ST 8307 805TON MA 0303990010 80 BROAD ST 8507 805TON 02110 SOGRAN-ACOSTA ALIDA 80 BROAD ST 8507 805TON MA 0303990010 80 BROAD ST 8507 805TON 02110 SOGRAN-ACOSTA ALIDA 80 BROAD S			-							02110
\$63990010 \$80 BROAD ST 204 BOSTON \$02110 NANCY D MONBOUQUETTE REVOCABLE TRUST \$80 BROAD ST, UNIT 204 BOSTON \$80 BROAD ST 505 BOSTON \$90 BLC BOSTON \$80 BROAD ST 7509 BOSTON \$90 BLC BOSTON \$80 BROAD ST 7509 BOSTON										02110
103990010 80 BROAD ST PS 114 BOSTON 02110 30 B LLC 800 YAMATO ROAD #100 BOCA RATON F.F. 3 303990010 80 BROAD ST #309 BOSTON 0210 MADRIGAL ERNANDO DAN C/O FERNANDO D MADRIGAL I 195 STATE STREET #502 BOSTON MA 0 303990010 80 BROAD ST #309 BOSTON MA 0 303990010 80 BROAD ST #303 BOSTON 0210 GUBER TODD MADRIGAL ERNANDO DAN C/O MAX MAGRANER 80 BROAD ST #404 BOSTON MA 0 303990010 80 BROAD ST #403 BOSTON 02110 GUBER TODD MAGRANER MAX QUIVERA M C/O MAX MAGRANER 80 BROAD ST #403 BOSTON MA 0 303990010 80 BROAD ST #403 BOSTON 02110 MAGRANER MAX QUIVERA M C/O MAX MAGRANER 80 BROAD ST #409 BOSTON MA 0 303990010 80 BROAD ST #409 BOSTON 02110 LYNCH OWEN B 80 BROAD ST #409 BOSTON MA 0 303990010 80 BROAD ST #5117 BOSTON 02110 COONNOR SEAN 80 BROAD ST #502 BOSTON MA 0 303990010 80 BROAD ST #5117 BOSTON 02110 OCONNOR SEAN 80 BROAD ST #507 BOSTON MA 0 303990010 80 BROAD ST #5111 BOSTON 02110 OCONNOR SEAN 80 BROAD ST #307 BOSTON MA 0 303990010 80 BROAD ST #5111 BOSTON 02110 OCONNOR SEAN 80 BROAD ST #307 BOSTON MA 0 303990010 80 BROAD ST #5111 BOSTON 02110 OCONNOR SEAN 80 BROAD ST #307 BOSTON MA 0 303990010 80 BROAD ST #531 BOSTON 02110 OCONNOR SEAN 80 BROAD ST #307 BOSTON MA 0 303990010 80 BROAD ST #531 BOSTON 02110 WILCON GORDON 80 BROAD ST #307 BOSTON MA 0 303990010 80 BROAD ST #531 BOSTON 02110 WILCON GORDON 80 BROAD ST #503 BOSTON MA 0 303990010 80 BROAD ST #533 BOSTON 02110 WILCON GORDON 80 BROAD ST #503 BOSTON MA 0 303990010 80 BROAD ST #406 BOSTON 02110 SPRAGUE STEPHEN 0 80 BROAD ST #503 BOSTON MA 0 303990010 80 BROAD ST #406 BOSTON 02110 SIMMOLLARDES CHRIS PTS C/O BETTE & CHRIS SIMOLLARDES 49 CARRIAGE WAY SUDBURY MA 0 303990010 80 BROAD ST #503 BOSTON 02110 SIMMOLLARDES CHRIS PTS C/O BETTE & CHRIS SIMOLLARDES BOSTON MA 0						<u> </u>				02110
80 BROAD ST 309 BOSTON 02110 SANTORO SALVADOR BOSTON 02109 MADRIGAL FERNANDO DAN C/O FERNANDO D MADRIGAL 199 STATE STREET #502 BOSTON MA 0 303990010 80 BROAD ST 78 77 BOSTON 02110 GUBER TODD MADRIGAL 199 STATE STREET #502 BOSTON MA 0 303990010 80 BROAD ST 78 403 BOSTON 02110 MAGRANER MAX OLVERA M C/O MAX MAGRANER 80 BROAD ST #404 BOSTON MA 0 303990010 80 BROAD ST 409 BOSTON 02110 MAGRANER MAX OLVERA M C/O MAX MAGRANER 80 BROAD ST #409 BOSTON MA 0 303990010 80 BROAD ST 95 117 BOSTON 02110 CONNOR SEAN BOSTON MA 0 303990010 80 BROAD ST 95 111 BOSTON 02110 CONNOR SEAN BOSTON MA 0 303990010 80 BROAD ST 95 111 BOSTON 02110 CONNOR SEAN BOSTON MA 0 303990010 80 BROAD ST 95 111 BOSTON 02110 CONNOR SEAN BOSTON MA 0 303990010 80 BROAD ST 95 111 BOSTON 02110 BOGRAN-ACOSTA ALIDA BOSTON MA 0 303990010 80 BROAD ST 95 111 BOSTON 02110 BOGRAN-ACOSTA ALIDA BOSTON MA 0 303990010 80 BROAD ST 95 37 BOSTON 02110 BOGRAN-ACOSTA ALIDA BOSTON MA 0 303990010 80 BROAD ST 95 37 BOSTON 02110 BOGRAN-ACOSTA ALIDA BOSTON MA 0 303990010 80 BROAD ST 95 37 BOSTON 02110 SPRAGUE STEPHEN BOSTON MA 0 303990010 80 BROAD ST 95 37 BOSTON 02110 SPRAGUE STEPHEN BOSTON MA 0 303990010 80 BROAD ST 95 31 BOSTON 02110 SPRAGUE STEPHEN BOSTON MA 0 303990010 80 BROAD ST 95 51 BOSTON 02110 SPRAGUE STEPHEN BOSTON MA 0 303990010 80 BROAD ST 95 51 BOSTON 02110 SIMDLLARDES CHRIS PTS C/O BETTE & CHRIS SIMOLLARDES 49 CARRIAGE WAY SUBBURY MA 0 303990010 80 BROAD ST 95 51 BOSTON 02110 SIMDLLARDES CHRIS PTS C/O BETTE & CHRIS SIMOLLARDES 49 CARRIAGE WAY SUBBURY MA 0 303990010 80 BROAD ST 95 53 BOSTON 02110 GIBSON ERICA C/O ANNA M COLANGELIO 42 LECHINISTER RD LUINENBURG MA 0 303990010 80 BROAD ST 95 53 BOSTON 02110 GIBSON ERICA C/O C					-	I	,			33431
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303990101 80 BROAD ST PS 77 80STON 02110 021						C/O FERNANDO DIMADRICAL				02110
303990101 80 BROAD ST 403 BOSTON 02110 MAGRANER MAX OLIVERA M C/O MAX MAGRANER 80 BROAD ST #403 BOSTON MA 0 0 0 0 0 0 0 0 0						C/O FERNANDO D MADRIGAL				02109
303990101 80 BROAD ST 409 BOSTON 02110 LYNCH OWEN B 80 BROAD ST #409 BOSTON MA 0 303990101 80 BROAD ST #511 BOSTON 02110 KOPPEL ROBERT M 80 BROAD ST #502 BOSTON MA 0 30399010 80 BROAD ST PS 111 BOSTON 02110 CONNOR SEAN 80 BROAD ST #307 BOSTON MA 0 30399010 80 BROAD ST #511 BOSTON 02110 CONNOR SEAN 80 BROAD ST #307 BOSTON MA 0 30399010 80 BROAD ST #511 BOSTON 02110 FOLIO CITY PARKING LLC C/O MARILYN T BENOIT 4475 N OCEAN BLVD #407 DELRAY BEACH FL 30399010 80 BROAD ST #207 BOSTON 02110 BOGRAN-ACOSTA ALIDA BOSTON 02110 BOSTON 02110 BOGRAN-ACOSTA ALIDA BOSTON 02110 BOSTON 02110 BOSTON 02110 BOGRAN-ACOSTA ALIDA BOSTON 02110						C/O MANY MAN CRANIER				
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303990010 80 BROAD ST 505 BOSTON 02110 AZAR VICTORIA 80 BROAD ST #505 BOSTON MA 0										02748
					-		•			02110
										02110
		71 73 BROAD ST			SEVENTY 1-73 BROAD ST CONDO		71-73 BROAD ST	BOSTON	MA	02109
			-							02467
										02110
					WILLIAM D BAILEY 2011 TRUST	C/O WILLIAM BAILEY	27 HOLLINGSWORTH RD			02655
	303990010	80 BROAD ST 203					80 BROAD ST UNIT #203		MA	02110
										01741
										03087
303990010 80 BROAD ST PS 67 BOSTON 02110 HERZOG JOSEPH 73 BROAD ST #1 BOSTON MA 0	303990010	80 BROAD ST PS 67	BOSTON	02110	HERZOG JOSEPH		73 BROAD ST #1	BOSTON	MA	02109
303990010 80 BROAD ST PS 64 BOSTON 02110 DOHERTY JOHN 172 HIGHLAND ST SOUTH HAMILTON MA 0	303990010	80 BROAD ST PS 64	BOSTON	02110	DOHERTY JOHN		172 HIGHLAND ST	SOUTH HAMILTON	MA	01982
303990010 80 BROAD ST PS 63 BOSTON 02110 GOSS ELIZABETH 177 MILK ST #605 BOSTON MA 0	303990010	80 BROAD ST PS 63	BOSTON	02110	GOSS ELIZABETH		177 MILK ST #605	BOSTON	MA	02109
303990010 80 BROAD ST PS 69 BOSTON 02110 JLB REALTY TRUST C/O JEAN-LUC G BOUINOIS 85 E INDIA RO #20F BOSTON MA 0	303990010	80 BROAD ST PS 69	BOSTON	02110	JLB REALTY TRUST	C/O JEAN-LUC G BOUINOIS	85 E INDIA RO #20F	BOSTON	MA	02110

303990010	80 BROAD ST PS 66	BOSTON	02110	JANICE A ZAJCHOWSKI REVOCABLE TRUST		-105 99 BROAD ST, UNIT 7-E	BOSTON	МА	02110
		BOSTON		COVE 2011 REALTY TRUST	C/O LISA P EVANS	10 WELD ST	ROSLINDALE	MA	02131
		BOSTON		STEFFANO RESIDENTIAL FUND II LLC	C/O JOSEPH E STEFFANO MGR	677 SARATOGA ST	EAST BOSTON	MA	02128
		BOSTON		MILOVANOVA EKATERINA	C/O MARK WATSON & ASSOCIATES	51 NORTH STREET	HINGHAM	MA	02043
		BOSTON		BOSTON FAMILY TRUST		80 BROAD ST, UNIT 10074	BOSTON	MA	02110
		BOSTON		INSOLIA SANTO ALESSANDRO		80 BROAD ST #PH 1101	BOSTON	МА	02110
		BOSTON		SELBST LLOYD		65 EAST INDIA ROW, UNIT 29G	BOSTON	МА	02110
		BOSTON		BHAWAN JAG BE	C/O JAG BHAWAN	1 FRANKLIN ST #4803	BOSTON	МА	02110
		BOSTON		SMITH MICHAEL S	, , , , ,	1063 HILLSBORO MILE #706	HILLSBORO BEACH	FL	33062
		BOSTON		YAGHOUBI NADER		80 BROAD ST #1008	BOSTON	MA	02110
		BOSTON		TUCKETT ROBERT		-105 99 BROAD ST, UNIT 9-B	BOSTON	MA	02110
		BOSTON		IUANOW ELAINE	C/O NICHOLAS J CARLUCCI	80 BROAD ST #804	BOSTON	МА	02110
		BOSTON		STEFFANO RESIDENTIAL FUND I LLC	C/O JOSEPH E STEFFANO	677 SARATOGA ST	EAST BOSTON	MA	02128
		BOSTON		DYER JOHN CHOUTEAU TRST	C/O VIRGINIA G DYER	32 COOLIDGE HILL RD	CAMBRIDGE	MA	02128
		BOSTON		PACKET BOSTON LLC	, , , , , , , , , , , , , , , , , , , ,	TWO PARK PLAZA	BOSTON	MA	02116
		BOSTON		SACCO ARTHUR	C/O ARTHUR & LINDA SACCO	80 BROAD ST PS-19	BOSTON	MA	02110
		BOSTON		EIGHTY BROAD ST LLC	, , , , , , , , , , , , , , , , , , , ,	80 BROAD ST #PH-1102	BOSTON	MA	02110
		BOSTON		BANAJI JAMSHEED P		68 HILLTOP DR	SOUTHPORT	CT	06890
		BOSTON		BRG 55 INDIA LLC	C/O BOSTON RESIDENTIAL GROUP LLC	221 MASSACHUSETTS AVE., SUITE 402	BOSTON	MA	02116
		BOSTON		BEAL BRUCE A		177 MILK	BOSTON	MA	02110
		BOSTON		SV RESERVE LLC		PO BOX 2173	KETCHUM	ID	83340
		BOSTON		GLYNN CAPITAL LLC A MASS LLC		83 CENTRAL ST	BOSTON	МА	02109
		BOSTON		TREC LLC		PO BOX 439	SHREWSBURY	MA	01545
303811000		BOSTON		GREENWAY PLACE CONDO TR	C/O KAREN J GUNTHER	200 WHEELER RD SOUTH TOWER	BURLINGTON	МА	01803
303916010		BOSTON	02109	MASSACHUSETTS TURNPIKE AUTHORITY	C/O COMMONWEALTH OF MASS	10 PARK PLZ	BOSTON	МА	02116
303811000		BOSTON		JUDITH RUBMAN EHRLICH REVOCABLE TRUST		199 STATE STREET #201	BOSTON	МА	02109
303990010	80 BROAD ST 1004	BOSTON	02110	KHAN MUHAMMED FARRUKH IRFAN		80 BROAD ST #1004	BOSTON	МА	02110
304018000	65 BROAD ST 2	BOSTON	02109	ARNDT DANIEL LEIGH		65 BROAD ST #2	BOSTON	МА	02109
304015000	32 34 BATTERYMARCH ST	BOSTON	02110	FOREST MILK LLC	C/O THE HOFFMAN COMPANIES	60 TEMPLE PLACE 2ND FLR	BOSTON	МА	02111
304019000	67 69 BROAD ST	BOSTON	02109	WESTWOOD CAPITAL LLC MASS LLC		PO BOX 350	WESTWOOD	MA	02090
304013000	42 48 BATTERYMARCH ST	BOSTON	02110	BAYLE SHIRLEY D		75 STATE ST 16TH FLR HEMENWAY	BOSTON	MA	02109
303990010	80 BROAD ST 1009	BOSTON	02110	CERULLO JOSELITA		80 BROAD ST #1009	BOSTON	MA	02110
303811000	199 STATE ST 101	BOSTON	02109	GREENWAY REALTY TRUST		PO BOX 345	SOMMERVILLE	MA	02143
304018000	63 BROAD ST 1	BOSTON	02109	REPPUCCI ROBERT M	C/O ROBERT M. REPPUCCI TS	25 MILANO DR	SAUGUS	MA	01906
303990010	80 BROAD ST 1001	BOSTON	02110	SACCO JOSEPHINE		80 BROAD ST #1001	BOSTON	MA	02110
303810000	193 195 STATE ST	BOSTON	02109	WATERFRONT REALTYTRUST	C/O MARK DER HAGOPIAN	185-189 STATE STREET	BOSTON	MA	02109
303990010	80 BROAD ST PH-1201	BOSTON	02110	SWOBODA THOMAS M		80 BROAD ST #PH-1201	BOSTON	MA	02110
303811000	199 STATE ST 302	BOSTON	02109	SILVA ALBERICH		199 STATE ST #302	BOSTON	MA	02109
303921000	160 166 MILK ST	BOSTON	02109	160-166 MILK STREET LP		83 CENTRAL ST	BOSTON	MA	02109
304018000	65 BROAD ST 3	BOSTON	02109	BARRY MICHAEL II	C/O MICHAEL BARRY II	65 BROAD ST #3	BOSTON	MA	02109
303990010	80 BROAD ST 1003	BOSTON	02110	YAFYASOVA NAILYA		80 BROAD ST #1003	BOSTON	MA	02110
303811000	199 STATE ST 301	BOSTON	02109	AUGUSTINE CHARLES W		199 STATE ST #301	BOSTON	MA	02109
304018000	63 65 BROAD ST	BOSTON	02109	LOFTS @ BROAD ST CONDO TR	C/O LOFTS @ BROAD STREET LLC	63 BROAD ST	BOSTON	MA	02109
303811000	199 STATE ST RETAIL	BOSTON	02109	MUSTANG CAPITAL PARTNERS LLC	C/O MUSTANG CAPITAL PARTNERS	PO BOX 1405	ANDOVER	MA	01810
303990010	80 BROAD ST 1006	BOSTON	02110	TWO STAR TRUST	C/O JAMES STELLA	40 LAVENDER CIRCLE	NORTH ANDOVER	МА	01845





AFFIDAVIT OF SERVICE FOR ABUTTER NOTIFICATION

Under the Massachusetts Wetlands Protection Act and Boston Wetlands Ordinance

one week prior to the puparagraph of Massachuse	, hereby certify under pains and penalties of perjury that that at least blic hearing, I gave notice to abutters in compliance with the second etts General Laws Chapter 131, section 40, and the DEP Guide to Abutter 8, 1994, in connection with the following matter:
	was filed under the Massachusetts Wetlands Protection Act on Wetlands Ordinance by for
	·
The Abutter Notification attached to this Affidavit	For, the list of abutters to whom it was given, and their addresses are of Service.
mus C	0
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.cdboston.gov

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:

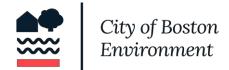
IMPORTANT! Ce document ou cette demande contient des <u>informations importantes</u> concernant vos droits, responsabilités et/ou avantages. Il est essentiel que vous compreniez les informations contenues dans ce document et/ou cette demande, que nous pouvons vous communiquer gratuitement dans la langue 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.
A has filed a 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/or the Boston Wetlands Ordinance.
B. The address of the lot where the activity is proposed is
C. The project involves
D. Copies of the application may be obtained by contacting the Boston Conservation Commission at CC@boston.gov .
E. Copies of the application may be obtained from by contacting them at between the hours of,
F. In accordance with the Chapter 107 of the Acts of 2022, 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.
NOTE: If you plan to attend the public hearing and are in need of interpretation, please notify staff at CC@boston.gov by 12 PM the day before the hearing.



