

N-5068-082
March 5, 2021

Emily Sullivan
Arlington Conservation Commission
730 Mass Avenue Annex
Arlington, Massachusetts 02476

Re: **Notice of Exempt Gas Main Replacement
Boston Gas Company
Henderson Street, Cross Street, Sawin Street, Teel Street, Eliot Road,
Colonial Drive, & Decatur Street, Arlington, Massachusetts**

Dear Agent Sullivan and Members of the Arlington Conservation Commission:

Boston Gas Company respectfully submits this written notification of the intent to conduct exempt gas main replacements within Henderson Street, Cross Street, Sawin Street, Teel Street, Eliot Road, Colonial Drive, and Decatur Street in Arlington, Massachusetts. The proposed project consists of the replacement of existing gas mains within these existing roadways.

The proposed maintenance work is to occur within three discrete project areas. The streets within each project area where gas main replacement is proposed are listed below and a breakdown of the activities proposed is provided in the enclosed table. A total of 20,825 lf of gas main replacement is proposed over these three project areas.

Project Area 1:

- | | |
|--------------------|----------------|
| • Henderson Street | • Sawin Street |
| • Cross Street | • Teel Street |

Project Area 2:

- | | |
|------------------|--------------------|
| • Eliot Road | • Princeton Road |
| • Colonial Drive | • Cheswick Road |
| • Cabot Road | • Spy Pond Parkway |
| • Eliot Park | • Bay State Road |
| • Spy Pond Lane | • Pioneer Road |
| • Putnam Road | • Sheraton Park |

Project Area 3:

- Decatur Street

A portion of the work near 81 Henderson Street and Decatur Street is located within Bordering Land Subject to Flooding (BLSF), a portion of the work within Eliot Road near Spy Pond is within the 100-foot Buffer Zone; and a portion of the work within Decatur Street is within the 200-foot Riverfront Area. No impacts to wetland resources areas are anticipated as a result of this project, as all work will occur within the existing paved roadways. Best Management Practices (BMPs) will be implemented as needed. Attachment B of this submittal includes

details of standard erosion control measures that have been used in past projects of similar scope. Following the completion of construction activities, the areas will be restored in-kind.

Please note that the proposed work is considered to be exempt from the Massachusetts Wetlands Protection Act (WPA, M.G.L. c. 131 §40) in accordance with 310 CMR 10.02(2)(a)(2), as the work consists of *"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."* The proposed work is also exempt under Section 1-A of the Arlington Regulations for Wetlands Protection as it recognizes the exemptions provided under the WPA.

Please refer to the attached map for the project location. Should you have any questions regarding this notification or require any additional information, please do not hesitate to contact me at (978) 337-6988 or Amanda Houle, Senior Environmental Scientist with Tighe & Bond, at (508) 304-6354.

Thank you in advance for your attention to this matter.

Respectfully,



Drew Shelby
Sr. Environmental Scientist
National Grid
40 Sylvan Road, Waltham, MA 02451

Attachments:

- A – Site Location Map
- B – National Grid Best Management Practice Details

<\\tighebond.com\data\Data\Projects\N\N5068 National Grid 2020 L&P\082 - Eliot, Henderson, Decatur, Arlington\MNL\Arlington Maintenance Letter.docx>