COUNTY OF SUFFOLK COMMONWEALTH OF MASSACHUSETTS

October 20, 2022

This is to certify that the attached translation is, to the best of my knowledge and belief, a true and accurate translation from English into Traditional Chinese of the attached document:

Chinese (Traditional) Abutter Notification Form_2022 (Filled - English).docx

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





波士頓保護委員會致周邊居民的通知

根據《麻塞諸塞州濕地保護法》、《麻塞諸塞州普通法》第131章第40節和《波士頓濕地條例》之規定,特此通知您下述事項,因為您是已向波士頓保護委員會提交申請的一個專案的周邊居民。

- A. 波士顿燃气公司(由Jaime Walker转交)已向波士顿湿地保护委员会提出确定适用性的申请,请求批准改建一块受《濕地保護法》(普通法第131章第40節)和《波士頓濕地條例》保護的區域。
- B. 擬開展改建活動的地塊地址為:麻塞諸塞州波士頓印度街9-35號。
- C. 該專案涉及铺设道路内的燃气管道更换活动。
- D. 可通過此電郵信箱與波士頓保護委員會聯絡,索取意向通知書的副本: CC@boston.gov。
- E. 您可於週一至週五上午8時到下午5時之間致電 (413) 572-3224, 聯絡Tighe & Bond公司的Melissa Coady, 索取意向通知書的副本。
- F. 根據2022年法案第107章的規定,公開聽證會將以**虛擬方式**舉行,網址為: $\frac{\text{https://zoom.us/j/6864582044}}{\text{如果您無法上網,您可以撥打1-929-205-6099,輸入會議ID 686 458 2044#,並使用#作為您的參會者ID。$
- G. 如需有關公開聽證會的日期和時間之資訊,可於**週一至週五上午9時至下午5時之間**,傳送電郵至 CC@boston.gov或致電 (617) 635-3850向波士頓保護委員會索取。

註:公開聽證會的通知,包括其日期、時間和地點,將至少提前五(5)天在《波士頓先驅報》上公佈。

註:公開聽證會的通知,包括其日期、時間和地點,將至少提前四十八(48)小時在www.boston.gov/publicnotices發佈並在波士頓市政廳張貼。

註:若您希望提供意見,您可以參加公聽會或將書面意見傳送至<u>CC@boston.gov</u>或郵寄至波士頓市政廳環境部(Boston City Hall, Environment Department, Room 709, 1 City Hall Square, Boston, MA 02201)。

註:您也可以聯絡波士頓保護委員會或環境保護部(DEP)東北地區辦事處,瞭解有關該申請或《濕地保護法》的更多資訊。如要聯絡DEP,請致電(東北地區):(978)694-3200。

註:如果您計畫參加公聽會並需要口譯服務,請在公聽會前一天中午12時前通知工作人員(電郵信箱: CC@boston.gov)。

ATTACHMENT E

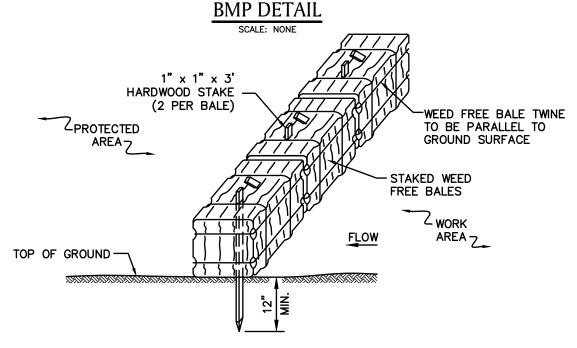
NATIONAL GRID BEST MANAGEMENT PRACTICES

ENVIRONMENTAL GUIDANCE

Doc. No.	EG-303NE
Page: 7-1	Rev. No. 4
Date	02/20/18

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

 Doc. No.
 EG-303NE

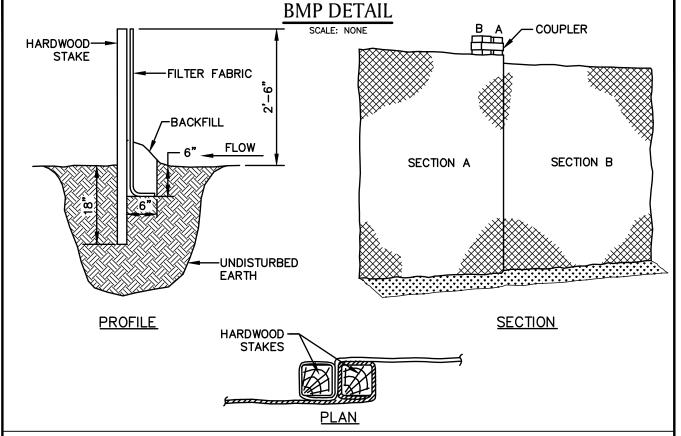
 Page: 7-2
 Rev. No. 4

 Date
 02/20/18

SUBJECT

Access, Maintenance and Construction Best Management Practices Reference

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



BMP PICTURE



APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES
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VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

SEC-2
SEDIMENT CONTROL FENCE

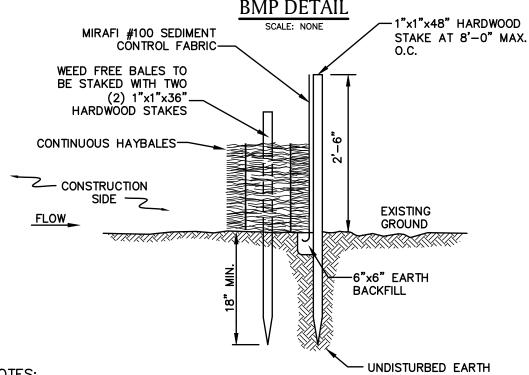
nationalgrid **ENVIRONMENTAL GUIDANCE**

Doc. No.	EG-303NE
Page: 7-3	Rev. No. 4
Date	02/20/18

Reference

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

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



NOTES:

- 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.

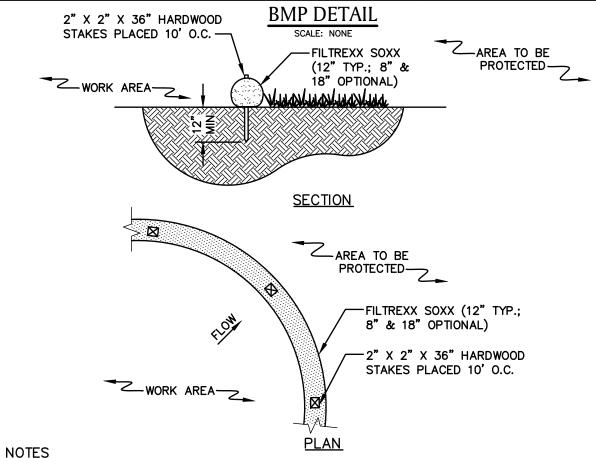
BMP PICTURE



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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.

BMP PICTURE



* PICTURE AND DETAIL PROVIDED BY FILTREXX LAND IMPROVEMENT SYSTEMS

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SEC-4 SILT SOXX *

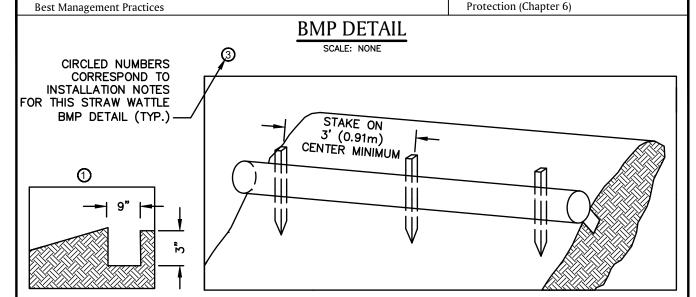
ENVIRONMENTAL GUIDANCE

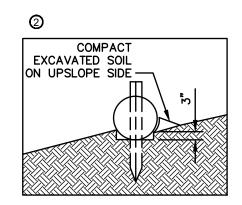
Doc. No.	EG-303NE
Page: 7-5	Rev. No. 4
Date	02/20/18

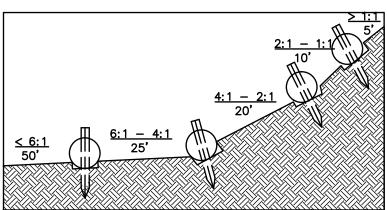
SUBJECT

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

Reference EP No. 3 - Natural Resource







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

APPROVED BY: VICE PRESIDENT, EMVIRONMENTAL SERVICES
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VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

SEC-5 STRAW WATTLE * (1 OF 2)

ENVIRONMENTAL GUIDANCE

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SUBJECT

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

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

BMP PICTURE



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

ALTERNATE STAKING INSTALLATION NOTES:

- ON SHALLOW SLOPES (\leq 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.
 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, EM/RONMENTAL SERVICES
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SEC-5 STRAW WATTLE * (2 OF 2)

ENVIRONMENTAL GUIDANCE

 Doc. No.
 EG-303NE

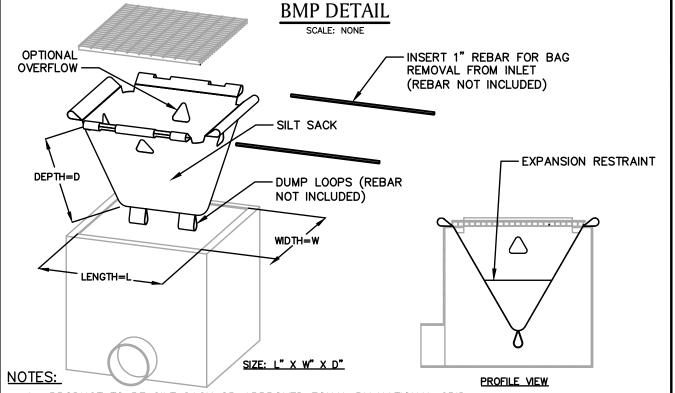
 Page: 7-48
 Rev. No. 4

 Date
 02/20/18

Reference

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

SUBJECT
Access, Maintenance and Construction
Best Management Practices



- 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 *

ENVIRONMENTAL GUIDANCE

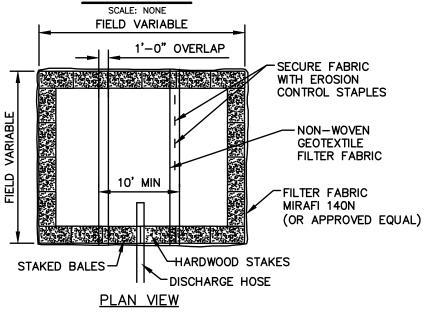
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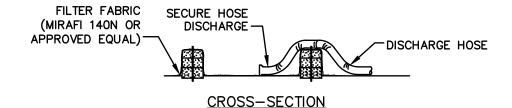
SUBJECT

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

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

BMP DETAIL





NOTES:

- NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS, THE BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.
- KEEP AS FAR FROM WETLANDS AS PRACTICAL.
- CLEAN AND REMOVE AS SOON AS DEWATERING IS COMPLETE.



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AA-10 **DEWATERING BASIN** (SMALL SCALE)

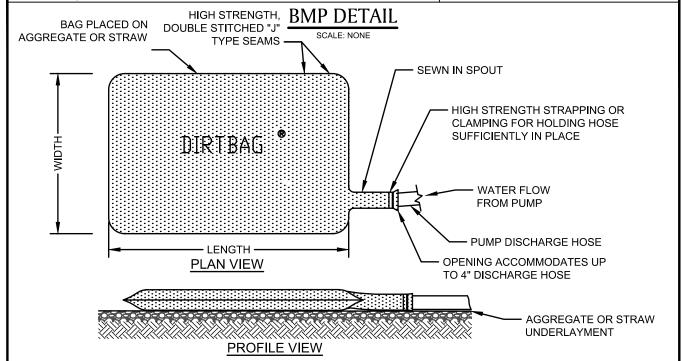
ENVIRONMENTAL GUIDANCE

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SUBJECT

Access, Maintenance and Construction Best Management Practices Reference

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



NOTE:

ONCE PUMPING COMMENCES, THE DIRT BAG SHALL BE MONITORED FREQUENTLY TO ASSURE THAT THE CONNECTIONS ARE SECURELY FASTENED AND THE RATE OF WATER DELIVERY TO THE STRUCTURE IS LOW ENOUGH TO PREVENT UNFILTERED WATER FROM FLOWING FROM THE HOSE CONNECTIONS OR BAG.

BMP PICTURE



* PICTURE AND DETAIL PROVIDED BY ACF ENVIRONMENTAL

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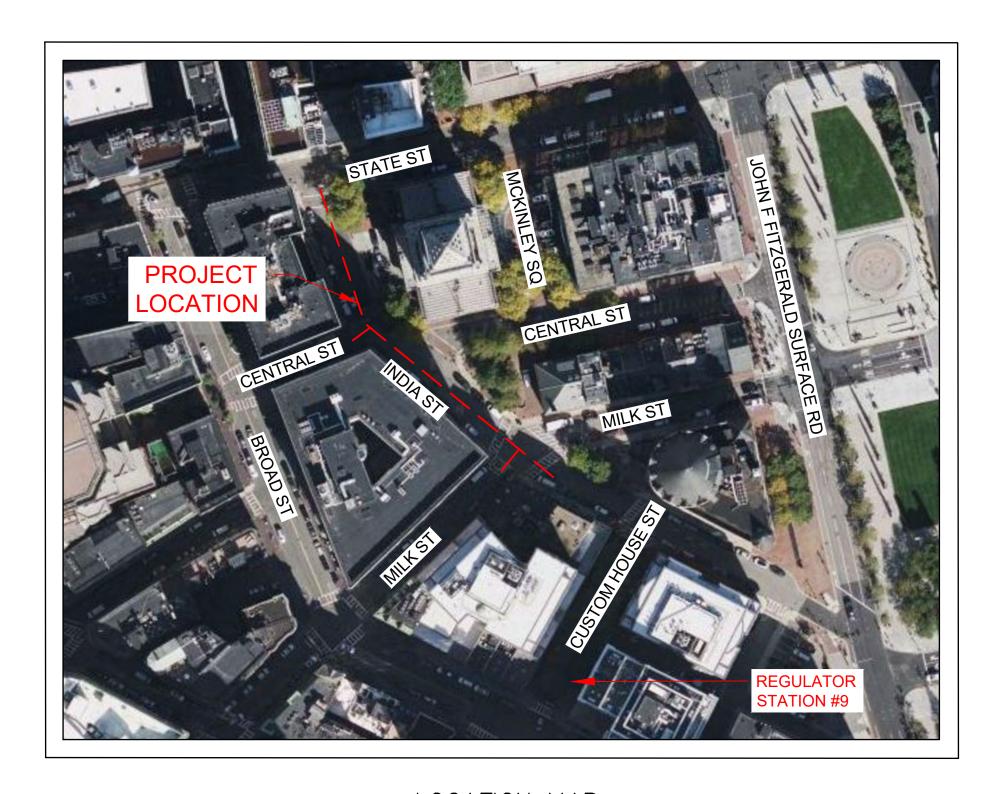
<u>AA-12</u> DIRTBAG *

www.tighebond.com

9 - 35 INDIA STREET GAS MAIN REPLACEMENT 6" & 12" C.I. & 12" C.S. TO 8" & 12" C.S. (L.P.) (9 - 35) INDIA ST, STATE ST, CENTRAL ST, & MILK ST, BOSTON, MA W.O. NO.: 1474472

PROJECT WITHIN 200' OF REGULATOR STATION #9

PIPE TOTALS				
DIAMETER	MATERIAL	INSTALLED		
6"	CI	10 LF		
8"	CS		10 LF	
12"	CI	355 LF		
12"	CS	60 LF	415 LF	



INDEX OF SHEETS				
SHEET	NAME	TITLE		
1	DDS-BOS-71220322 G-001	COVER - LOCATION MAP		
2	DDS-BOS-71220322 G-002	CONSTRUCTION NOTES		
3	DDS-BOS-71220322 G-003	CONSTRUCTION NOTES & BILL OF MATERIALS		
4	DDS-BOS-71220322 C-001	OVERALL LAYOUT SHEET & MBTA DETAIL		
5	DDS-BOS-71220322 C-101	TIE-IN & ABANDONMENT DETAILS		
6	DDS-BOS-71220322 C-201	STANDARD DETAILS		
7	DDS-BOS-71220322 C-202	STANDARD DETAILS		
8	DDS-BOS-71220322 C-203	STANDARD DETAILS		
9	DDS-BOS-71220322 C-204	STANDARD DETAILS		
10	DDS-BOS-71220322 C-205	EXISTING REGULATOR FLOW DIAGRAM		



LOCATION MAP

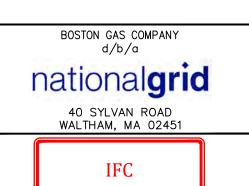
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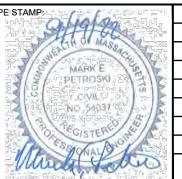
BOSTON, MA

SOLE: 11100









	Е	BOSTON CONSERVATION COMMISSION UPDATE #2	11/08/2022	TSN	DMJ	MEP
	D	BOSTON CONSERVATION COMMISSION UPDATE	11/07/2022	TSN	DMJ	MEP
1.0	С	MBTA PROFILE VIEW UPDATE	09/27/2022	TSN	DMJ	MEP
	В	BOM UPDATE	09/20/2022	TSN	DMJ	MEP
	Α	ISSUED FOR CONSTRUCTION	09/19/2022	TSN	DMJ	MEP
	NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY

9-35 INDIA STREET
GAS MAIN REPLACEMENT
INDIA ST, STATE ST, CENTRAL ST, & MILK ST
BOSTON, MA

COVER - LOCATION MAP

DESIGNER ENGINEER DATE: ASSET I.D. W.O. NO.:

DDS COMPANIES T. NOSAR 08/20/2022 XXXXXXXXX 1474472

*THE ENTIRE PROJECT AREA IS WITHIN LAND SUBJECT TO COASTAL STORM FLOWAGE

PAGE 01 OF 10	
DRAWING NO.	SHEET NO.
G-001	01

SCOPE OF WORK:

NATIONAL GRID WORK ORDER NUMBER: 1474472

PROJECT NAME AND LOCATION: 9-35 INDIA ST, BOSTON, MA

PROJECT SCOPE: AS PART OF THE CIRE101214 PROGRAM, LPP INTEGRITY MANAGEMENT RECOMMENDS THE RELAY OF:

- APRX 140 FEET OF 12 INCH, LP CAST IRON (1849), APRX 5 FEET OF 12 INCH, LP COATED STEEL (1987) UBOSO321, APRX 50 FEET OF 12 INCH, LP COATED STEEL (1986) - MBOSO023, APRX 215 FEET OF 12 INCH, LP CAST IRON (1849) AND APRX 5 FEET OF 12 INCH, LP COATED STEEL (1988) - UBOSO542 WITH APRX 415 FEET OF 12 INCH, LP STEEL IN INDIA ST FROM THE EXST 12 INCH, LP COATED STEEL (1974) — UBOSO459 AT STATE ST TO THE EXST 12 INCH, LP COATED STEEL (1997) - MBOSO200 AT MILK ST
- APRX 10 FEET OF 6 INCH, LP CAST IRON (1924) WITH APRX 10 FEET OF 8 INCH, LP STEEL IN THE INTERSECTION OF INDIA ST AND MILK ST.

5 MAIN CONNECTIONS

GENERAL CONSTRUCTION:

1. NO FIELD CHANGES SHALL BE MADE TO THIS PLAN WITHOUT APPROVAL OF ASSIGNED NATIONAL GRID PROJECT ENGINEER.

ENGINEER: JORGE DE LA CRUZ

PHONE: (781) 718–1957

EMAIL: JORGE.DELACRUZ@NATIONALGRID.COM

- 2. 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
- C. DISTRIBUTION MAIN MINIMUM COVER: 24 INCHES
- D. SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
- E. CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.
- 3. SERVICES SHOULD BE INSTALLED WITH 24 INCHES OF COVER.
- A. MINIMUM IN PUBLIC ROW: 18 INCHES
- B. 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 TEE 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 A CLEARANCE OF 12 INCHES FROM OTHER FACILITIES.
- 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.
- 7. 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.
- 8. 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 WITHIN THE SCOPE OF THE JOB OR WITHIN 200 FEET OF THE TIE-IN LOCATION.
 - 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. WHEN RELAYING A LOWER PRESSURE MAIN WITH A HIGHER PRESSURE MAIN. ALL SERVICES SHALL BE RELAYED OR INSERTED.
- 14. PIPE AND FITTING QUANTITY DESCRIBED IN SCOPE MAY VARY FROM AMOUNTS SHOWN ON THE BILL OF MATERIALS TO ACCOMMODATE FIELD CONDITIONS AND CONSTRUCTION.
- 15. CONTRACTOR TO REFER TO NATIONAL GRID SERVICE RECORD INFORMATION, ASSOCIATED CONSTRUCTION STANDARDS AND NATIONAL GRID INSTRUCTION FOR ALL SERVICE WORK WITHIN THE SCOPE OF LIMITS OF THIS PROJECT.
- 16. ANY FITTINGS (SUCH AS BUT NOT LIMITED TO. PURGES. VENTS & GAUGES) WHICH ARE REPRESENTED ON THESE PLANS AND DETAILS WITHOUT AN ASSOCIATED PART ON THE BILL OF MATERIALS ARE TO BE SIZED AND SELECTED PER CURRENT NATIONAL GRID STANDARDS BY THE CONTRACTOR.
- 17. THE CONTRACTOR SHALL CALL DIG-SAFE (DIAL 811) OR 888-344-7233 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS AND HOLIDAYS ARE EXCLUDED.
- 18. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PHYSICALLY LOCATE ON-SITE UTILITIES THROUGH TEST PIT EXCAVATION OF SAID UTILITIES W/ PRIOR AUTHORIZATION FROM UTILITY OWNER.
- 19. NOTIFY NATIONAL GRID I&R IF THE PROJECT IS WITHIN 200 FEET OF A REGULATOR STATION.
- 20. DIMENSIONS SHOWN ILLUSTRATE THE INTENT OF MAIN PLACEMENT. SLIGHT VARIATIONS ARE EXPECTED. ANY SIGNIFICANT CHANGE NEEDS TO BE BROUGHT TO THE OWNERS (NATIONAL GRID) ATTENTION PRIOR TO PLACEMENT.

- 21. CONTRACTOR TO VERIFY PRESSURE AND GAS FEED DIRECTION OF EXISTING MAINS, NEW MAINS, AND MAINS TO BE ABANDONED PRIOR TO ANY AND ALL TIE INS BEING PERFORMED.
- 22. LOCATION OF ANY IDENTIFIED UNDERGROUND UTILITIES IS APPROXIMATE ONLY, AND IS NOT WARRANTED TO BE CORRECT. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATION, ETC.
- 23. THE CONTRACTOR SHALL PROTECT AND MAINTAIN DIG SAFE FIELD MARKS, ANY EXISTING PROPERTY LINE MONUMENTATION OR OTHER EXISTING SURVEY STAKES OR FIELD MARKS. THE CONTRACTOR SHALL REPLACE AT THEIR EXPENSE ANYTHING DISTURBED OR DESTROYED.
- 24. THE CONTRACTOR SHALL COMPLETE MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PAVEMENT PATCHING, TRENCH & EQUIPMENT BLOCKING, TREE TRIMMING, ETC.
- 25. ANY SUBSURFACE UTILITIES. STRUCTURES AND/OR FIXED OBJECTS SHOWN AT, BELOW OR ABOVE GRADE SHOWN ON THESE PLANS HAVE BEEN PLACED BASED ON AVAILABLE RECORD MAPPING, AERIAL IMAGERY AND OTHER DESIGN RESOURCES. CONTRACTOR IS WARNED THAT EXACT OR APPROXIMATE LOCATION OF SUBSURFACE UTILITIES, STRUCTURES AND/OR FIXED OBJECTS SHOWN AT, BELOW OR ABOVE GRADE IN THE PROJECT AREA MAY DIFFER FROM THAT SHOWN OR MAY NOT BE SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO PERFORM FIELD VERIFICATION PRIOR TO EXECUTING ANY WORK.
- 26. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH
- THE LATEST NATIONAL GRID, APPLICABLE STATE DOT AND LOCAL MUNICIPAL STANDARDS 27. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE LATEST EDITION OF THE
- MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 28. ALL NECESSARY PRECAUTION FOR THE SAFETY OF THE PUBLIC SHALL BE TAKEN. ALL BARRIERS, WARNING LIGHTS AND OTHER DEVICES AND EQUIPMENT REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES SHALL BE MAINTAINED.
- 29. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO ALL OTHER EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE
- 30. CONTRACTOR MAY INSTALL ADDITIONAL VALVES NOT SHOWN IN THE PLANS IF DEEMED NECESSARY IN THE FIELD. NEW VALVES ASSOCIATED WITH TIE INS (SEE DETAILS ON SHEET 5) MUST BE INSTALLED PER THE DETAIL. FINAL LOCATION OF THE NEW VALVES IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. ANY SIGNIFICANT CHANGE MUST BE BROUGHT TO THE OWNERS (NATIONAL GRID) ATTENTION PRIOR TO
- 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUAINTING WITH THE CONDITIONS FOR THE SITE AND FOR ESTIMATING PROPERLY THE DIFFICULTY AND COST TO SUCCESSFULLY PERFORM THE WORK.
- 32. NATIONAL GRID RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT AS INTENDED AND INTERPRETED BY NATIONAL GRID.

DESIGN CRITERIA:

- 1. 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 B. NOMINAL SIZE: 8 & 12 INCH
- C. MATERIAL: COATED STEEL
- D. MAOP: L.P.
- 3. PIPE SIZE DETERMINED BY NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING

SEQUENCE OF CONSTRUCTION:

- 1. CONTRACTOR SHALL CALL DIGSAFE (DIAL 811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE
- 2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS DESIGN PRIOR TO CONSTRUCTION.
- 3. NOTIFY NATIONAL GRID I&R IF THE PROJECT IS WITHIN 200 FEET OF A REGULATOR
- 4. INSTALL MAIN AS INDICATED IN SCOPE OF WORK.
- 5. PRESSURE TEST (SEE PRESSURE TESTING SECTION)
- 6. MAKE CONNECTION IN DETAIL A.
- 7. PURGE NEW MAIN INTO SERVICE.
- 8. TRANSFER/RELAY SERVICES TO NEW MAIN. 9. COMPLETE CONNECTIONS IN DETAILS B, C, & D.
- 10. COMPLETE CONNECTION IN DETAIL E. OLD MAIN GO DEAD.
- 11. PURGE OLD MAIN OUT OF SERVICE AND ABANDON.
- 12. PERFORM RESTORATION.

CODES & STANDARDS

- 1. 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
- 3. FEDERAL & STATE:
 - A. TITLE 49: PART 192 TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS
 - B. 220 CMR: DEPARTMENT OF PUBLIC UTILITIES
 - 100.00 113.00: MASSACHUSETTS GAS DISTRIBUTION CODE
 - C. AMERICAN SOCIETY OF MECHANICAL ENGINEERS
 - B31.8: GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS D. 248 CMR 4-7: MA FUEL GAS CODE
- 4. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID GAS POLICIES AND WORK METHODS, INCLUDING BUT NOT LIMITED TO:
 - A. CNST01003: BACKFILL AND RESTORATION
 - B. CNST01005: PREPARATION OF GAS FACILITY HISTORICAL RECORDS
 - C. CNST01006: COMMERCIALLY AVAILABLE SHORING SYSTEMS
- D. CNST02014: ENCAPSULATING CAST IRON JOINTS
- E. CNST03001: SQUEEZE-OFF OPERATIONS F. CNST03002: STOP-OFF OPERATIONS ON LOW PRESSURE MAINS
- G. CNST03005: PURGING REQUIREMENTS FOR GAS PIPELINES
- a. CNST03006: PURGING OPERATIONS DIRECT DISPLACEMENT b. CNST03007: PURGING OPERATIONS - COMPLETE INERT FILL
- c. CNST03008: PURGING OPERATIONS SLUG METHOD H. CNST03014: STOP OFF OPERATIONS FOR KLEISS EQUIPMENT
- I. CNST04005: INSTALLING STEEL DISTRIBUTION MAINS
- J. CNST04007: FIELD COLD BENDING OF LINE PIPE
- K. CNST04008: INSTALLING PLASTIC MAINS
- L. CNST04011: ABANDONMENT OF MAINS
- M. CNST04012: GROUTING ABANDONED PIPELINES
- N. CNST04030: RAISING MAIN AND SERVICE GATE BOXES
- O. CNST05001: JOINING OF PLASTIC PIPE P. CNST5010: GENERAL CONSTRUCTION REQUIREMENTS AND PIPE HANDLING
- Q. DAMO1011: EXCAVATION AND EXCAVATION NOTIFICATION REQUIREMENTS FOR UNDERGROUND FACILITIES FOR
- MASSACHUSETTS AND RHODE ISLAND
- R. DAMO1015: LOCATE AND MARK-OUT REQUIREMENTS FOR UNDERGROUND GAS FACILITIES S. DAMO1016: LOCATE AND MARK-OUT OF UNDERGROUND FACILITIES
- T. GCON02001: SYSTEM OPERATING PROCEDURE (SOP)
- U. GEN01100: OPERATOR QUALIFICATION PLAN
- V. GEN03002: PROCESSING GAS MAIN AND NEW SERVICE WORK PACKAGES W. GEN03004: CHANGE CONTROL PROCEDURE FOR STANDARD CONSTRUCTION PROJECTS
- X. INRO6002: SUPPLEMENTAL ODORIZATION FOR NEW PIPING
- NOTIFY I&R FOR PROJECTS IN EXCESS OF 2500 FEET. ODOR MONITORING AND/OR SUPPLEMENTAL
- ODORIZATION MAY BE REQUIRED Y. MAIN5030: INSTALLATION OF POLYETHYLENE PIPE
- Z. MECH5010: JOINTS OTHER THAN WELDED
- AA. 030018-CS: SPECIFICATION AND HANDLING OF TRAFFIC PLATES
- AB. CNST01001: HORIZONTAL DIRECTIONAL DRILLING AC. CNST03011: NO-INTERRUPT SERVICE TRANSFER
- AD. CNST6061: TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES
- AE. MECH6010: CONNECTION OF DISSIMILAR POLYETHYLENE PLASTIC PIPE WITH ELECTROFUSION OR MECHANICAL COUPLING
- AF. CS-CNST002: TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES
- 5. SERVICE SPECIFIC CONSTRUCTION STANDARDS, GAS POLICIES AND WORK METHODS:
- A. CMS03002: CUSTOMER METER AND SERVICE REGULATOR DESIGN AND INSTALLATION POLICY
- B. CMS04002: PURGING PROCEDURES FOR CUSTOMER METER SERVICES
- C. CNST03011: NO-INTERRUPT SERVICE TRANSFER D. CNST06002: INSTALLING DISTRIBUTION SERVICES
- E. CNST06003: INSTALLATION & MAINTENANCE POLICY FOR CURB VALVES ON SERVICE LINES WITH INSTALLED
- METER CAPACITIES OVER 1.000 SCFH THAT DON'T HAVE EXCESS FLOW VALVES F. CNST06009: METER/SERVICE RELOCATION GUIDELINE
- G. CNST06020: COMPLETION AND PROCESSING OF GAS SERVICE RECORD CARDS
- H. CNST06030: NOTIFICATION OF CUSTOMERS INVOLVED IN THE INTERRUPTION OF GAS SERVICE I. CS-SERVOO1: TYPICAL 1/2" SERVICE OUTSIDE SETS
- J. CS-SERVOO2: TYPICAL 1" SERVICE OUTSIDE SETS
- K. CS-SERV003: TYPICAL 1-1/4" SERVICE OUTSIDE SETS
- L. CS-SERV004: TYPICAL 2" SERVICE M. CS-SERVOO5: EXCESS FLOW VALVE REQUIREMENTS ON HP SERVICES
- N. CS-SERVOO9: TYPICAL 1/2" SERVICE INSIDE SETS
- O. CS-SERVO10: TYPICAL 1" SERVICE INSIDE SETS P. HTAP-6010: NO-INTERRUPT 1 INCH CTS AND 1-1/4 INCH CTS SERVICE TRANSFER (NIST) LP TO 60 PSIG
- Q. SERV-5075: RELOCATION OF METER SET ASSEMBLIES INSIDE TO OUTSIDE
- R. SERV6076: 1-1/4" LP PLASTIC SERVICE WITH 1 AL-250 TC METER
- S. SERV6077: 1-1/4" CTS LP PLASTIC INSERT WITH 1 AL-250 TC EQUIV. METER INSIDE
- T. SERV-6185: HOT TAPPING MD BRANCH SADDLES OFF 4IN 12IN 60 PSIG MAOP LIVE PLASTIC GAS MAIN USING MCELROY HOT TAPPING TOOL
- U. 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 "FITS" REFERENCE.
 - 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.

XXXXXXXX

*THE ENTIRE PROJECT AREA IS WITHIN LAND SUBJECT TO COASTAL STORM FLOWAGE

WO NO:

1474472

GAS MAIN REPLACEMENT INDIA ST, STATE ST, CENTRAL ST, & MILK ST

9-35 INDIA STREET

BOSTON, MA **CONSTRUCTION NOTES**

SHEET NO. DRAWING NO G-002 02

PAGE 02 OF 10

45 HENDRIX ROAD WEST HENRIETTA. NY 14586 PHONE (585) 359-7540 FAX (585) 359-7541

d/b/a nationalgrid 40 SYLVAN ROAD WALTHAM, MA 02451 **IFC**

BOSTON GAS COMPANY



BOSTON CONSERVATION COMMISSION UPDATE #2 11/08/2022 TSN DMJ MEP D BOSTON CONSERVATION COMMISSION LIPDATE TSN DMJ MEP 11/07/2022 MBTA PROFILE VIEW UPDATE 09/27/2022 TSN DMJ MEP BOM UPDATE 09/20/2022 TSN DMJ MEP ISSUED FOR CONSTRUCTION 09/19/2022 TSN | DMJ | MEP | DESCRIPTION DATE

T. NOSAR

DWG SIZE

DDS COMPANIES

22"X34"

DESIGNER DATE: ASSET I.D. ENGINEER

08/20/2022

PRESSURE TESTING REQUIREMENTS:

- 1. PRESSURE TEST ALL DISTRIBUTION PIPING IN ACCORDANCE WITH:
- A. CNST04003: PRESSURE TESTING MAINS OPERATING BELOW 125 PSIG
- B. TEST PRESSURE (MINIMUM): 90 PSIG
- C. TEST DURATION BASED ON LENGTH AND DIAMETER IN ACCORDANCE WITH TABLE 1 OF CNSTO4003. D. TEST MEDIUM: AIR AND/OR NITROGEN
- 2. PRESSURE TEST SERVICES IN ACCORDANCE WITH:
 A. CNST06008: PRESSURE TESTING SERVICE LINES

WELDING:

- 1. NATIONAL GRID WELDING POLICIES AND PROCEDURES INCLUDE:
 - A. CNST05002: WELDING POLICY
 - B. CNST05003: PIPE WELDING SAFETY
 - C. CNST05005: WELDING PROCEDURE SPECIFICATIONS D. 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.
- 3. 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 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
 C. FILLET WELDS: 10% MAGNETIC PARTICLE
- 5. NDE AND WELD MAP SHALL BE PROVIDED BY SKYTESTING.
- 6. SKYTESTING SCHEDULING CONTACT:
- WILLIAM (BILL) CLARK CELL: 704-858-7794

EMAIL: WCLARK@SKYTESTING.COM

CATHODIC PROTECTION:

- 1. IF EXISTING TEST STATIONS, WIRES, AND/OR MAGNESIUM ANODES ARE DISTURBED OR DAMAGED NOTIFY THE NATIONAL GRID CORROSION DEPARTMENT:
 - DAVE HALNEN (781) 379-7831 FOR SUPERVISOR ISSUES
 ALANNA GRONDINE (339) 225-5378 FOR ENGINEERING ISSUES
 ALLISIA APINIAN-MARGIOS (781) 296-7569 FOR MANAGEMENT ISSUES
- 2. 24 HOUR NOTICE IS REQUIRED PRIOR TO INSTALLATION OF INSULATED FITTINGS TO ALLOW FOR ACCEPTANCE TESTING.
- 3. NATIONAL GRID CORROSION GAS POLICIES AND WORK METHODS INCLUDE:
 - A. CORO1100: CORROSION DESIGN CRITERIA
 B. CORO2001: APPLICATION OF COATING SYSTEMS
- C. CORO2001: AFFEICATION OF COATING STSTEMS

 C. CORO2020: INSPECTING EXPOSED STEEL PIPE FOR CORROSION
- D. COR02021: INSPECTING EXPOSED CAST OR DUCTILE PIPING FOR GRAPHITIZATION
- E. CORO3001: TESTING OF PIPE COATING (JEEP TESTING)
 F. CORO4001: INSTALLATION OF MAGNESIUM ANODES
- G. CORO4003: INSTALLATION OF MAGNESIOM ANODES

 G. CORO4003: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
- H. CORO4004: INSTALLATION OF WIRE CONNECTIONS
 I. CORO4005: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION
- J. 030031—CS: FACILITY COATING GUIDE
- K. 030026-CS: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
- P. 030036-CS: INSTALLING WIRE CONNECTIONS
- 4. CORROSION DESIGN:
- A. SEE DETAILS A, B, C, & E ON SHEET 05:
 - INSTALL AN INSULATED COUPLING, A STEEL SPOOL PIECE AND A SECOND INSULATED COUPLING BETWEEN THE EXISTING COATED STEEL MAIN AND THE PROPOSED COATED STEEL MAIN. INSTALL A 6—WIRE TEST STATION ACROSS THE INSULATORS. INCLUDE 4—17 LB ANODES SPACED AT LEAST 8 FT APART AND 1 FT BELOW THE MAIN USING A SINGLE HEADER CABLE. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION.
- D. SEE DETAIL D ON SHEET 05:
 INSTALL A 2-WIRE TEST STATION TO THE PROPOSED COATED STEEL MAIN AT THE COATED STEEL/PLASTIC INTERFACE. INCLUDE 4-17 LB ANODES SPACED AT LEAST 8 FT APART AND 1 FT BELOW THE MAIN USING A SINGLE HEADER CABLE. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION.
- 5. STEEL PIPE, FITTINGS, VALVES AND OTHER CARBON STEEL COMPONENTS TO BE BURIED WHICH ARE NOT FACTORY COATED FOR BURIED SERVICE SHALL BE FIELD COATED.

ENVIRONMENTAL:

- 1. WORK SHALL CONFORM TO THE NATIONAL GRID ENVIRONMENTAL POLICY.
- 2. NATIONAL GRID ENVIRONMENTAL CONTACT:
- NAME: JAIME WALKER
 - PHONE: (978) 551-1156
 EMAIL: JAIME.WALKER@NATIONALGRID.COM
- 3. CONTRACTOR SHALL REVIEW THE PROJECT WORK ORDER PACKAGE FOR 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 THAT IS CONTAMINATED SHALL LEAVE THE WORK SITE UNTIL ENVIRONMENTAL HAS MADE A DETERMINATION FOR ITS PROPER DISPOSAL.
- 6. NATIONAL GRID ENVIRONMENT POLICIES AND PROCEDURES INCLUDE:
 - A. SHE02001: HANDLING CONTAMINATED MATERIALS AND PIPING B. SHE02002: REMOVING MERCURY REGULATORS AND DEVICES
 - C. SHE02003: ENCOUNTERING CONTAMINATION WHILE EXCAVATING
 - D. EG303-NE: BEST MANAGEMENT PRACTICES E. EG140: USED GAS PIPE MANAGEMENT
- 7. ENVIRONMENTAL REQUIREMENTS:
- PROPOSED WORK LOCATED WITHIN 100 FEET OF WETLANDS AND/OR BODIES OF WATER / WITHIN 200 FEET OF A RIVER OR A STREAM (*25 FEET IN BOSTON, BROCKTON, CAMBRIDGE, CHELSEA, EVERETT, FALL RIVER, LAWRENCE, LOWELL, MALDEN, NEW BEDFORD, SOMERVILLE, SPRINGFIELD, WINTHROP, OR WORCESTER) / WITHIN A FLOODPLAIN.