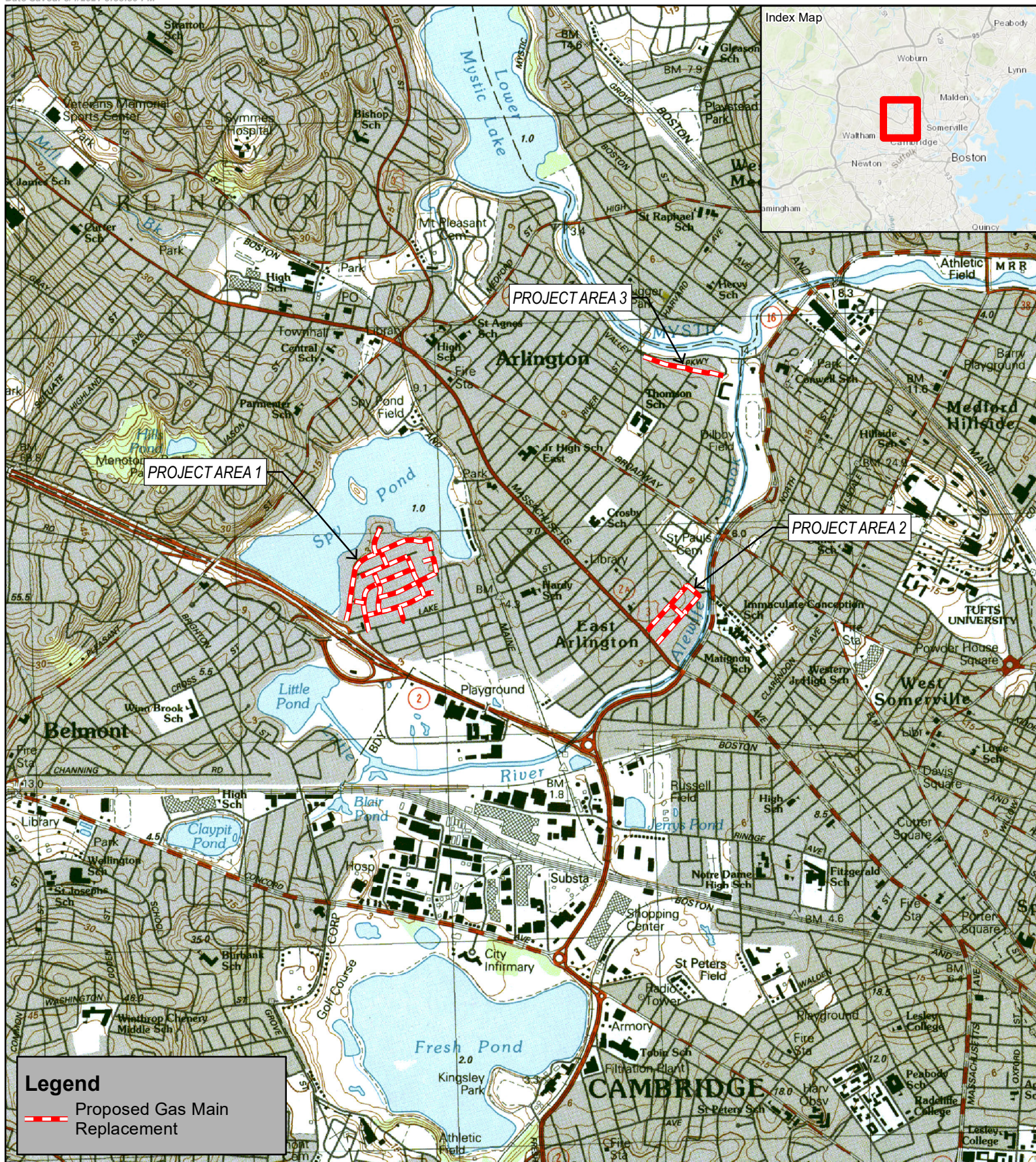
**Boston Gas Company
Exempt Gas Main Replacement
Arlington, Massachusetts**

Street	Gas Main Maintenance (linear feet)	Maintenance	Work within 100-foot Buffer Zone	Work within BLSF	Work within 200-foot Riverfront Area
Teel St., from Massachusetts Ave. to Cross St.	975 lf	Lining of existing 6-inch LP plastic	No	No	No
Cross St., from Henderson St. to Teel St.	275 lf	Lining of existing 6-inch LP plastic	No	No	No
Henderson St., from Massachusetts Ave. to Cross St.	1,025 lf	Lining of existing 6-inch LP plastic	No	Yes	No
Sawin St., from Henderson St. to Teel St.	275 lf	Lining of existing 6-inch LP plastic	No	No	No
Sheraton Pkwy., from Spy Pond Pkwy. to #29 Sheraton Pkwy.	445 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Spy Pond Pkwy., from #18 Spy Pond Pkwy. to Spy Pond Ln.	2,220 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Pioneer Rd., from Bay State Rd. to Spy Pond Pkwy.	240 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Bay State Rd., from #51 Bay State Rd. to #109 Bay State Rd.	985 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Cheswick Rd., from Eliot Rd. to Bay State Rd.	710 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Colonial Dr., from Eliot Rd. to Putnam Rd.	1,185 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Putnam Rd., from Eliot Rd. to Bay State Rd.	710 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Princeton Rd., from Cheswick Rd. to Spy Pond Ln.	1,015 lf	Lining of existing 4-inch 25 psig plastic	No	No	No