SAFETY:

- 1. WORK SHALL CONFORM TO THE NATIONAL GRID EMPLOYEE SAFETY HANDBOOK AND OSHA REQUIREMENTS.
- 2. REQUIRED PPE SHALL BE WORN AND UTILIZED IN ACCORDANCE WITH THE CURRENT NATIONAL GRID SAFETY POLICY.
- 3. A NATIONAL GRID APPROVED CONTRACTOR HEALTH AND SAFETY PLAN (HASP) IS REQUIRED PRIOR TO CONSTRUCTION.
- 4. CONSTRUCTION SIGNING, DRUMS, BARRICADES, AND OTHER TRAFFIC CONTROL 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 PROCEDURES COVER THE FOLLOWING CATEGORIES:

 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. NATIONAL GRID SAFETY POLICIES AND PROCEDURES INCLUDE:
 - A. SHE01001: GENERAL SAFETY REQUIREMENTS
 B. SHE01002: SUPPLIED—AIR RESPIRATORS
 - SHE01003: USING AND MAINTAINING PORTABLE GAS MONITORS
 - D. SHE01004: USING AND MAINTAINING FLAME IONIZATION UNITS E. SHE01005: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE
- F. SHE01006: ENTERING GAS UTILITY VAULTS
 G. SHE01008: USING AND MAINTAINING THE GAS EXPLORER
- H. SHE01009: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE
- I. SHE01010: THE APPLICATION OF FORMAL PROCESS SAFETY ASSESSMENTS TO HIGHER-RISK GAS ACTIVITIES PERFORMED IN THE FIELD
- 7. JOB BRIEFINGS, AT A MINIMUM, SHALL BE CONDUCTED BEFORE THE START OF THE FIRST JOB ON EACH DAY OR SHIFT. ADDITIONAL BRIEFINGS MAY BE REQUIRED AFTER EXTENDED WORK BREAKS.
- 8. ANY AND ALL WORKERS THAT HAVE ANY POTENTIAL TO COME INTO CONTACT WITH SOIL AND/OR GROUNDWATER MUST HAVE UP-TO-DATE OSHA 40-HOUR HAZWOPER TRAINING. COPIES OF OSHA CERTIFICATES/TRAINING REFRESHERS SHALL BE PROVIDED TO NATIONAL GRID FOR REVIEW PRIOR TO THE START OF WORK.

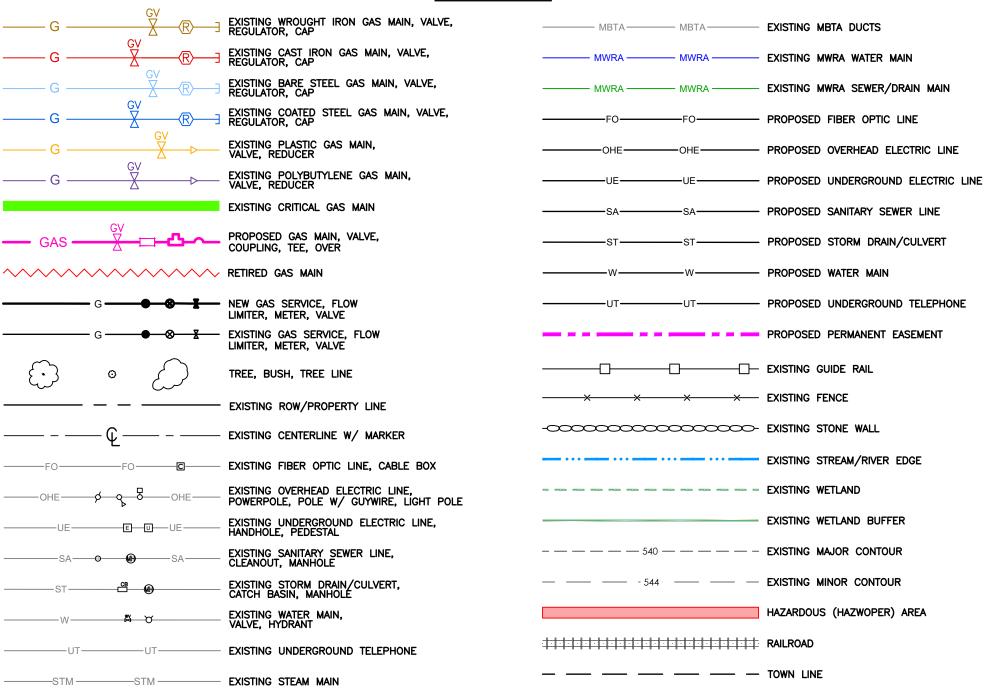
OTHER PERMITTING REQUIREMENTS:

- 1. CITY OF BOSTON STREET OPENING PERMIT
- 2. TRAFFIC MANAGEMENT PLAN (TMP) (TO BE COMPLETED BY FEENEY BROTHERS)
- MBTA PERMIT
- 4. ENVIRONMENTAL PERMIT AND/OR THE USE OF ENVIRONMENTAL BMPS MAY BE REQUIRED.

REFERENCE DRAWINGS:

1. LOCATION OF IDENTIFIED UNDERGROUND UTILITIES ARE AN APPROXIMATE BASED ON AVAILABLE RECORD AND FIELD INFORMATION IN ACCORDANCE WITH CI/ASCE 38-02. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT IDENTIFIED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATIONS, ETC.

LEGEND



	BILL OF MATERIALS						
					NATIONAL	SAP ID	
ITEM	QTY	UOM	DESCRIPTION	SIZE (IN.)	GRID	NUMBER	
					REFERENC	NUMBER	
1	10	FT	PIPE, SDR 11.5, MDPE, 4.50 IN. O.D. X .395 IN. WALL THICKNESS, 40 FT LENGTHS	4	120020-MS	9340857	
_	40		PIPE, CARBON STEEL, SCH 40, 0.237 IN. WALL, GRADE X 42. PRITEC WRAPPED SPECIAL	4	400000 840	0000005	
2	10	FT	RATIO WITH 15/60	4	120020-MS	9322665	
3	10	FT	PIPE, COATED STEEL, SCH 40, 0.280 IN. WALL, API-5L GRADE B PSL-1, 40 FT LENGTHS	6	120020-MS	9340726	
4*	40	FT	PIPE, CARBON STEEL, SCH 40, 0.322 IN WALL, API-5L GRADE B PSL-2, 40 FT LENGTHS	8	120020-MS	9340825	
5*	440	FT	PIPE, CARBON STEEL, SCH 40 0.375 IN WALL, API 5L X42 PSL-2, 40 FT LENGTHS	12	120020-MS	9340771	
6	1	EA	CAP, BUTT FUSION, MDPE	4	120026-MS	9339534	
7	1	EA	CAP, ELECTROFUSION, HDPE	4	120025-MS	9393582	
-	· · ·		CAP, LINE, VENTED, SELF RESTRAINING BOLTED, COMPRESSION, FOR STEEL, CONDUCTIVE,				
8	2	EA	5IN Lx0.250IN THK MIDDLE RING	6	FITS6014	9314880	
			CAP, LINE, VENTED, SELF RESTRAINING BOLTED, COMPRESSION, FOR STEEL, CONDUCTIVE,				
9	2	EA	5IN Lx0.250IN THK MIDDLE RING	12	FITS6014	9315212	
10	1	EA	COUPLING, ELECTROFUSION, BLACK, HDPE	4	120025-MS	9314593	
11	1						
	1	EA	COUPLING, COMPRESSION, RESTRAINING, INSULATED, BOLTED, STEEL X STEEL/PE	4	FITS6025	9314427	
12	1	EA	STIFFENER, INSERT, METAL, FOR SDR 11.5 PIPE	4	FITS6025	9340106	
13	4	EA	COUPLING, COMPRESSION, RESTRAINING, INSULATED, BOLTED, STEEL X STEEL/PE	6	FITS6025	9314426	
14	4	EA	COUPLING, COMPRESSION, RESTRAINING, INSULATED, BOLTED, STEEL X STEEL/PE	12	FITS6025	9307629	
15	1	EA	ELBOW, WELD, 90 DEGREE, LONG RADIUS, STEEL, STANDARD WALL 0.237 IN, PER ANSI	4	120020-MS	9315385	
13	'		B16.9, ASTM A-234, GRADE WPB	4	120020-1013	9313363	
10	0	_^	ELBOW, WELD, 45 DEGREE, LONG RADIUS, STEEL, STANDARD WALL 0.280 IN, PER ANSI	6	400000 MC	0200040	
16	2	EA	B16.9, ASTM A-234, GRADE WPB	6	120020-MS	9308618	
4 = 4			ELBOW, WELD, 45 DEGREE, LONG RADIUS, STEEL, STANDARD WALL 0.322 IN, PER ANSI		400000 140		
17*	3	EA	B16.9, ASTM A-234, GRADE WPB	8	120020-MS	9307720	
			ELBOW, WELD, 45 DEGREE, LONG RADIUS, STEEL, STANDARD WALL 0.375 IN, PER ANSI				
18*	9	EA	B16.9, ASTM A-234, GRADE WPB	12	120020-MS	9308373	
			TEE, WELD, STEEL, STANDARD WEIGHT, STANDARD WALL 0.375 IN, PER ANSI B16.9, ASTM A-				
19*	2	EA	234, GRADE WPB	12	120020-MS	9315875	
			'				
20*	1	EA	TEE, WELD, STEEL, STANDARD WEIGHT, STANDARD WALL 0.375IN X 0.322IN, PER ANSI B16.9,	12X12X8	120020-MS	9315877	
			ASTM A-234, GRADE WPB				
21	1	EA	REDUCER, STEEL, WELD, CONCENTRIC, STANDARD WALL 0.322 IN X 0.237 IN, PER ASTM A-	8X4	120020-MS	9315725	
			234, GRADE WPB		.200200		
22	2	EA	REDUCER, STEEL, WELD, CONCENTRIC, STANDARD WALL 0.375 IN X 0.280 IN, PER ASTM A-	12X6	120020-MS	9315744	
22			234, GRADE WPB	12/10	120020-1010	3313744	
23	1	EA	VALVE, BALL, DELTA, FIG 55, FULL PORT, WE X WE	8	VALV6010	9323331	
24	1	EA	VALVE BOX FOR 8" CS FULL PORT VALVE	8	VALV6010	9307586	
25	4	EA	VALVE, BALL, DELTA, FIG 55, FULL PORT, WE X WE	12	VALV6010	9341948	
26	4	EA	VALVE BOX FOR 12" CS FULL PORT VALVE	12	VALV6010	9307586	
	_		FITTING, SHORTSTOPP, WELD, CONTOURED BASE INCLUDES THREADED COMPLETION PLUG				
27	8	EA	AND THREADED CAP	1 1/2	FITS6055	9382855	
			FITTING, SHORTSTOPP, WELD, CONTOURED BASE INCLUDES THREADED COMPLETION PLUG				
28	1	EA	AND THREADED CAP	2	FITS6055	9341087	
			FITTING, SHORTSTOPP, WELD, CONTOURED BASE INCLUDES THREADED COMPLETION PLUG				
29	8	EA		3	FITS6055	9382856	
0.0	4		AND THREADED CAP	10)/ 1	00 55044	000000	
30	4	EA	SADDLE, FOR CAST IRON MAIN, SMITH BLAIR 310	12X4	CS-FIT014	9308283	
31	4	EA	PLUG, SCREW, MALLEABLE IRON, SQUARE HEAD, STANDARD, THREADED FITTINGS	4		9308743	
32	1	EA	TAPE, YELLOW CAUTION, GAS MAIN, 1000' ROLL	6	CNST6061	9341904	
33	10	FT	WIRE, TRACER, DIRECT BURY USE		CNST6060	9315005	
34	5	EA	9X9 TEST STATION BOX	9X9	030026-CS	9339391	
35	5	EA	TEST STATION BOX COVER	9	030026-CS	9339797	
36	20	EA	ANODE, MAGNESIUM, 17LB, HIGH POTENTIAL	30	120004-MS	9311183	
					•		

BILL OF MATERIALS

* SOME QUANTITIES LABELED ON LAYOUT SHEETS

UTILITY OWNER INFORMATION:

SEWER:

BOSTON WATER & SEWER DEPARTMENT
#980 HARRISON AVE.
BOSTON, MA 02119

DRAIN:

BOSTON WATER & SEWER DEPARTMENT
#980 HARRISON AVE.
BOSTON, MA 02119

WATER:

BOSTON WATER & SEWER DEPARTMENT
#980 HARRISON AVE.
BOSTON, MA 02119

ELECTRIC:

BOSTON DPW STREET LIGHTING
#400 FRONTAGE RD.

#400 FRONTAGE RD.
BOSTON, MA 02118

EVERSOURCE ELECTRIC "A"
#1165 MASSACHUSETTS AVE.
DORCHESTER, MA 02125

DWG SIZE

22"X34"

DESIGNER

DDS COMPANIES

RAILROAD: MBTA DOCUMENT CONTROL GROUP #500 ARBORWAY BOSTON, MA 02130

S: NATIONAL GRID GAS #40 SYLVAN RD. WALTHAM, MA 02451

VERIZON

TELEPHONE:

#385 MYLES STANDISH BLVD.
TAUNTON, MA 02780

CABLE: COMCAST CABLE CORPORATION

PO BOX #6505, #5 OMNI WAY
CHELMSFORD, MA 01824

AT&T / TELEPORT COMMUNICATIONS AMERICA

#50 MALL RD — SUITE #203 BURLINGTON, MA 1803

CROWN CASTLE #80 CENTRAL ST BOXBOROUGH, MA 01719

FIRST LIGHT #359 CORPORATE DR PORTSMOUTH, NH 03801

*THE ENTIRE PROJECT AREA IS WITHIN LAND SUBJECT TO COASTAL STORM FLOWAGE

1474472



45 HENDRIX ROAD WEST HENRIETTA, NY 14586 PHONE (585) 359-7540 FAX (585) 359-7541





A Property						
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	D	BOSTON CONSERVATION COMMISSION UPDATE	11/07/2022	TSN	DMJ	MEP
037 H2 / 5 - / 5	С	MBTA PROFILE VIEW UPDATE	09/27/2022	TSN	DMJ	MEP
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A	Α	ISSUED FOR CONSTRUCTION	09/19/2022	TSN	DMJ	MEP
	NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY

9-35 INDIA STREET

GAS MAIN REPLACEMENT

INDIA ST, STATE ST, CENTRAL ST, & MILK ST

BOSTON, MA

CONSTRUCTION NOTES & BILL OF MATERIALS

DATE:

08/20/2022

XXXXXXXX

ENGINEER

T. NOSAR

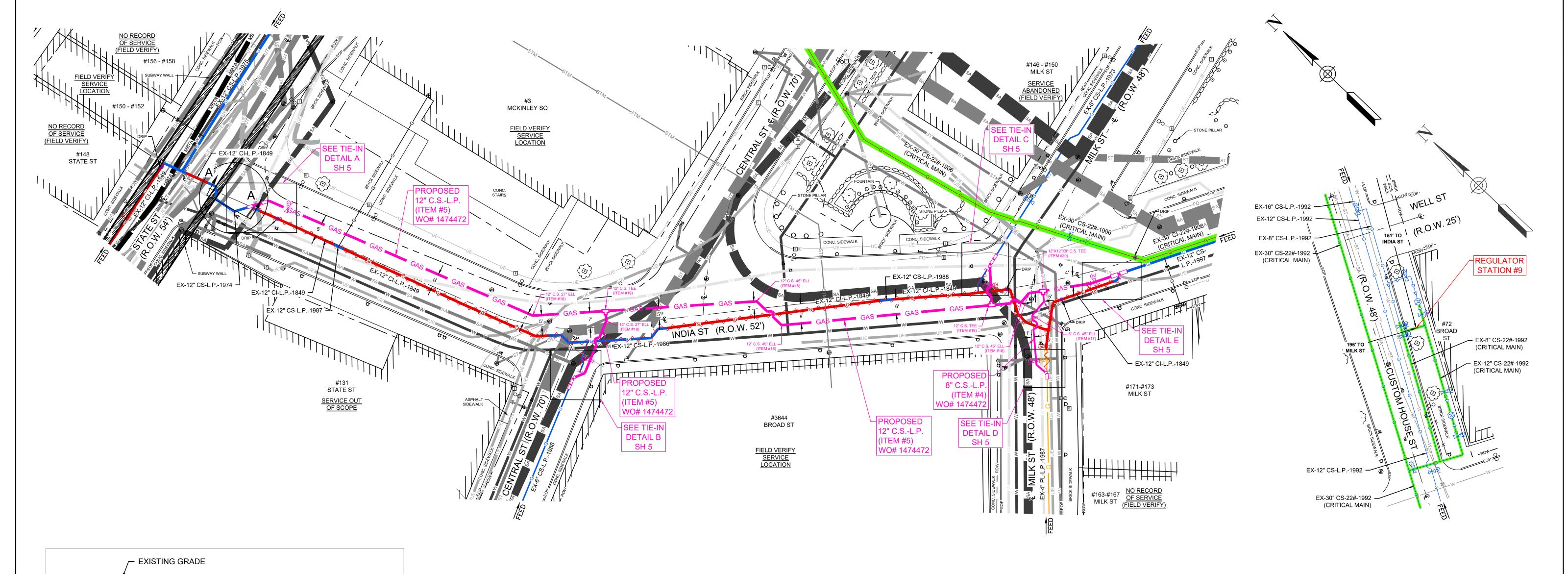
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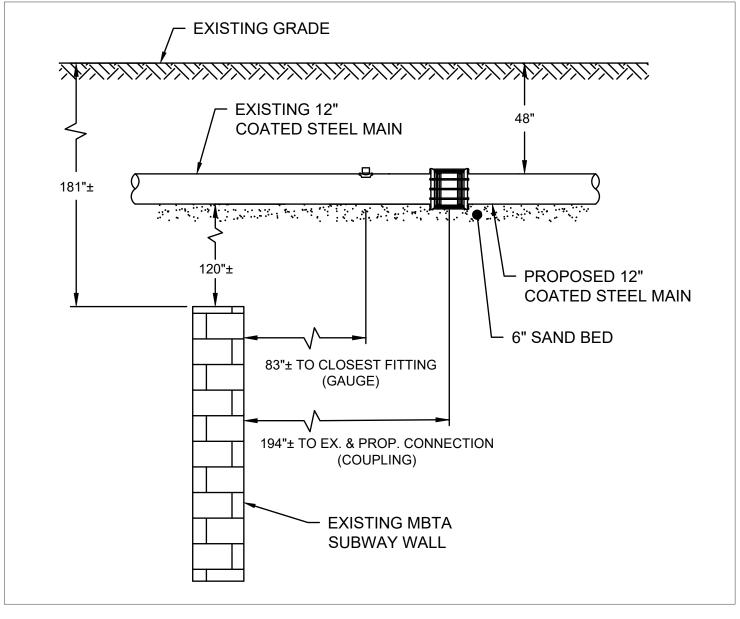
OF MATERIALS

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

SHEET NO.

03





PROFILE DETAIL: SECTION A-A AT MBTA

N.T.S

DESIGN PARAMETERS:

1474472 - 9-35 INDIA ST. BOS SYSTEM NUMBER: BOSTON LP SYSTEMS' MOPS (PSIG, OR "LP"): LP (0.5 PSIG) EXPECTED OPERATING PRESSURE RANGE: 4.5 INWC - 14 INWC DESIGN DAY TEMPERATURE (F): 0°F MIN & MAX OPERATING TEMPERATURE RANGE (F): -20°F TO +73°F DESIGN FACTOR: 0.4

STREET NAME: INDIA ST SIZING RECOMMENDATION: 12IN ST NEW MAINS' DESIGN PRESSURE: 14 INWC DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 40 SINGLE FEED SYSTEM: NO

STREET NAME: INTERSECTION OF MILK ST/INDIA ST SIZING RECOMMENDATION: 8IN ST NEW MAINS' DESIGN PRESSURE: 14 INWC DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 5 SINGLE FEED SYSTEM: NO

REVIEWED BY: KASEY ELKIN. REVIEW DATE: 05/24/2022

SCOPE OF WORK:

NATIONAL GRID WORK ORDER NUMBER: 1474472

PROJECT NAME AND LOCATION: 9-35 INDIA ST, BOSTON, MA

PROJECT SCOPE: AS PART OF THE CIRE101214 PROGRAM, LPP INTEGRITY MANAGEMENT RECOMMENDS THE RELAY OF:

- APRX 140 FEET OF 12 INCH, LP CAST IRON (1849), APRX 5 FEET OF 12 INCH, LP COATED STEEL (1987) UBOS0321, APRX 50 FEET OF 12 INCH, LP COATED STEEL (1986) - MBOS0023, APRX 215 FEET OF 12 INCH, LP CAST IRON (1849) AND APRX 5 FEET OF 12 INCH, LP COATED STEEL (1988) - UBOS0542 WITH APRX 415 FEET OF 12 INCH, LP STEEL IN INDIA ST FROM THE EXST 12 INCH, LP COATED STEEL (1974) - UBOS0459 AT STATE ST TO THE EXST 12 INCH, LP COATED STEEL (1997) - MBOS0200 AT MILK ST
- APRX 10 FEET OF 6 INCH, LP CAST IRON (1924) WITH APRX 10 FEET OF 8 INCH, LP STEEL IN THE INTERSECTION OF INDIA ST AND MILK ST.

NOTE:

- 1. CONTACT INSTRUMENTATION AND REGULATION BEFORE WORKING WITHIN 200 FEET OF A REGULATOR STATION. BEFORE DOING TIE-IN, CONTACT GAS CONTROL, INSTRUMENTATION AND REGULATION, AND OPERATIONS ENGINEERING REGARDING POTENTIAL NEED TO SHUT DOWN THE STATION.
- 2. ALL CONTROL AND SENSE LINES ARE TO BE FIELD LOCATED PRIOR TO CONSTRUCTION. CONTACT I&R AND DAMAGE PREVENTION FOR CONTROL AND SENSE LINE FIELD LOCATION.

DDS COMPANIES

- 3. STEAM LINE IN CENTRAL ST. PLASTIC CANNOT BE INSTALLED WITHIN 18 FT OF THE STEAM LINE IN ACCORDANCE **TO ENG04001 AND ENG02001**
- 4. MBTA PERMIT REQUIRED TO PERFORM WORK IN STATE ST. BOS.

TSN DMJ MEP

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TSN DMJ MEP

11/08/2022

11/07/2022

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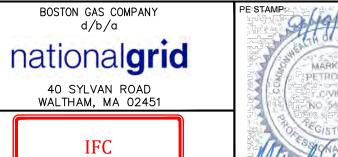
09/19/2022

5. THE ENTIRE PROJECT AREA IS WITHIN LAND SUBJECT TO COASTAL STORM FLOWAGE.

22"X34"



45 HENDRIX ROAD PHONE (585) 359-7540 FAX (585) 359-7541



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FAMARKE SYN	Е	BOSTON CONSERVATION COMMISSION UPDATE #2
	D	BOSTON CONSERVATION COMMISSION UPDATE
	С	MBTA PROFILE VIEW UPDATE
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JA SUCKAN POLICE	Α	ISSUED FOR CONSTRUCTION
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9-35 INDIA STREET GAS MAIN REPLACEMENT INDIA ST, STATE ST, CENTRAL ST, & MILK ST ROSTON MA

T. NOSAR

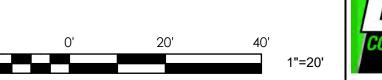
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WG SIZE	DESIGNER	FNGINFFR	DATF.	ASSET I.D.	W O NO

08/20/2022

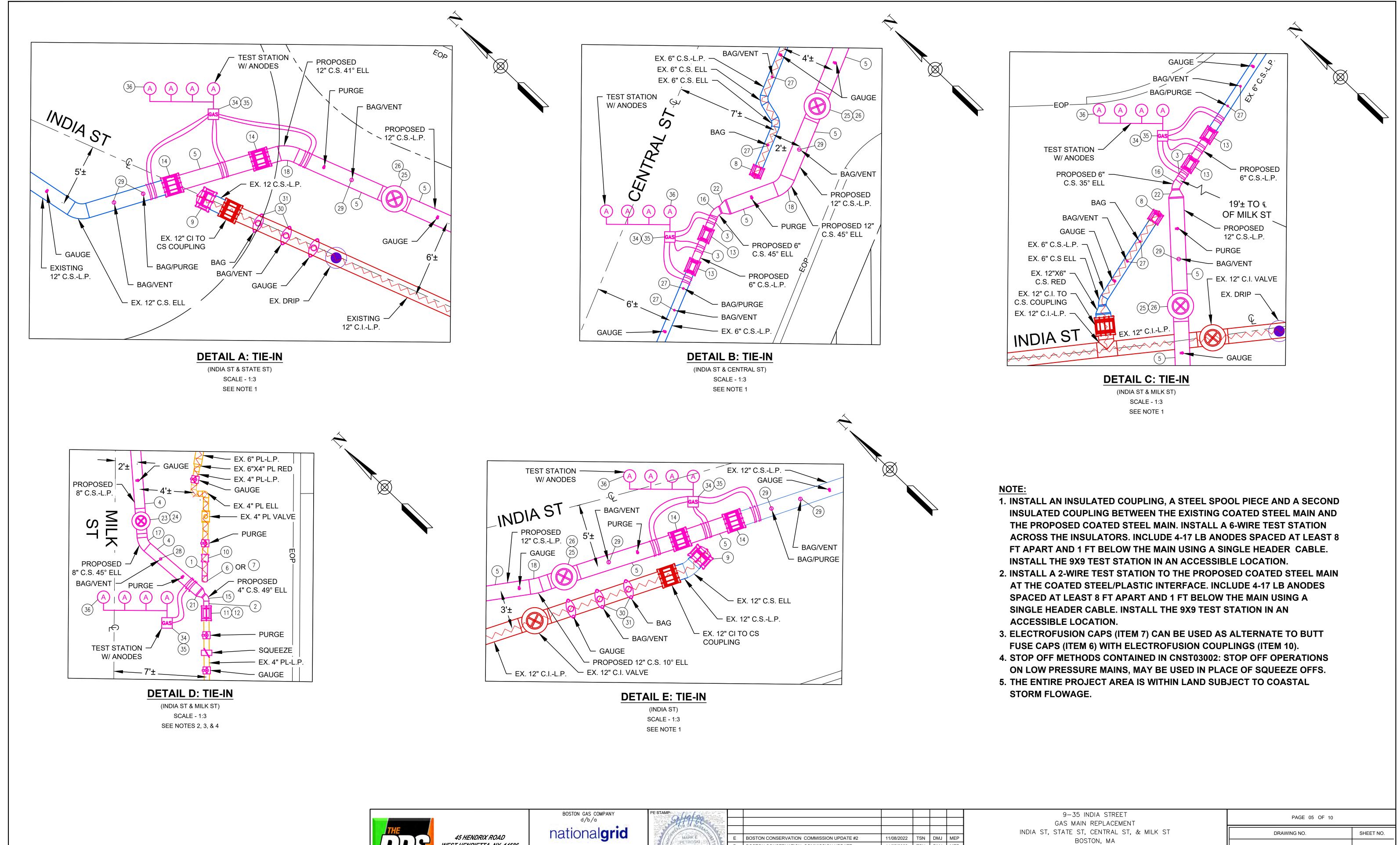
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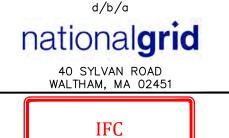
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PAGE 04 OF 10	
DRAWING NO.	SHEET NO.
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2	D	BOSTON CONSERVATION COMMISSION UPDATE	11/07/2022	TSN	DMJ	MEP	
i.	С	MBTA PROFILE VIEW UPDATE	09/27/2022	TSN	DMJ	MEP	
200	В	BOM UPDATE	09/20/2022	TSN	DMJ	MEP	
	Α	ISSUED FOR CONSTRUCTION	09/19/2022	TSN	DMJ	MEP	DWG SIZE
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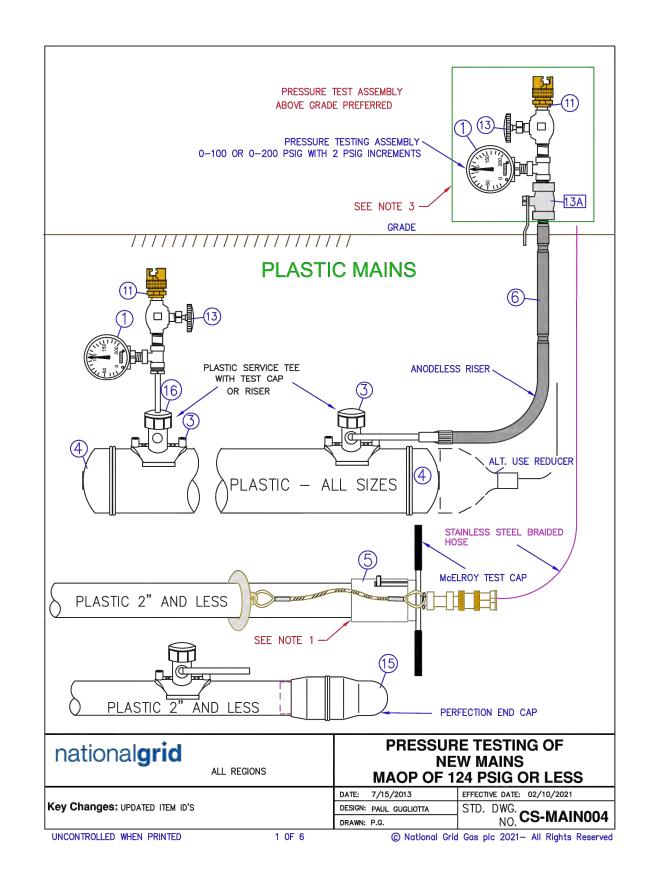
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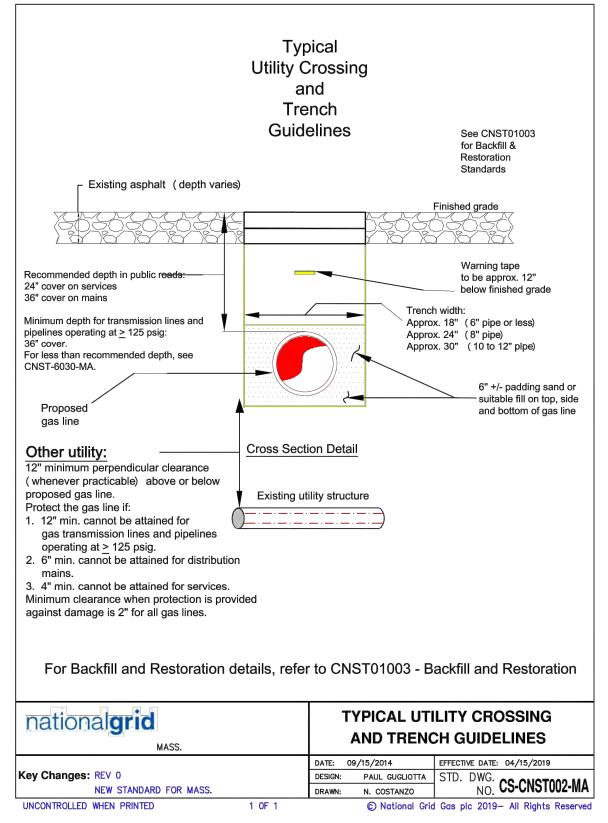
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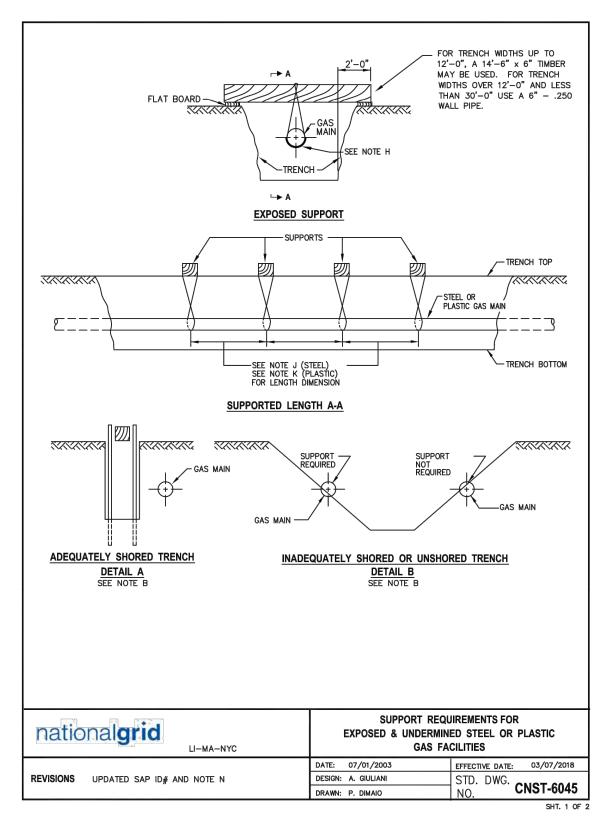
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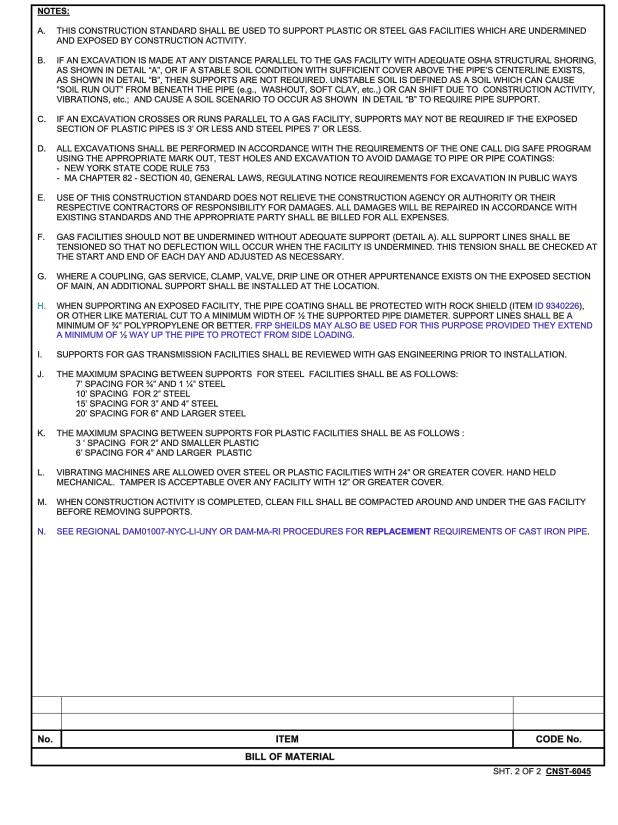
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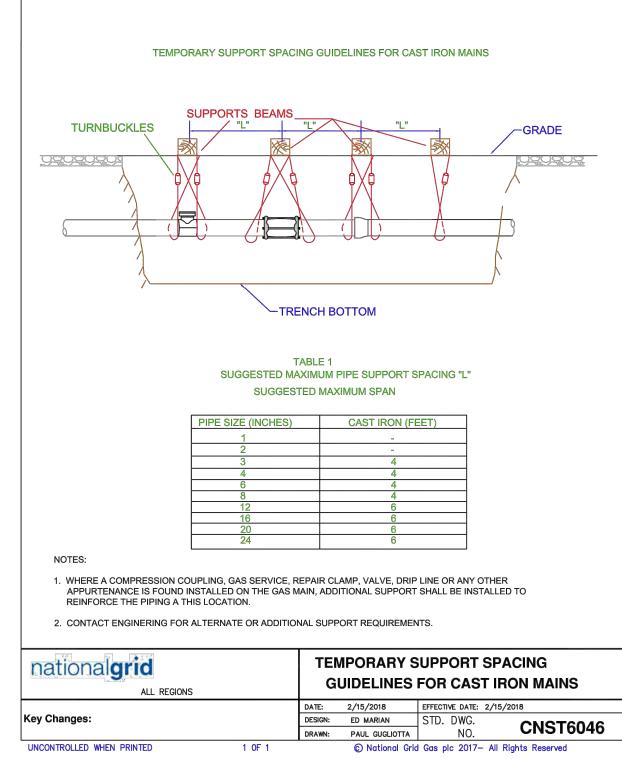
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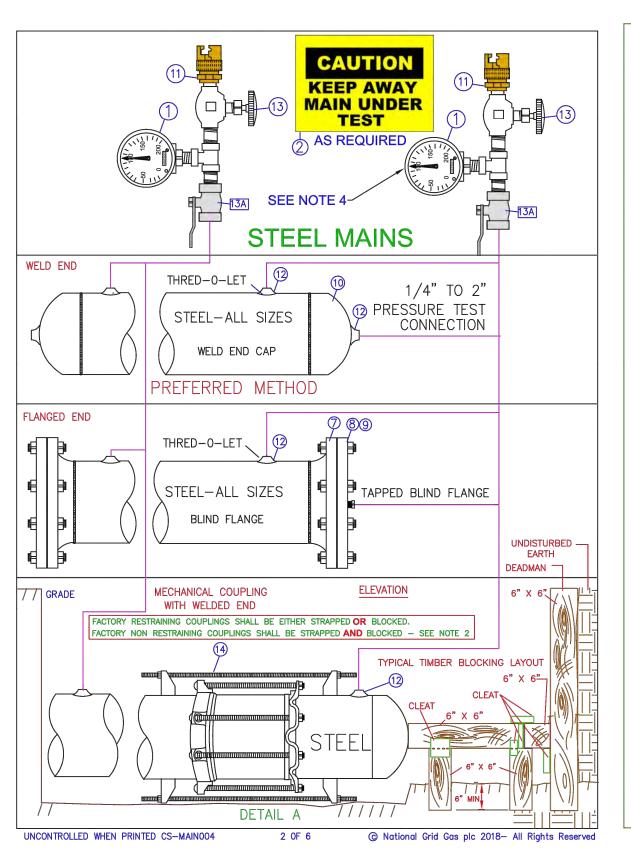