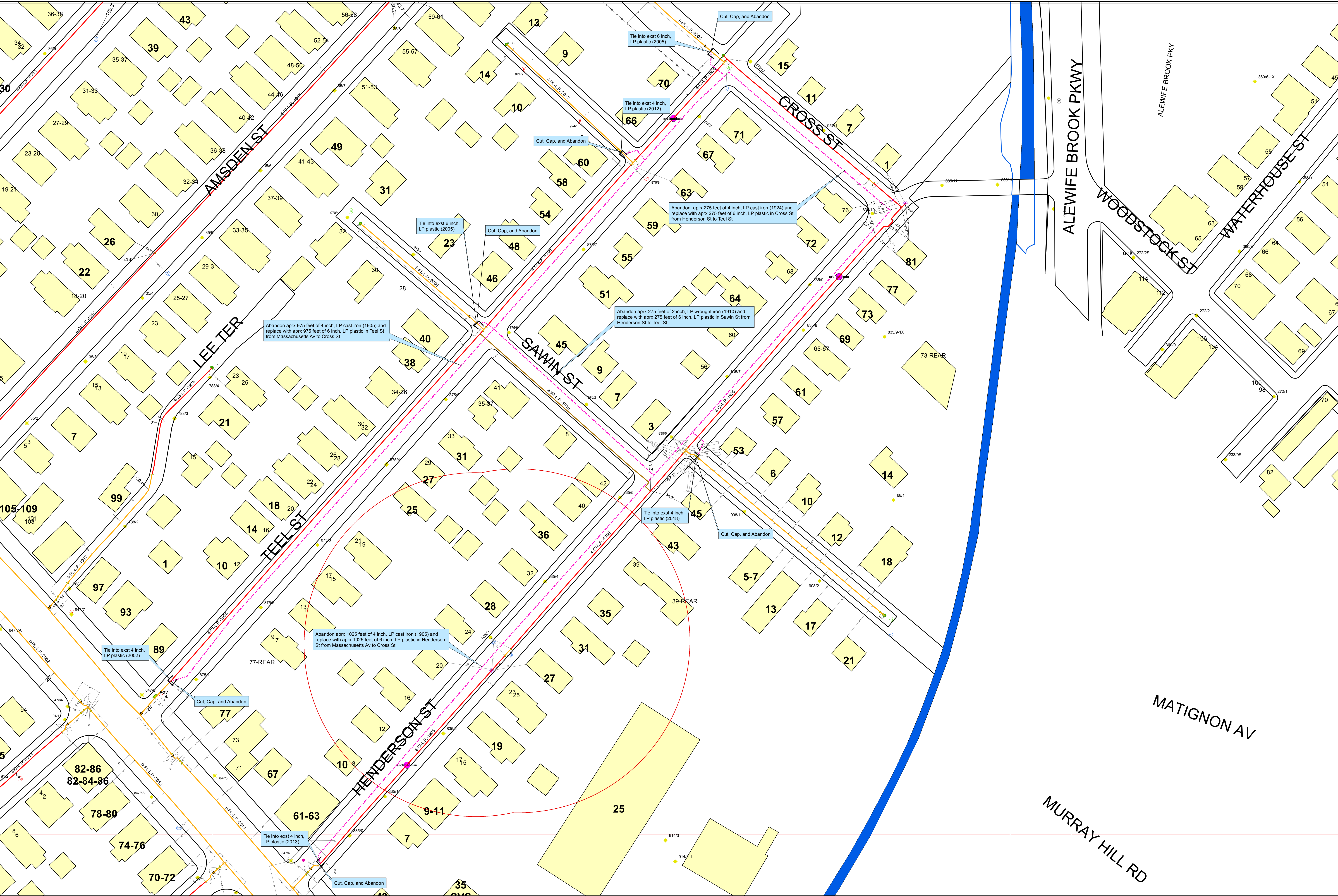
Garrison Rd., from Spy Pond Ln. to #14 Garrison Rd.	165 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Spy Pond Ln., from Princeton Rd. to Garrison Rd.	260 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Spy Pond Ln., from Spy Pond Pkwy. to #57 Spy Pond Ln.	170 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Bay State Rd., from #51 Bay State Rd. to #109 Bay State Rd.	985 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Spy Pond Pkwy., from #18 Spy Pond Pkwy. to Spy Pond Ln.	2,220 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Colonial Dr., from Eliot Rd. to Putnam Rd.	1,185 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Roanoke Rd., from Colonial Dr. to #5 Roanoke Rd.	165 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Eliot Rd., from Colonial Dr. to Eliot Pk.	995 lf	Lining of existing 4-inch 25 psig plastic	Yes	No	No
Cheswick Rd., from Eliot Rd. to Bay State Rd.	710 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Princeton Rd., from Cheswick Rd. to Spy Pond Ln.	1,015 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Spy Pond Ln., from Princeton Rd. to Garrison Rd.	260 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Putnam Rd., from Eliot Rd. to Bay State Rd.	710 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Eliot Pk., from Eliot Rd. to #71 Eliot Pk.	155 lf	Lining of existing 4-inch 25 psig plastic	No	No	No
Colonial Dr., from exst 8-inch 25 psig steel in Lake St. to Eliot Rd.	250 lf	Lining of existing 6-inch 25 psig plastic	No	No	No

Cabot Rd., from existing 8-inch 25 psig steel in Lake St. to Eliot Rd.	235 lf	Lining of existing 6-inch 25 psig plastic	No	No	No
Decatur St., from Mystic Valley Pkwy. to end	1,285 lf	Lining of existing 6-inch LP plastic	No	No	Yes

ATTACHMENT A



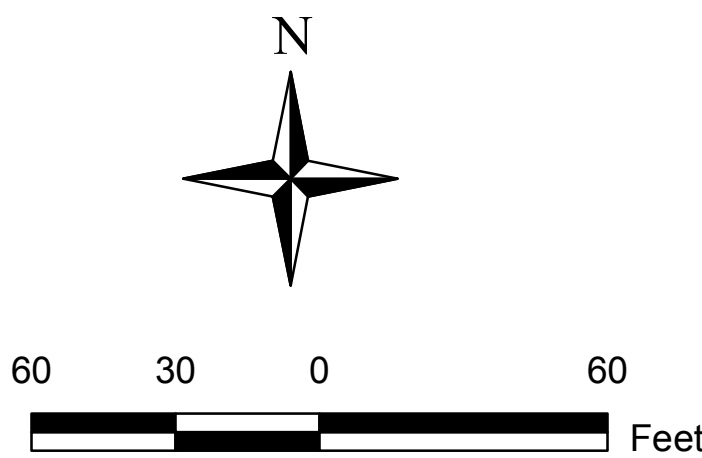
- PRESSURE GAUGES ARE REQUIRED AT ALL MAINS FOR ALL TIE-INS. REFER TO GCON-02001 PROCEDURE.
- CHECK ELECTRONIC MAPPING SYSTEM FOR MOST CURRENT MAPPING INFORMATION.



ENGINEERING DESIGN - Proposed Scope of Work

7-81 HENDERSON ST, ARL, 7-71 TEEL,SAWIN,CROSS ST

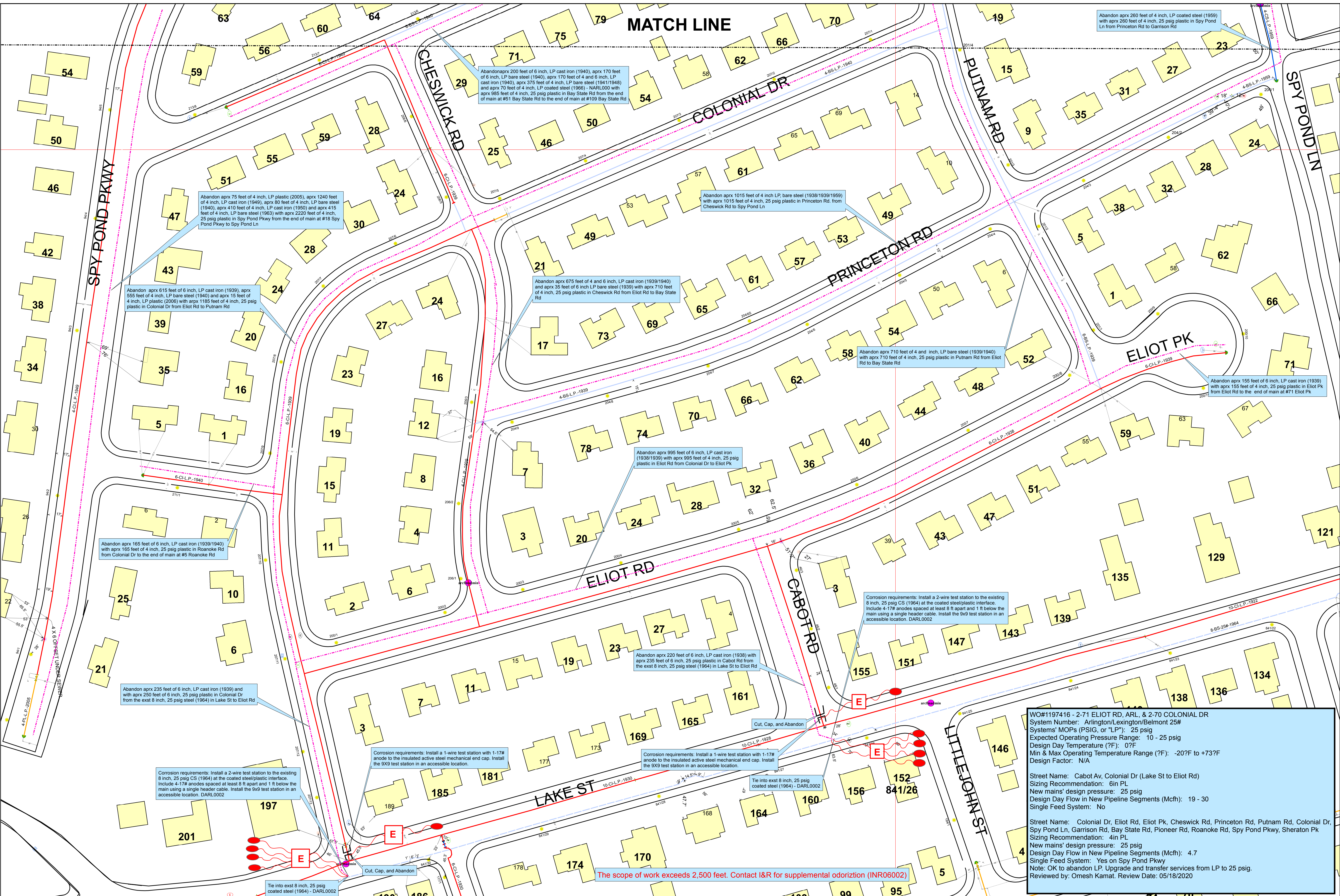
As part of the CIMNRPL<10 Program, Main and Service Replacement Recommends the relay of:
-> aprx 1025 feet of 4 inch, LP cast iron (1905) with aprx 1025 feet of 6 inch, LP plastic in Henderson St from Massachusetts Av to Cross St,
-> aprx 975 feet of 4 inch, LP cast iron (1905) with aprx 975 feet of 6 inch, LP plastic in Teel St from Massachusetts Av to Cross St,
-> aprx 275 feet of 2 inch, LP wrought iron (1910) with aprx 275 feet of 6 inch, LP plastic in Sawin St from Henderson St to Teel St, and
-> aprx 275 feet of 4 inch, LP cast iron (1924) with aprx 275 feet of 6 inch, LP plastic in Cross St. from Henderson St to Teel St.