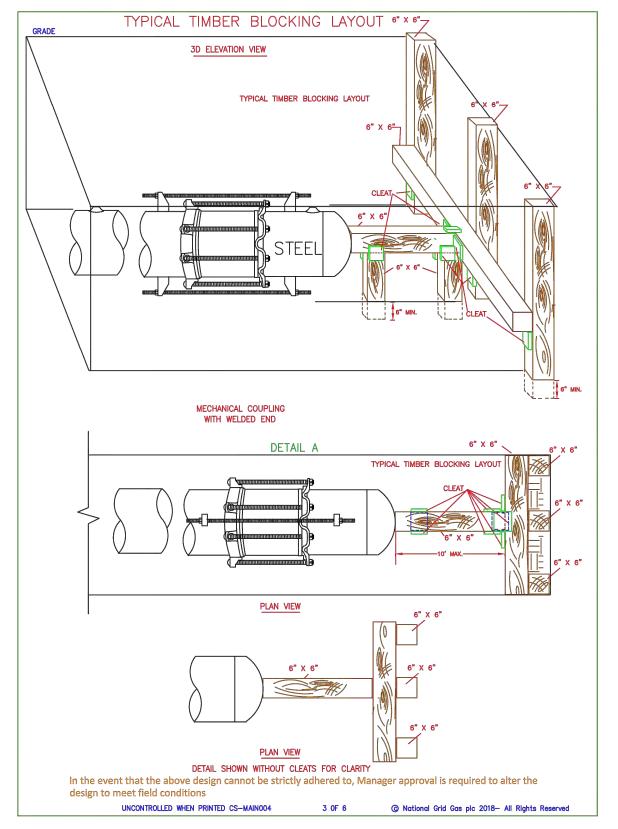


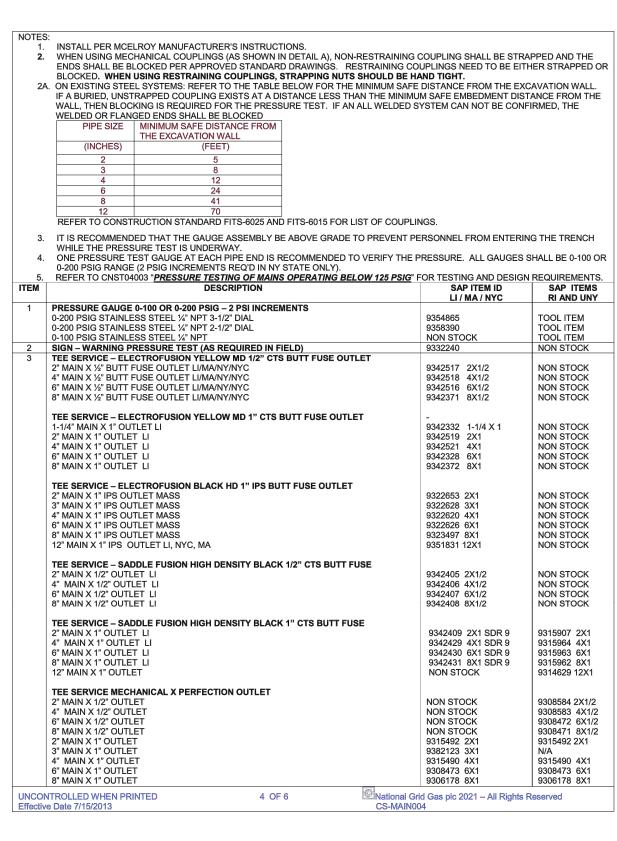


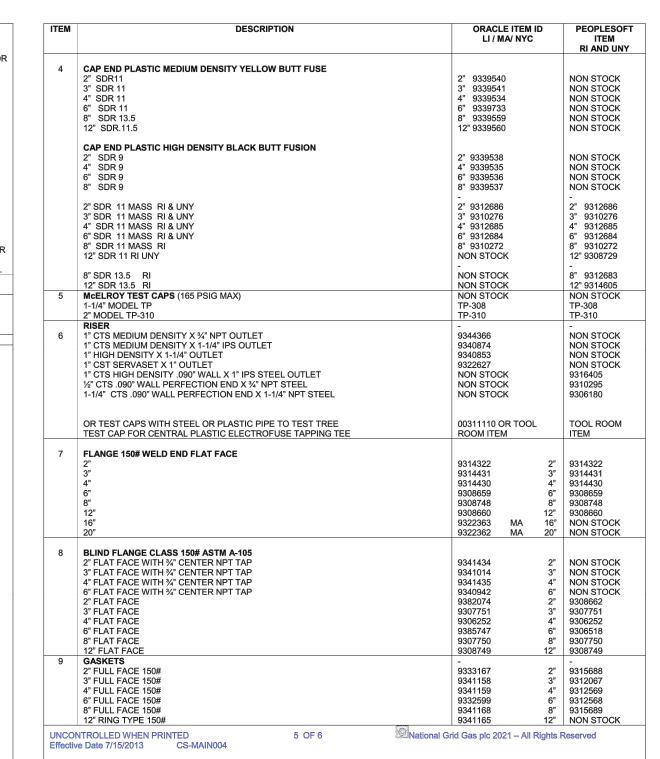












ITEM	DESCRIPTION	ORACLE ITEM ID LI / MA / NYC	PEOPLESOFT ITEM RI AND UNY
10	END CAPS – STEEL WELD END STANDARD WALL –GRADE B		
.0	2" 3" 4" 6" 8" 10" 12" 16"	9312095 2" 9308719 3" 9312096 4" 9312094 6" 9312093 8" 9315182 10" 9312092 12" 9314824 16" 9339687 20"	9312095 9308719 9312096 9312094 9312093 9315182 9312092 9314824 9314823
11	THOR FITTING	-	-
.,	1/2" MALE NPT X HOSE CONNECTION 3/4" FEMLAE X HOSE CONNECTION	00504089 00504301	NON STOCK NON STOCK
12	THRED-O-LET 12" - 6" X ¾" 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 ¾" 3000# PER ASTM A-105 GRADE B 36"-14" X ¾" 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 10-6X 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 FOR SADDLE FUSION TEE – CENTRAL PLASTICS 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)	9325109 9325017 9341368 9384268 9384174 9323715 9382494 9381846 9339561	TOOL ROOM ITEM

*THE ENTIRE PROJECT AREA IS WITHIN LAND SUBJECT TO COASTAL STORM FLOWAGE

W.O. NO.:

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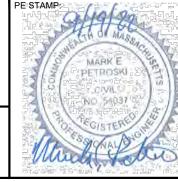
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Е	BOSTON CONSERVATION COMMISSION UPDATE #2	11/08/2022	TSN	DMJ	MEP	1
D	BOSTON CONSERVATION COMMISSION UPDATE	11/07/2022	TSN	DMJ	MEP	1
С	MBTA PROFILE VIEW UPDATE	09/27/2022	TSN	DMJ	MEP	I
В	BOM UPDATE	09/20/2022	TSN	DMJ	MEP	I
Α	ISSUED FOR CONSTRUCTION	09/19/2022	TSN	DMJ	MEP	DWG SIZE
NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY	22"X34"
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9-35 INDIA STREET
GAS MAIN REPLACEMENT
INDIA ST, STATE ST, CENTRAL ST, & MILK ST
BOSTON, MA

STANDARD DETAILS

ENGINEER

T. NOSAR

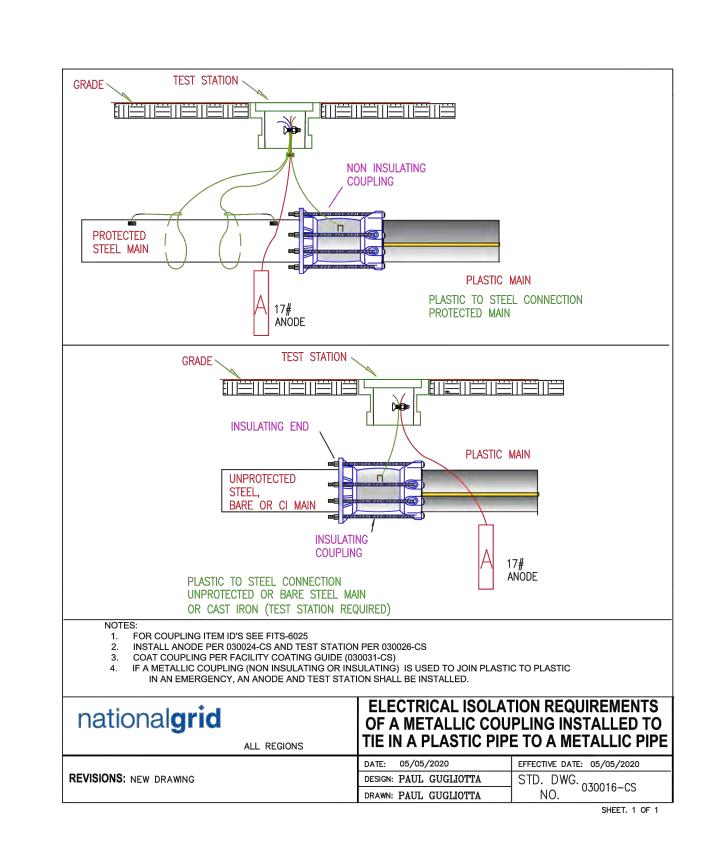
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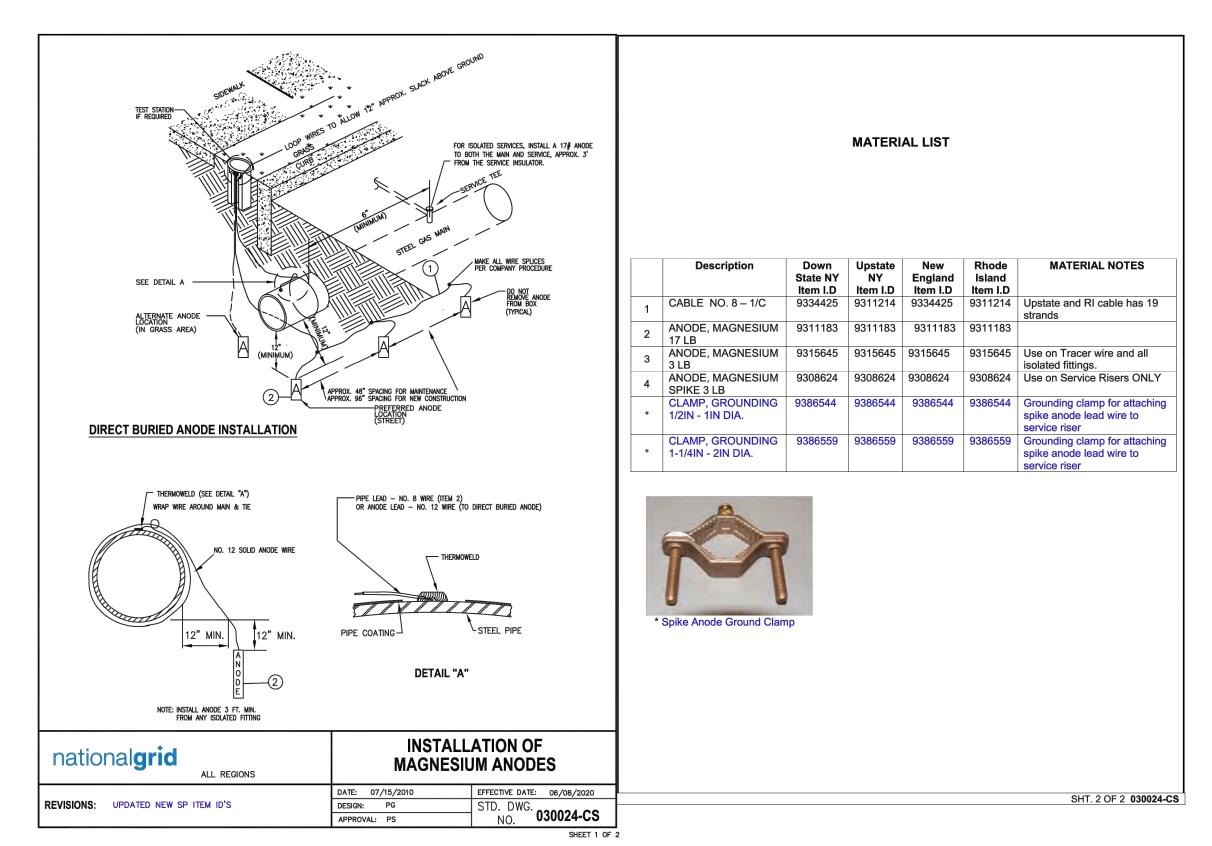
DDS COMPANIES

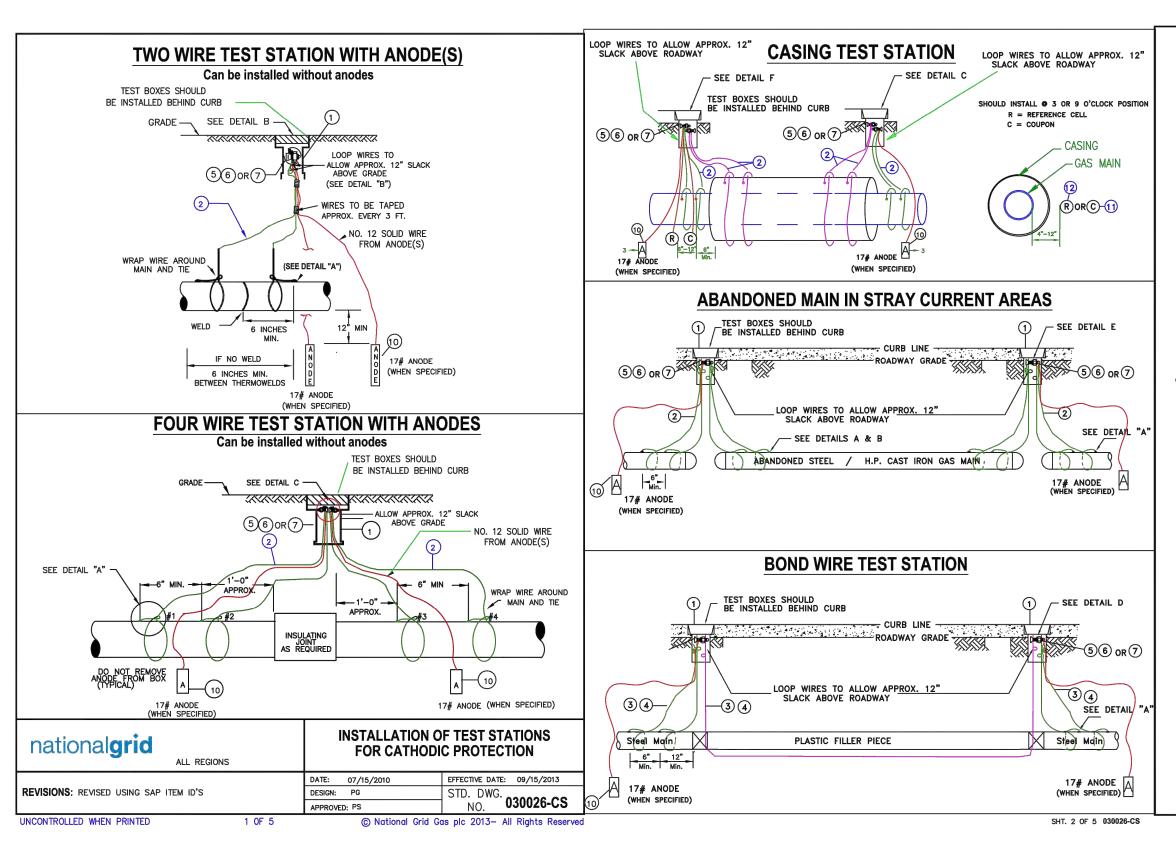
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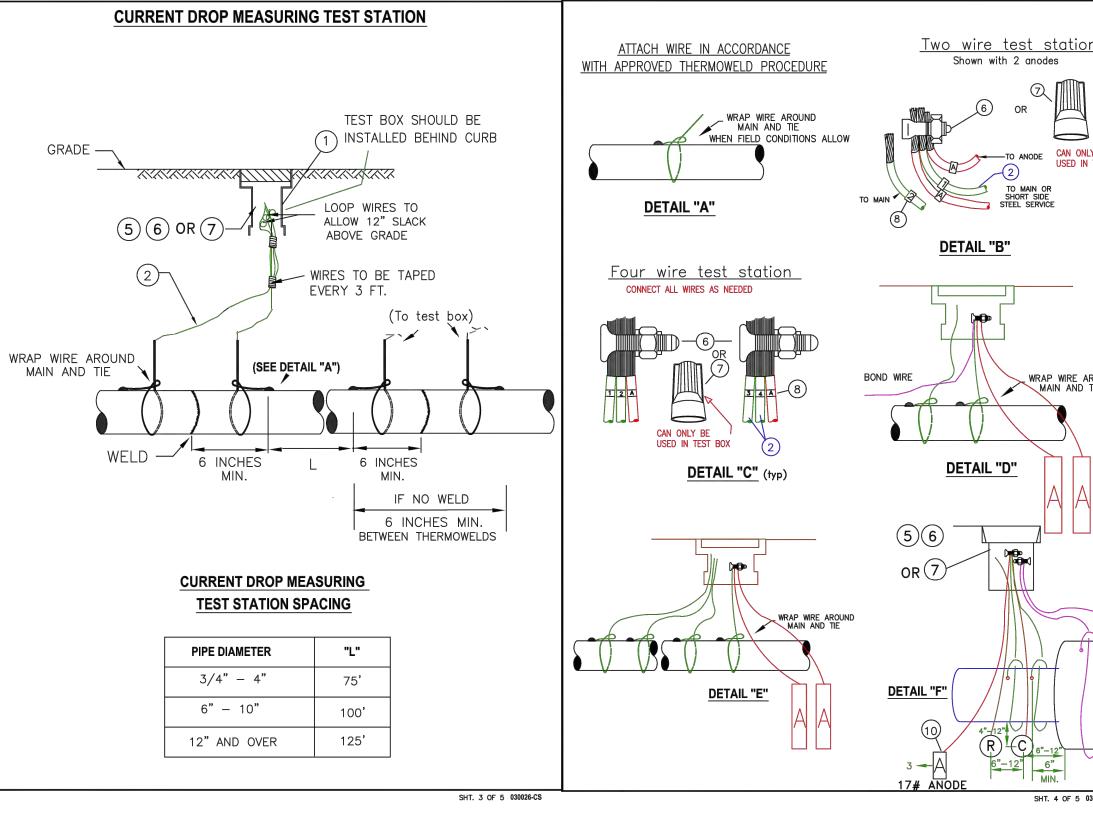
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DRAWING NO.	SHEET NO
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			MATERI	AL LIST		
	Description	Down State SAP Item I.D	Upstate SAP Item I.D	New England SAP Item I.D	Rhode Island SAP Item I.D	MATERIAL NOTES
1	TEST BOX WITH COVER	9339892	9312291 UPSTATE BOXES COME IN ONE	9339892	(Sm - 445) 9311209 or (Lg - 556) in Prov. 9311208	NON LOCKING COVER. DISCARD FOOT PIECE.
	TEST BOX 9" SQUARE HEAVY DUTY	9339391	PIECE	9339391		WEIGHS 95 LBS, STREET USE, WITHOUT COVER
	COVER FOR 9" SQUARE BOX	9339797		9339797		NON-LOCKING COVER
2	WIRE, NO. 8, 7 STRAND	9307539	9307539	9307539	9307539	TEST WIRE ONLY, NOT FOR GROUND BEDS, UPSTATE AND RI WIRE HAS 19 STRANDS.
3	WIRE, NO. 6, 7 STRAND	9311795	9311795	9311795	9311795	BOND WIRE ONLY, NOT FOR GROUND BEDS
4	WIRE 1/0 – 19 STRAND 600 V –1/C	9334171	NON STOCK	9334171	NON STOCK	USE IN STRAY CURRENT AREAS
5	TAPE, PVC - ¾" WIDE	9334056	9316070	9334056	9316070	NOT FOR PIPE COATING.
6	CONNECTOR, SPLIT	9331578	9316630	9331578	NON STOCK	USE WITH NO. 6 CABLE USE WITH 1/0 CABLE
	CONNECTOR, SPLIT BOLT, TYPE 1/01	9331612		9331612		OSE WITH 1/0 CABLE
7	CONNECTOR, TWIST-ON WIRE NUT	9330683	9314631	9330683	9314631	
8	TAG, ADHESIVE	0207040	0207040	0207040	0207040	LABEL WITH #1 (N) OR (E),
	NUMBER 1 NUMBER 2	9307918 9307896	9307918 9307896	9307918 9307896	9307918 9307896	CONSECUTIVELY TO (S) OF (W)
	NUMBER 3	9307895	9307895	9307895	9307895	SEE DETAILS "B" AND "C"
	NUMBER 4	9307894	9307894	9307894	9307894	
	LETTER A	9307893	9307893	9307893	9307893	USE TO LABEL ANODES
9	GROUNDING CELL	NON	9315642	NON	NON	AS SPECIFIED BY
40	ANIODE	STOCK	0044400	STOCK	STOCK	CORROSION ENGINEERING
10	ANODE, MAGNESIUM 17LBS	9311183	9311183	9311183	9311183	SATURATE WITH WATER BEFORE BACKFILL. ANODE MAY BE INSTALLED VERTICALLY OR HORIZONTALLY.
11	COUPON	9386100	By Corrosion	9386100	By Corrosion	MC MILLER OR EQUAL
	REFERENCE CELL	9385758	By Corrosion	9385758	By Corrosion	BORIN MFGR INC OR EQUAL