NOTE: The location of surface and underground objects shown are not warranted to be correct.

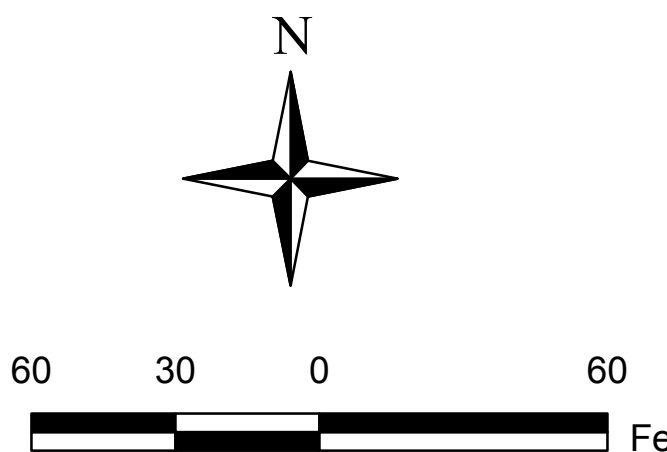
ENGINEER	GRLOGUE	SIZE	6 inch	ArcFM nationalgrid
DATE	7/14/2020	MATERIAL	PL	
LENGTH	2550 Feet	PRESSURE	LP	
SECTIONALS	ARLM1236 ARLM1237 ARLM1246	WORK ORDER #	1249975	

- PRESSURE GAUGES ARE REQUIRED AT ALL MAINS FOR ALL TIE-INS. REFER TO GCON-02001 PROCEDURE.
- CHECK ELECTRONIC MAPPING SYSTEM FOR MOST CURRENT MAPPING INFORMATION.



ENGINEERING DESIGN - Proposed Scope of Work

2-71 ELIOT RD, ARL, & 2-70 COLONIAL DR



NOTE: The location of surface and underground objects shown are not warranted to be correct.

ENGINEER	GRLOGUE	SIZE	4 & 6 inch	<div> <div>ArcFM</div> <div>nationalgrid</div> </div>
DATE	12/22/2020	MATERIAL	PL	
LENGTH	4" = 9420 Ft 6" = 485 Ft	PRESSURE	LP to 25 psig	
SECTIONALS	ARLM1223 ARLM1224	WORK ORDER #	1197416	
	ARLM1233 ARLM1234			

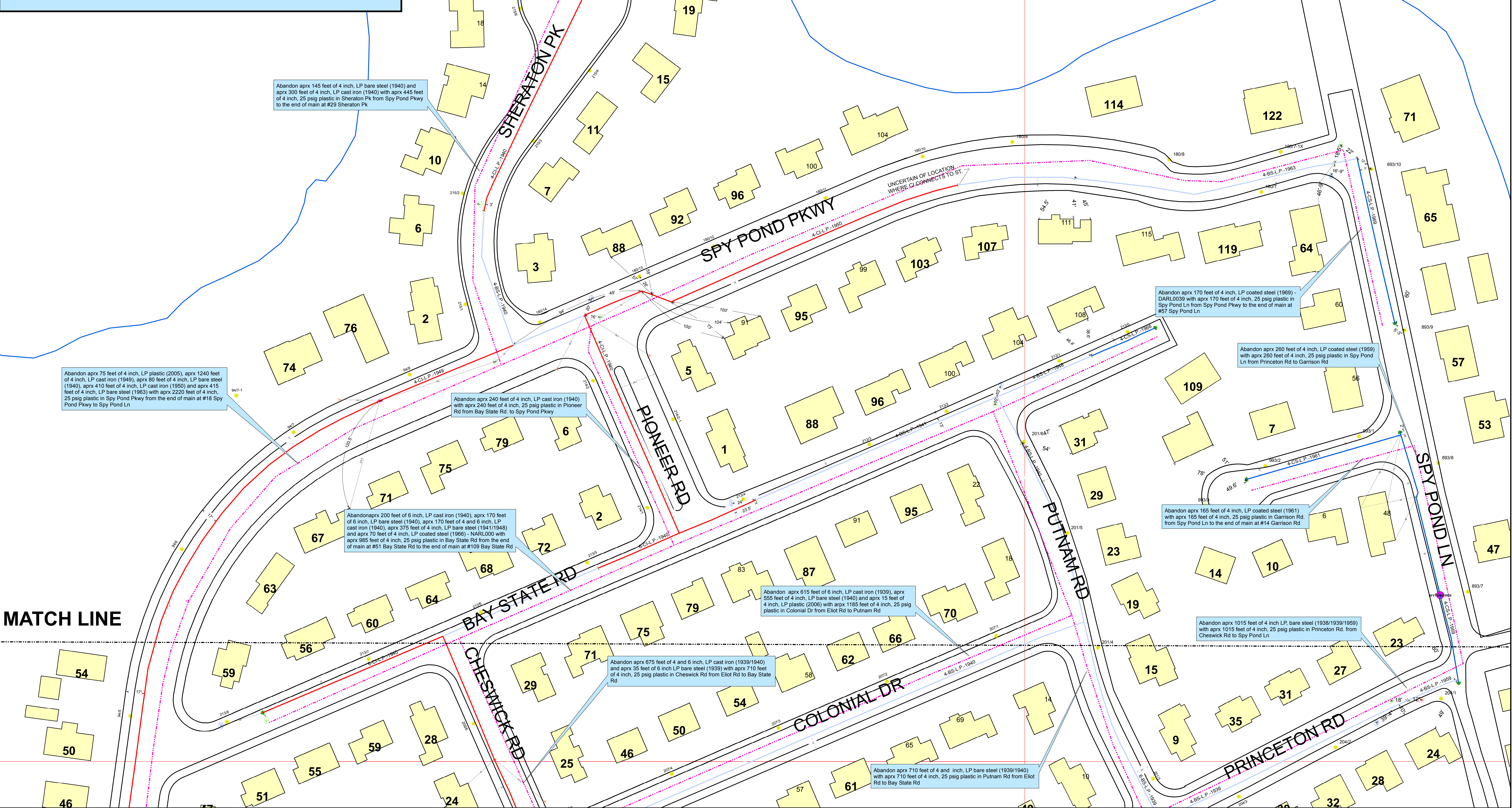
- PRESSURE GAUGES ARE REQUIRED AT ALL MAINS FOR ALL TIE-INS. REFER TO GCON-02001 PROCEDURE.
- CHECK ELECTRONIC MAPPING SYSTEM FOR MOST CURRENT MAPPING INFORMATION.

The scope of work exceeds 2,500 exceeds 2,500 feet. Contact I&R for supplemental odorization (INR06002)

WO#1197416 - 2-71 ELIOT RD, ARL, & 2-70 COLONIAL DR
System Number: Arlington/Lexington/Belmont 25#
Systems' MOPs (PSIG, or "LP"): 25 psig
Expected Operating Pressure Range: 10 - 25 psig
Design Day Temperature (?F): 0°F
Min & Max Operating Temperature Range (?F): -20°F to +73°F
Design Factor: N/A

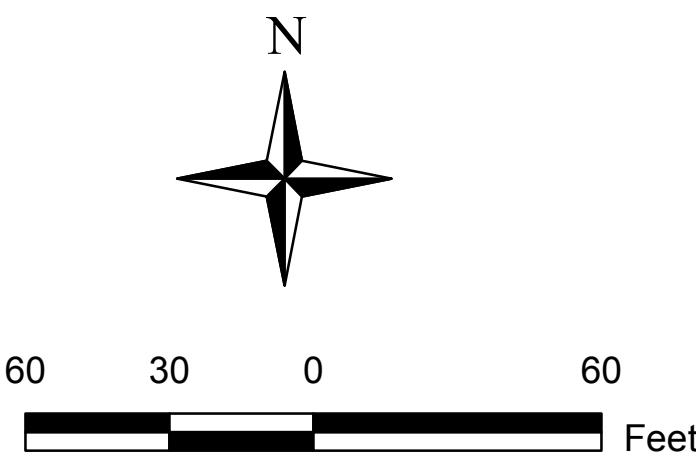
Street Name: Cabot Av, Colonial Dr (Lake St to Eliot Rd)
Sizing Recommendation: 6in PL
New mains' design pressure: 25 psig
Design Day Flow in New Pipeline Segments (Mcfh): 19 - 30
Single Feed System: No

Street Name: Colonial Dr, Eliot Rd, Eliot Pk, Cheswick Rd, Princeton Rd, Putnam Rd, Colonial Dr, Spy Pond Ln, Garrison Rd, Bay State Rd, Pioneer Rd, Roanoke Rd, Spy Pond Pkwy, Sheraton Pk
Sizing Recommendation: 4in PL
New mains' design pressure: 25 psig
Design Day Flow in New Pipeline Segments (Mcfh): 4.7
Single Feed System: Yes on Spy Pond Pkwy
Note: OK to abandon LP. Upgrade and transfer services from LP to 25 psig.
Reviewed by: Omesh Kamat. Review Date: 05/18/2020