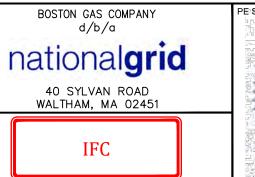
*THE ENTIRE PROJECT AREA IS WITHIN LAND SUBJECT TO COASTAL STORM FLOWAGE

NOTE:

1. CATHODIC PROTECTION DETAILS ARE NOT COVERED UNDER PE STAMP.



45 HENDRIX ROAD WEST HENRIETTA, NY 14586 PHONE (585) 359-7540 FAX (585) 359-7541



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С	MBTA PROFILE VIEW UPDATE	09/27/2022	TSN	DMJ	MEP	
В	BOM UPDATE	09/20/2022	TSN	DMJ	MEP	
Α	ISSUED FOR CONSTRUCTION	09/19/2022	TSN	DMJ	MEP	DWG SIZE
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NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY	22"X34"

9-35 INDIA STREET						
GAS MAIN REPLACEMENT						
INDIA ST, STATE ST, CENTRAL ST, & MILK ST						
BOSTON, MA						
STANDARD DETAILS						

ENGINEER

T. NOSAR

DESIGNER

DDS COMPANIES

DATE:

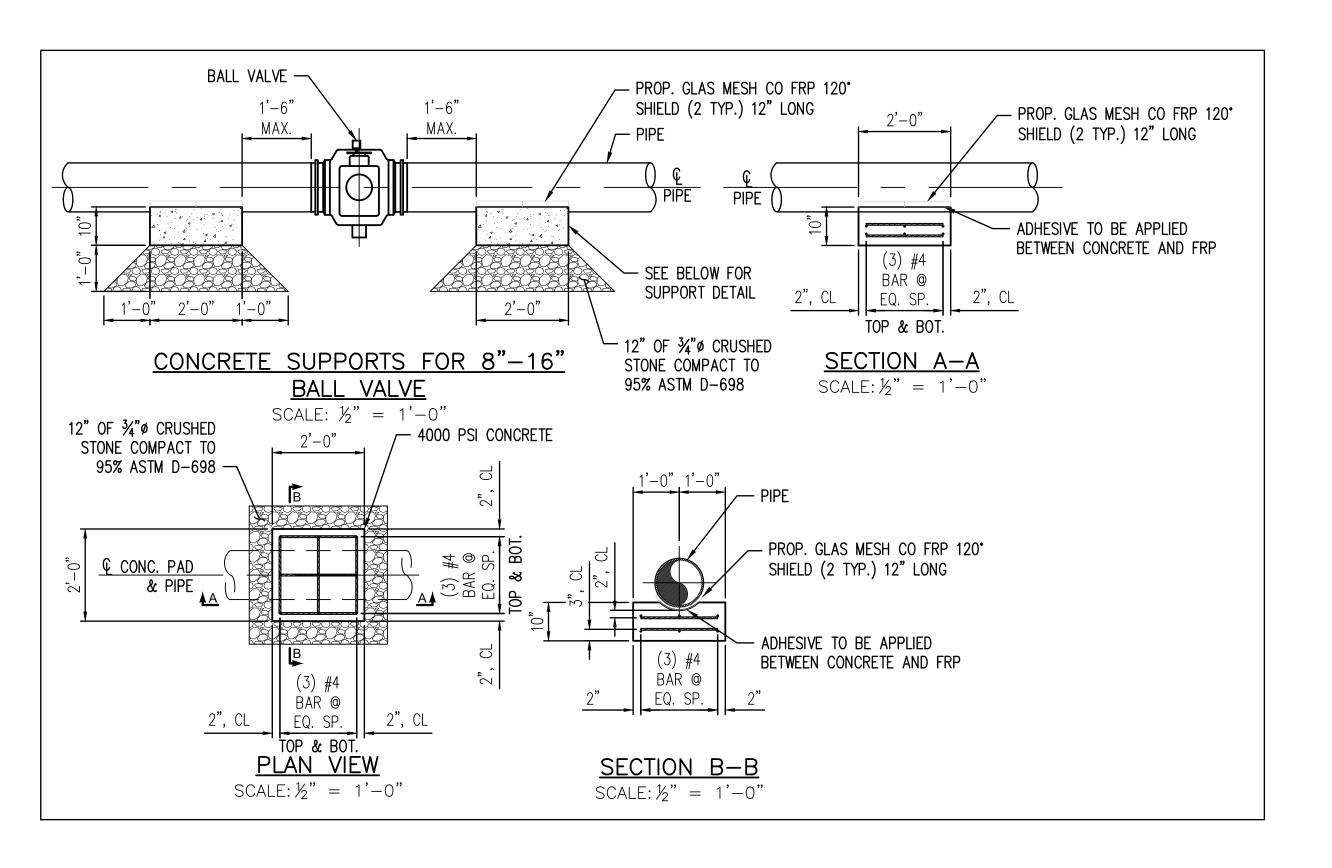
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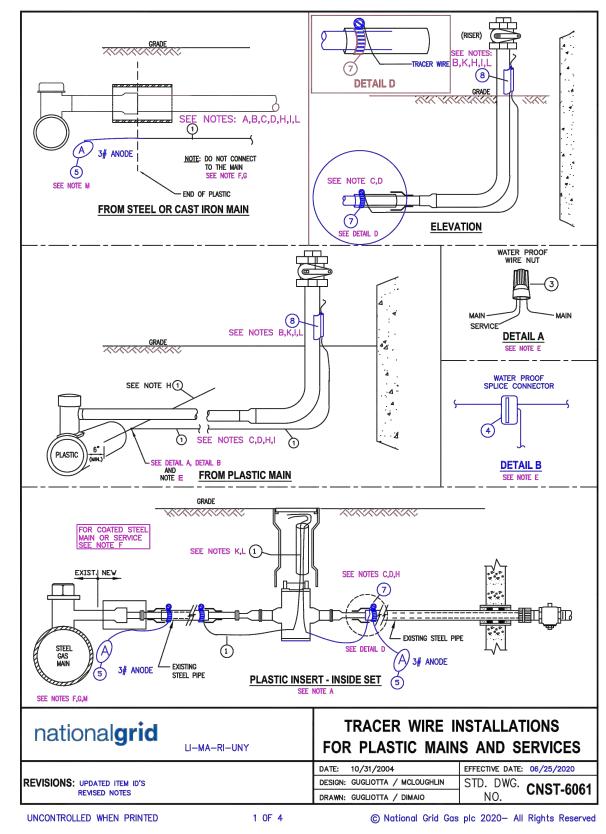
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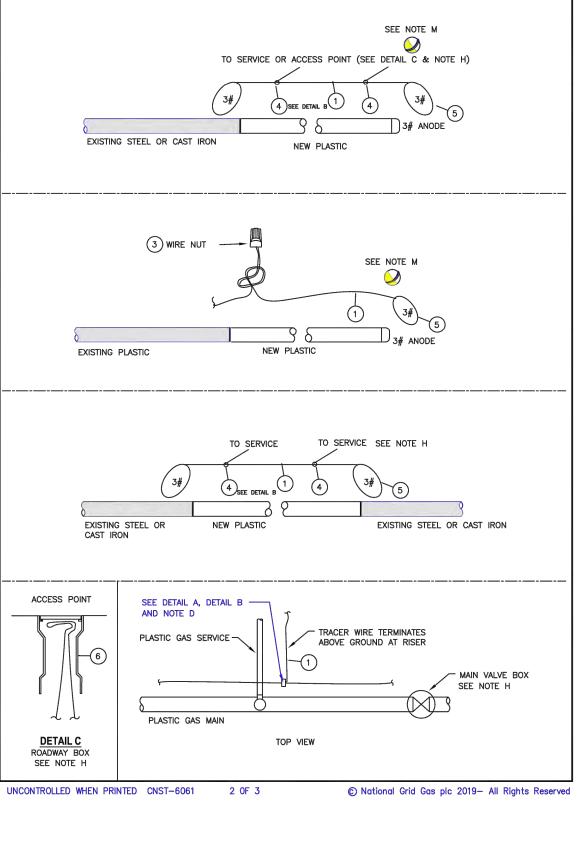
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	DRAWING NO.	SHEET NO.
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W.O. NO.:		
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LI/NYC/ MASS UNY/RI 9386134 9386134 TRACER WIRE SNAP, 2" (represents steel size) 9386156 TRACER WIRE SNAP, 1 1/2" (represents steel size) 9386156 9386150 TRACER WIRE SNAP, 1" (represents steel size) 9386150 9385568 TRACER WIRE SNAP, 3/4" (represents steel size) CLAMP, STAINLESS 9331708 9312344 UNY VALVE BOX, ROADWAY 9339890 ANODE, 3 LB MAGNESIUM WIRE SPLICE CONNECTOR, WATERPROOF 9308036 9308036 WIRE NUT, PLASTIC, WATERPROOF 9331644 9314631 WIRE, DIRECTIONAL DRILL, STAINLESS, STRANDED 10 AWG 9314187 9314187 TRACER WIRE, DIRECT BURY, COPPER, 12 AWG 9315005 9315005 SAP ITEM ID BILL OF MATERIAL

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 <u>Installation of Test Stations for</u> <u>Cathodic Protection [030026-CS]</u> and <u>Installation of Test Stations for Cathodic Protection [COR04003]</u> 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 <u>Installation of Test Stations for Cathodic Protection [030026-CS]</u>.

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 Installation of Test Stations for Cathodic Protection [030026-CS] and Installation of Test Stations for Cathodic Protection [COR04003] 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.

© National Grid Gas plc 2019– All Rights Reserved 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

Effective Date 06/25/2020

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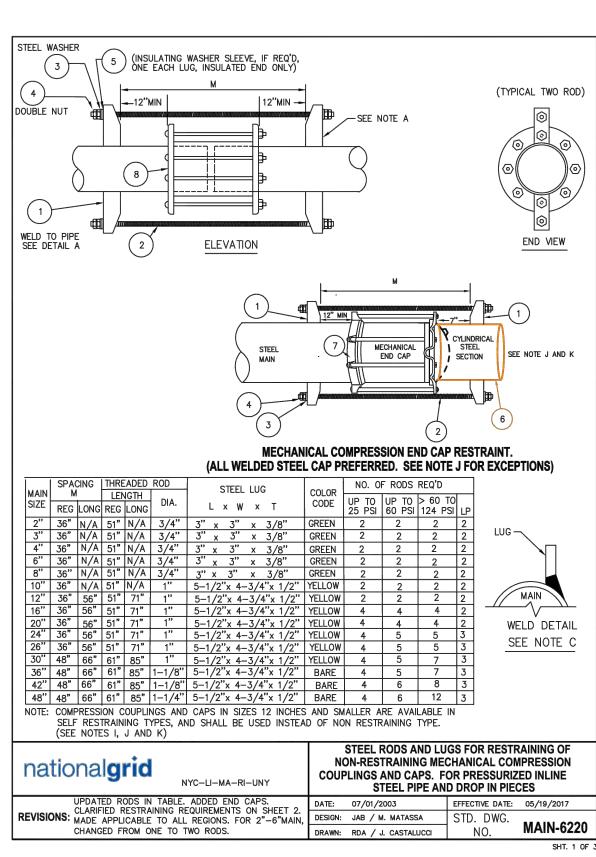
CONCRETE NOTES:

- SOIL CONDITIONS SHOULD BE VERIFIED SUITABLE BY QUALIFIED INDIVIDUAL. SHOULD POOR SOIL CONDITIONS EXIST CONTACT PE&D FOR ALTERNATE VALVE SUPPORT DESIGN.
- CONCRETE SHALL BE CURED IN ACCORDANCE WITH ACI 308. COLD WEATHER CURING PROVISIONS SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH ACI 306R.
- 3. MIX DESIGNS TO BE SUBMITTED FOR **REVIEW & APPROVAL.**
- REINFORCING ALL REBAR SHALL BE EPOXY COATED GRADE 60 BILLET STEEL IN

ACCORDANCE WITH ASTM A-615.

4. SIDES OF SUPPORTS SHALL BE FORMED.

- 6. ALL FORM WORK AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS AS WELL AS THE ACI
- 7. TOP OF CONCRETE SHALL BE SCREEDED LEVEL AND TRUE TO FINISH ELEVATION AND SHALL BE GIVEN A WOOD FLOAT FINISH WITH STEEL TOOLED EDGES.
- 8. ALL REINFORCING SHALL BE NEW BILLET STEEL GRADE 60 IN ACCORDANCE WITH ASTM A-615 WITH DEFORMATION CONFORMING TO ASTM A-305. 3" CLEAR COVER TO TOP AND BOTTOM BARS.
- 9. ALL BARS SHALL BE SECURELY HELD IN PROPER POSITION WHILE PLACING CONCRETE, ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED AS REQUIRED.
- 10. CONCRETE FINISH SHALL BE FREE OF HONEYCOMB, ROCK POCKETS AND UNEVEN SURFACES.
- 11. IF CONCRETE IS PLACED IN FIELD, GAS PIPE SHALL BE TEMPORARILY SUPPORTED BY WOOD CRIBBING OR A SUITABLE PIPE SUPPORT FOR 3 DAYS, MIN. TO ALLOW ENOUGH TIME FOR CONCRETE TO CURE.



	FOR LUG DESIGN SEE STANDARD DRAWING MAIN-6230.	
	ROD THREADS TO BE NATIONAL COARSE AND CONFORM TO ASTM A-193, GRADE B7. WELDING TO CONFORM TO WELDING POLICY - 030020-PL. HEAT ON COUPLING GASKET SHALL	L BE LIMITED TO
ח	DEGREES F WHEN WELDING ON LUGS FIELD COATING TO CONFORM TO COMPANY CORROSION SPECIFICATIONS.	
E.	MAKE UP ANCHORAGE NUTS WRENCH TIGHT.	
	A MINIMUM OF THREE PASSES ON EACH SIDE IS REQUIRED FOR ENTIRE LENGTH OF LUG-PIPE CON'INSTALL ANODES AND TEST STATION AS PER STANDARD DRAWING 030024-CS.	TACT.
н.	FOR PRESSURES UP TO 60 PSIG , PIPE SHALL BE WELDED. TWELVE 12 INCH DIAMETER AND SMALLE TYPE COUPLINGS CAN BE USED FOR TIE IN CONNECTIONS AS AN ALTERNATE TO WELDED CONNEC GAS READINGS PRESENT, FIELD PLANNING, ETC.). SELF RESTRAINING COUPLINGS DO NOT REQUIR THREADED ROD RESTRAINT. SIZES LARGER THAN 12 INCHES ARE COMMERCIALLY AVAILABLE IN NONLY AND MUST BE RESTRAINED WHEN USED. SEE FITS-6025 FOR LIST OF SELF RESTRAINING COUPLINGS.	TIONS (e.g., WHEN E FURTHER ON RESTRAINING
I.	FOR PRESSURE ABOVE 60 PSIG AND UP TO AND INCLUDING 124 PSIG , PIPE SHALL BE WELDED. WEI CONNECTIONS ARE <u>PREFERRED</u> . SELF RESTRAINING COUPLINGS UP TO 12 INCH DIAMETER MAY BE CONNECTIONS AS AN ALTERNATE TO WELDED CONNECTIONS (e.g., WHEN GAS READINGS PRESENT FIELD CONDITIONS, ETC.). SELF RESTRAINING COUPLINGS DO NOT REQUIRE FURTHER THREADED FOR SIZES LARGER THAN 12 INCHES ARE COMMERCIALLY AVAILABLE IN NON RESTRAINING ONLY AND MOWHEN USED. SEE FITS-6025 FOR LIST OF SELF RESTRAINING COUPLINGS AND FITS-6015 FOR LIST OF COUPLINGS.	E USED FOR TIE IN F, FIELD PLANNING ROD RESTRAINT. IUST BE RESTRAIN
J.	WELD STEEL END CAPS SHALL BE USED TO PERMANENTLY SEAL LIVE MAINS. IF A WELDED CAP CAP TO A FIELD CONDITION, THEN AN INVENTORY SELF RESTRAINING MECHANICAL LINE CAP, (FOR UP AND UP TO 60 PSIG) , CAN BE USED. SELF RESTRAINING CAPS DO NOT REQUIRE FURTHER RESTRAINFOR SELF RESTRAINING MECHANICAL CAPS.	TO 12 INCH DIAMET
K.	SIZES LARGER THAN 12 INCHES ARE COMMERCIALLY AVAILABLE IN NON RESTRAINING ONLY AND T RESTRAINED IF USED. FOR THE DIAMETERS LARGER THAN 12 INCH AND FOR PRESSURES UP TO 60 RESTRAINING MECHANICAL CAPS IF USED SHALL BE RESTRAINED IN THE FIELD AS SHOWN HEREIN NON-RESTRAINING MECHANICAL CAPS. WELDED STEEL END CAPS SHALL BE USED ON ALL PRESSU	PSIG , THE NON I. SEE FITS-6014 FC
L.	CYLINDRICAL PIPE PUP TO BE PLACED UP AGAINST MECHANICAL END CAP FOLLOWER RING AND SEPIPE USING THREADED ROD AND LUGS.	ECURED TO HOST
RE	STRAINING REQUIREMENTS	
H.P	. DESIGN	
	STRAIN ALL MECHANICAL NON SELF RESTRAINING COUPLINGS AND CAPS. STRAIN ALL MECHANICAL NON SELF RESTRAINING COUPLINGS IF USED ON STRAIGHT PIPE LENGTHS	S.
co	ON UNEARTHING AN EXISTING IN-SERVICE UNRESTRAINED COUPLING, ENSURE THAT THE PIPE OUPLING IS EMBEDDED IN THE EARTH BEFORE FULLY EXPOSING THE COUPLING TO PREVENT PRESTRAINED COUPLING IS ENCOUNTERED IN THE FIELD, ANCHORAGE LUGS AND THREADED RODS SERVICES.	PIPE PULL OUT. IF
<u>L.P</u>	DESIGN	
	STRAIN ALL MECHANICAL NON SELF RESTRAINING COUPLINGS AND CAPS. STRAIN ALL MECHANICAL NON SELF RESTRAINING COUPLINGS IF USED ON STRAIGHT PIPE LENGTHS	i.
No.		NGRID ID
	BILL OF MATERIAL	
	CONTROLLED WHEN PRINTED 2 OF 3 Sational Grid Gas plc 2017 – All I	Rights Reserved
	ective Date 05/19/2017	MAIN-6220