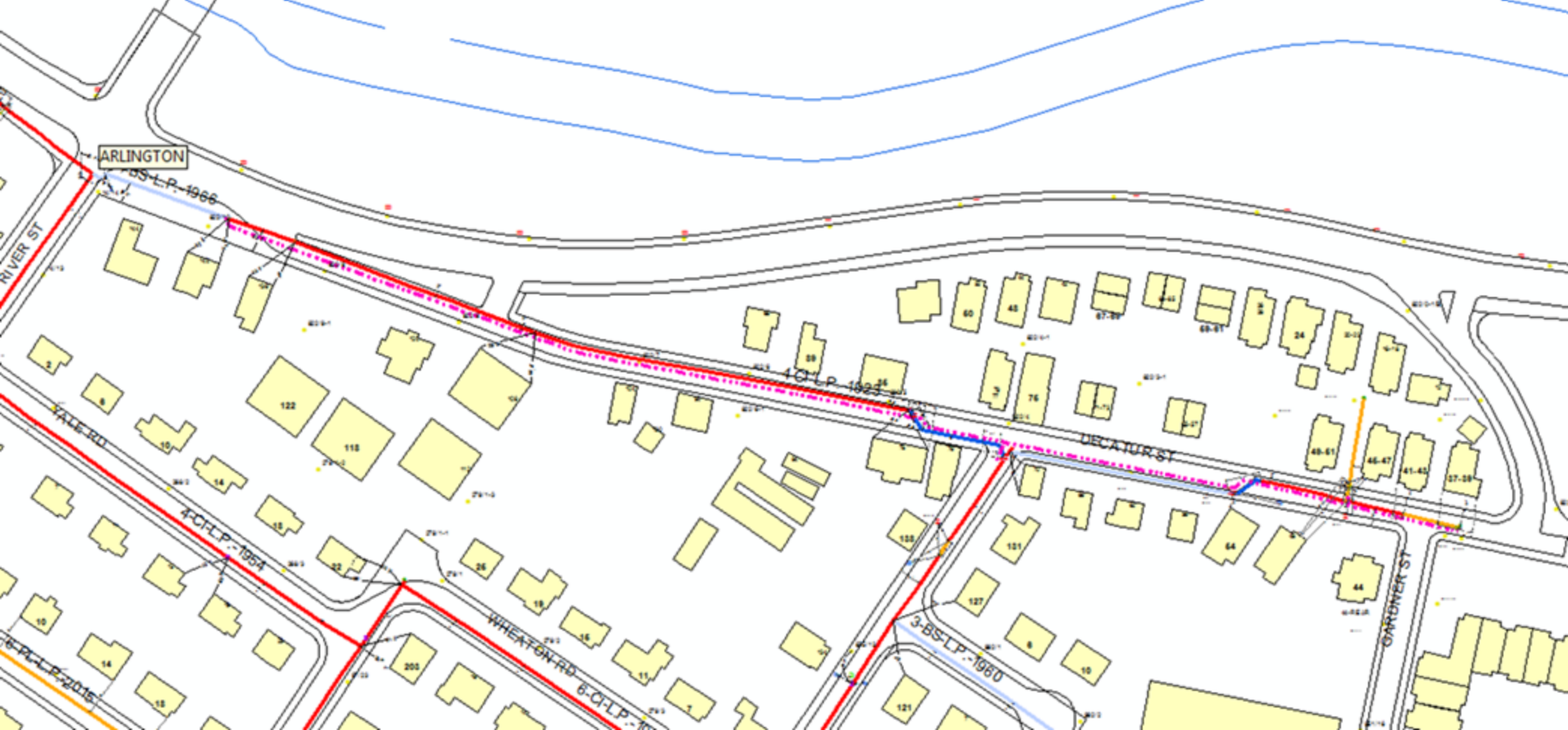
ENGINEERING DESIGN - Proposed Scope of Work

2-71 ELIOT RD, ARL, & 2-70 COLONIAL DR



NOTE: The location of surface and underground objects shown are not warranted to be correct.

ENGINEER	GRLOGUE	SIZE	4 & 6 inch	ArcFM nationalgrid
DATE	12/22/2020	MATERIAL	PL	
LENGTH	4" = 9420 Ft 6" = 485 Ft	PRESSURE	LP to 25 psig	
SECTIONALS	ARLM1223 ARLM1224	WORK ORDER #	1197416	
	ARLM1233 ARLM1234			