	BILL OF MATERIAL				
lo.	o. ITEM				
	NO FINISH (FOR 1-1/8" ROD) NO FINISH (FOR 1-1/4" ROD)	9389887 9389931			
1	YELLOW (FOR 1" ROD)	9357904 9357905			
	LUG, STEEL GREEN (FOR 3/4" ROD)				
	1-1/4"	9328113			
2	1-1/8"	9328150 9328114			
	ROD, THREADED, 12FT. LENGTH (SEE TABLE ON SHEET 1 FOR LENGTH REQUIRED) SEE NOTE B 3/4" 1"	9328152 9328150			
	1-11-1	0000000			
•	1-1/8" 1-1/4"	9328206 9389889			
3	1"	9328207			
	WASHER, STEEL 3/4"	9328236			
	1-1/4" - 8	9328632			
7	1-1/8" - 8	9389930			
4	NUT, HEX ALLOY STEEL (DIA. X THREADS PER INCH) 3/4" - 10 1" - 8	9328587 9328589			
	AND THEY ALLOW OTHER VOICE AND DED INCOM	0000507			
	1-1/4"	9390808			
5	1-1/8"	9390817			
	1"	9342398 9342397			
_	INSULATOR 3/4"				
6	CYLINDRICAL STEEL PIPE PUP, O.D. TO BE THE SAME AS NOMINAL COUPLING DIAMETER. (SEE NOTE K&L)	N/A			
7	MECHANICAL END CAP (SEE FITS-6014 AND FITS-6024)	N/A			
8	MECHANICAL COUPLING (SEE FITS-6025 AND FITS-6015)	N/A			

UNCONTROLLED WHEN PRINTED 3 OF 3 C National Grid Gas plc 2017 – All Rights Reserved Effective Date 05/19/2017

TSN DMJ MEP

TSN DMJ MEP

*THE ENTIRE PROJECT AREA IS WITHIN LAND SUBJECT TO COASTAL STORM FLOWAGE



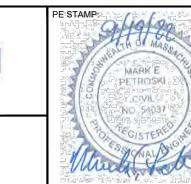
nationalgrid 45 HENDRIX ROAD WEST HENRIETTA, NY 14586 PHONE (585) 359-7540 FAX (585) 359-7541

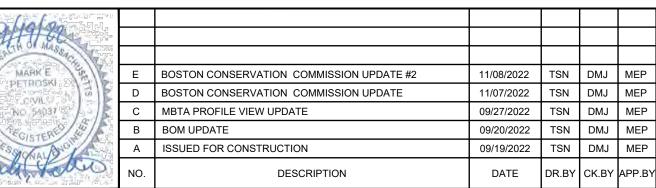
BOSTON GAS COMPANY

d/b/a

40 SYLVAN ROAD WALTHAM, MA 02451

IFC





9-35 INDIA STREET GAS MAIN REPLACEMENT INDIA ST, STATE ST, CENTRAL ST, & MILK ST BOSTON, MA

DESIGNER

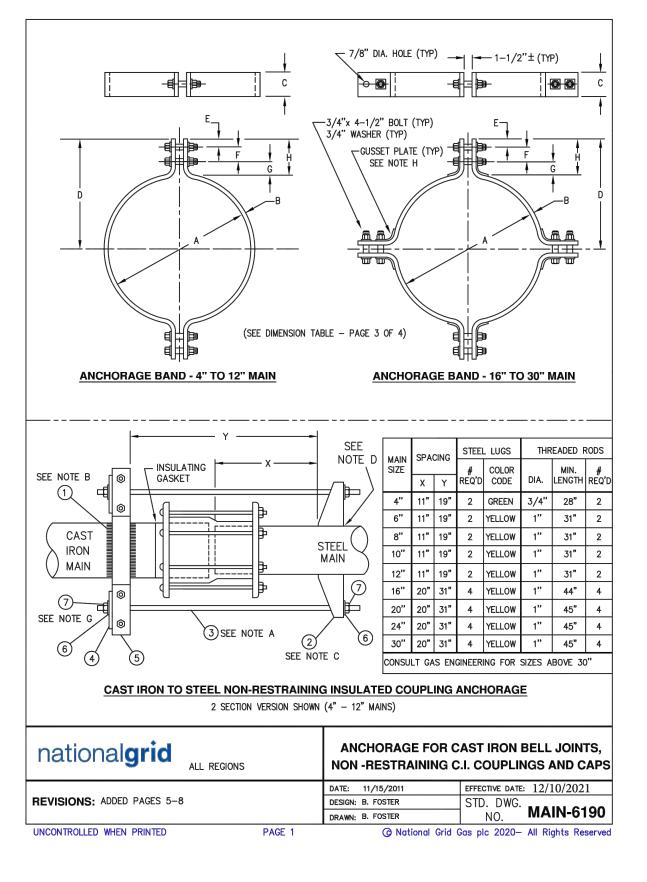
DDS COMPANIES

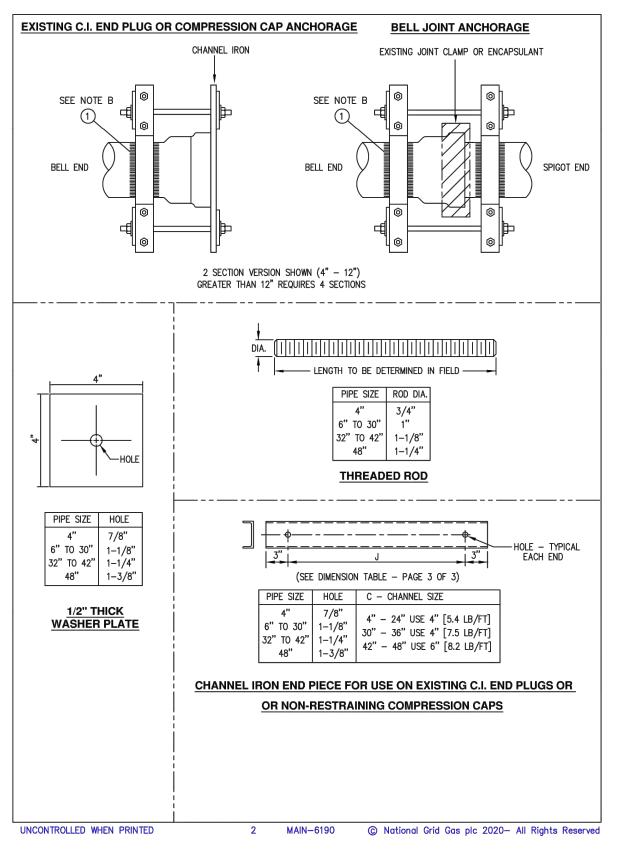
DWG SIZE

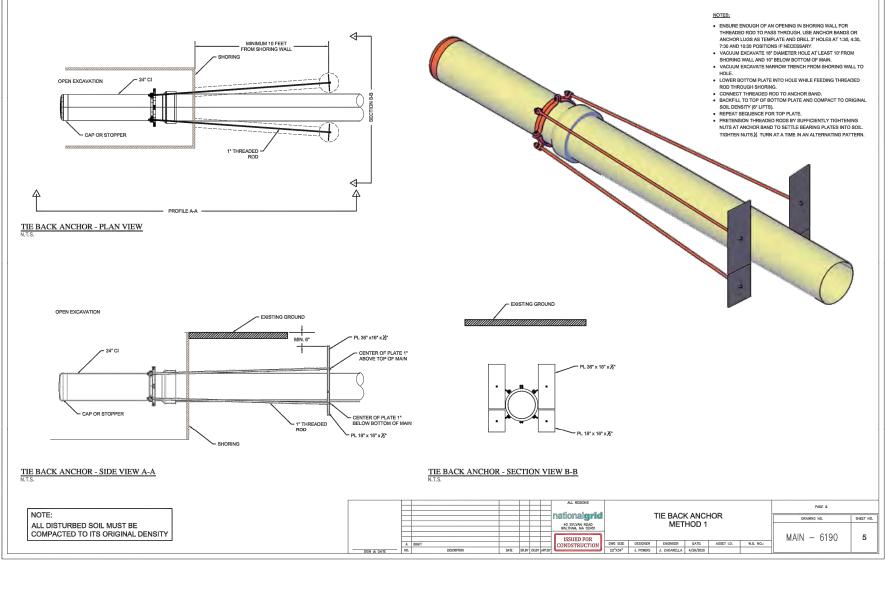
22"X34"

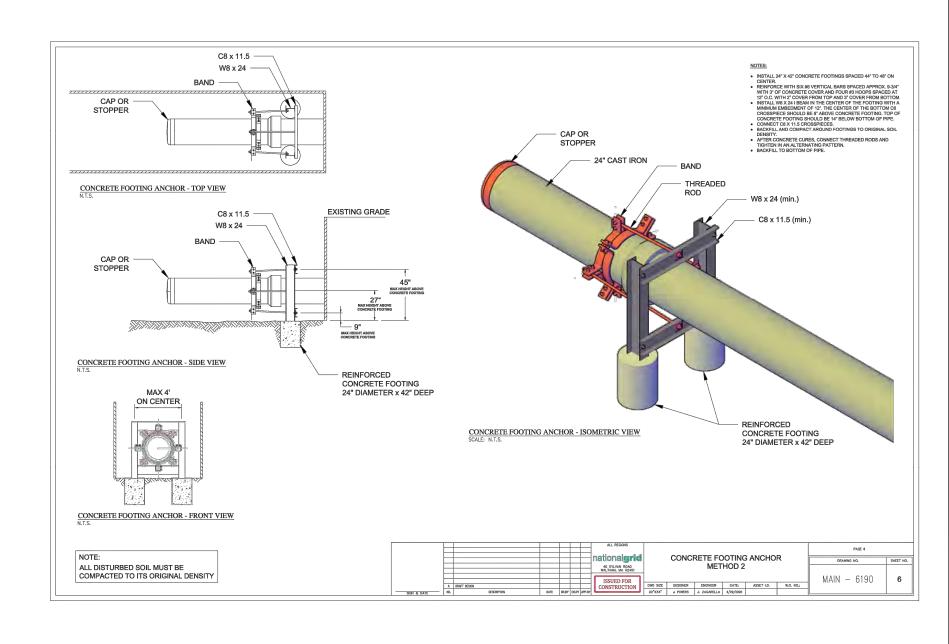
STANDARD DETAILS DATE: ASSET I.D. **ENGINEER** W.O. NO.: T. NOSAR 08/20/2022 XXXXXXX 1474472 DRAWING NO. SHEET NO. C-203 80

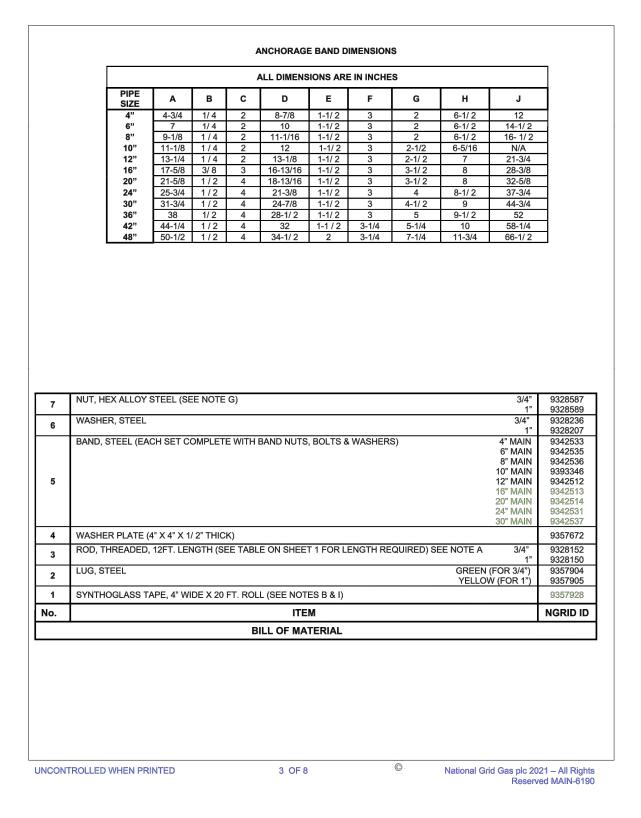
PAGE 08 OF 10

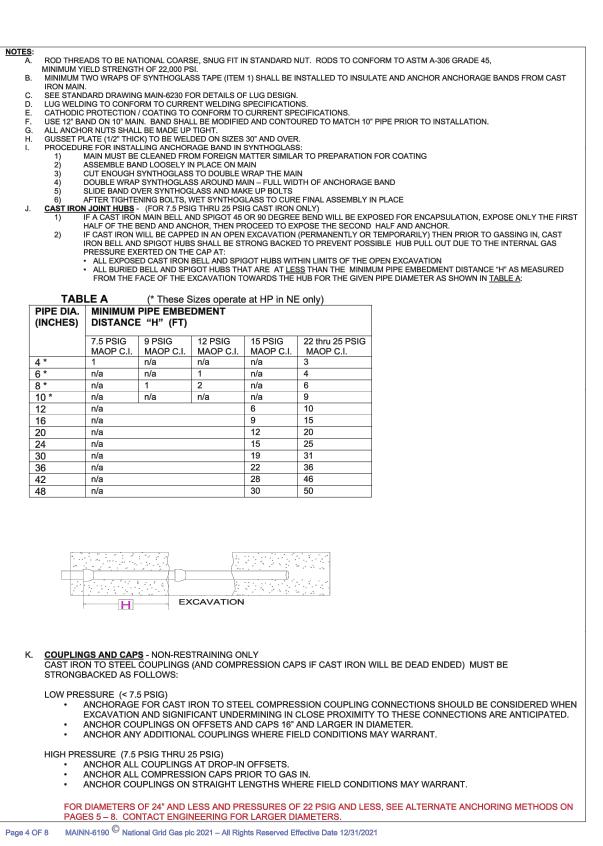


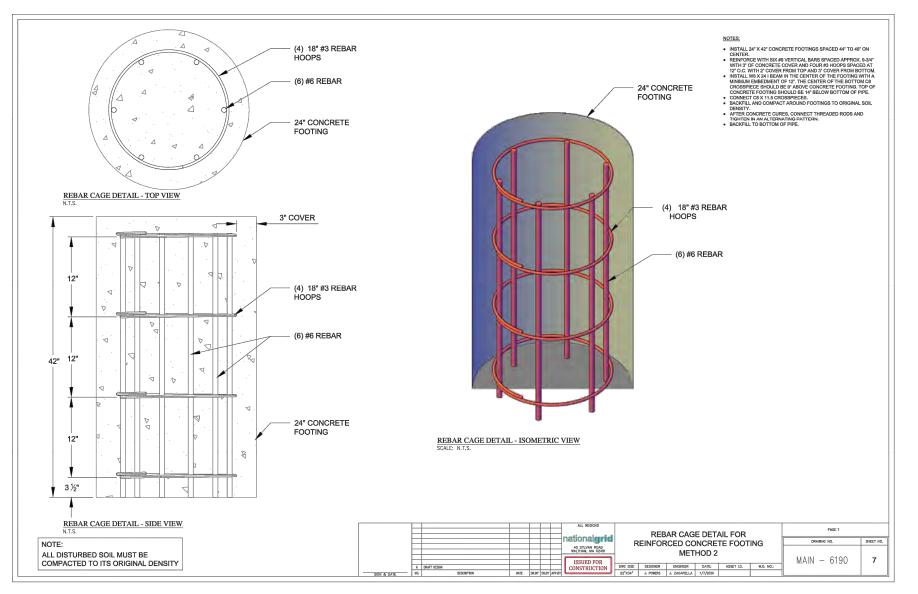


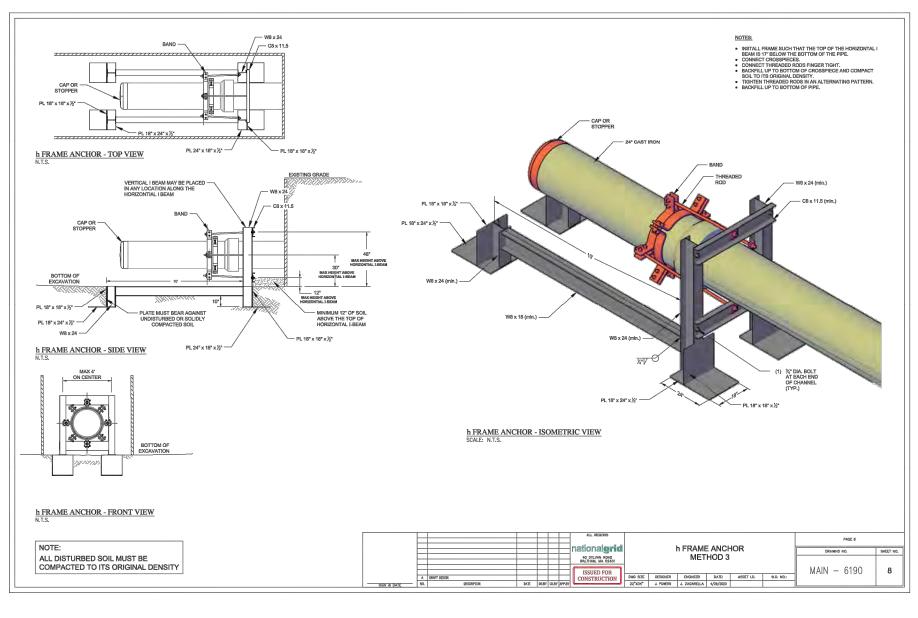








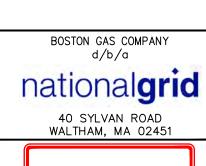


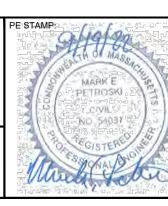


*THE ENTIRE PROJECT AREA IS WITHIN LAND SUBJECT TO COASTAL STORM FLOWAGE



45 HENDRIX ROAD VEST HENRIETTA, NY 14586 PHONE (585) 359-7540 FAX (585) 359-7541





Е	BOSTON CONSERVATION COMMISSION UPDATE #2	11/08/2022	TSN	DMJ	MEP	
D	BOSTON CONSERVATION COMMISSION UPDATE	11/07/2022	TSN	DMJ	MEP	
С	MBTA PROFILE VIEW UPDATE	09/27/2022	TSN	DMJ	MEP	
В	BOM UPDATE	09/20/2022	TSN	DMJ	MEP	
Α	ISSUED FOR CONSTRUCTION	09/19/2022	TSN	DMJ	MEP	DWG SIZE
NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY	22"X34"

9-35 INDIA STREET GAS MAIN REPLACEMENT INDIA ST, STAT

08/20/2022

XXXXXXX

T. NOSAR

DESIGNER

DDS COMPANIES

GAS MAIN	REPLACEME	NT			
		T, & MILK ST		DRAWING NO.	SHEET NO.
802	ΓΟΝ, ΜΑ				
STANDA	RD DET	AILS		C-204	09
ENGINEER DATE: ASSET I.D. W.O. NO.:			W.O. NO.:		
				11	1

1474472

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