ATTACHMENT B

SUBJECT

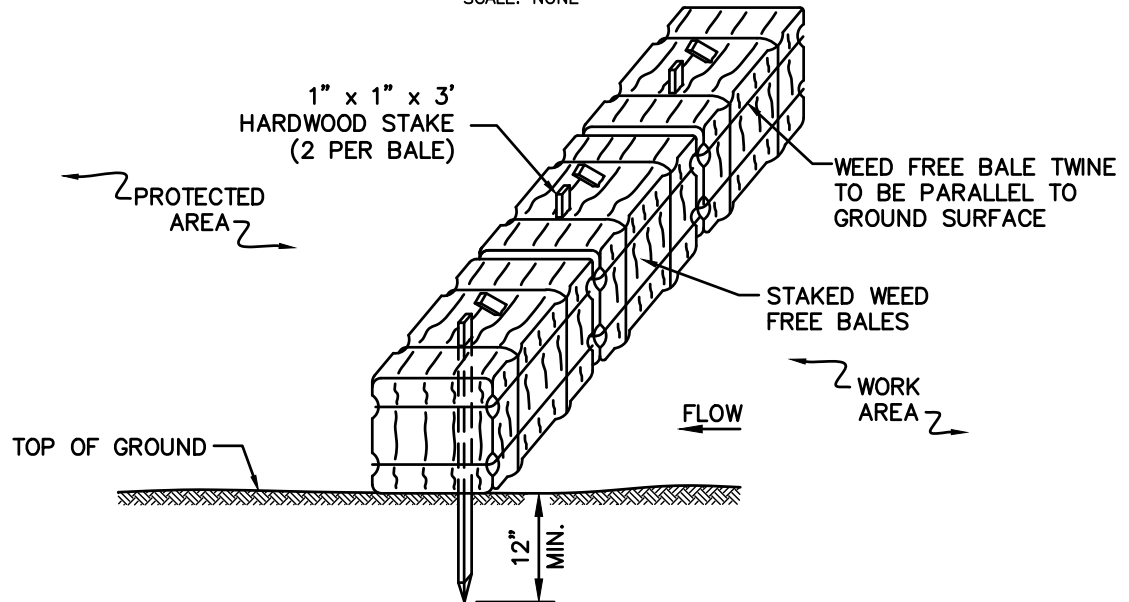
Access, Maintenance and Construction
Best Management Practices

Reference

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

BMP DETAIL

SCALE: NONE

**NOTES:**

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

BMP PICTURE**APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**

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SEC-1

WEED FREE BALE BARRIER

SUBJECT

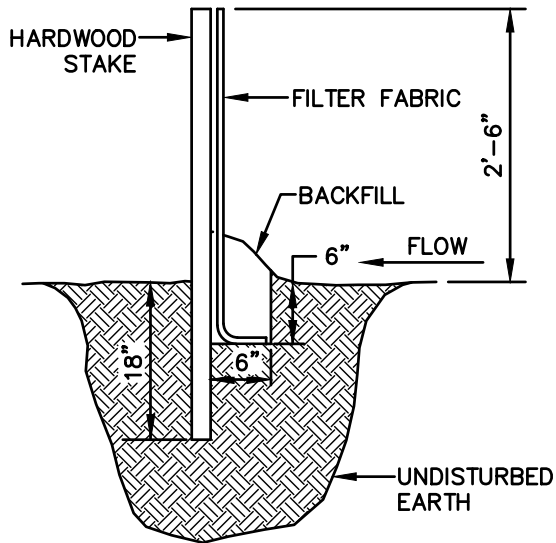
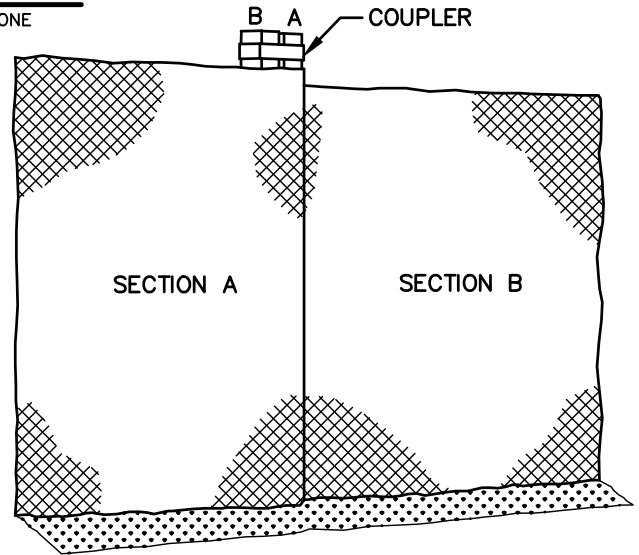
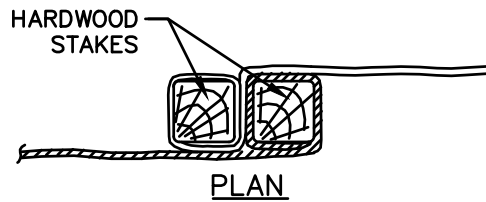
Access, Maintenance and Construction
Best Management Practices

Reference

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

BMP DETAIL

SCALE: NONE

PROFILESECTIONPLAN**BMP PICTURE**

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SEC-2
SEDIMENT CONTROL FENCE

SUBJECT

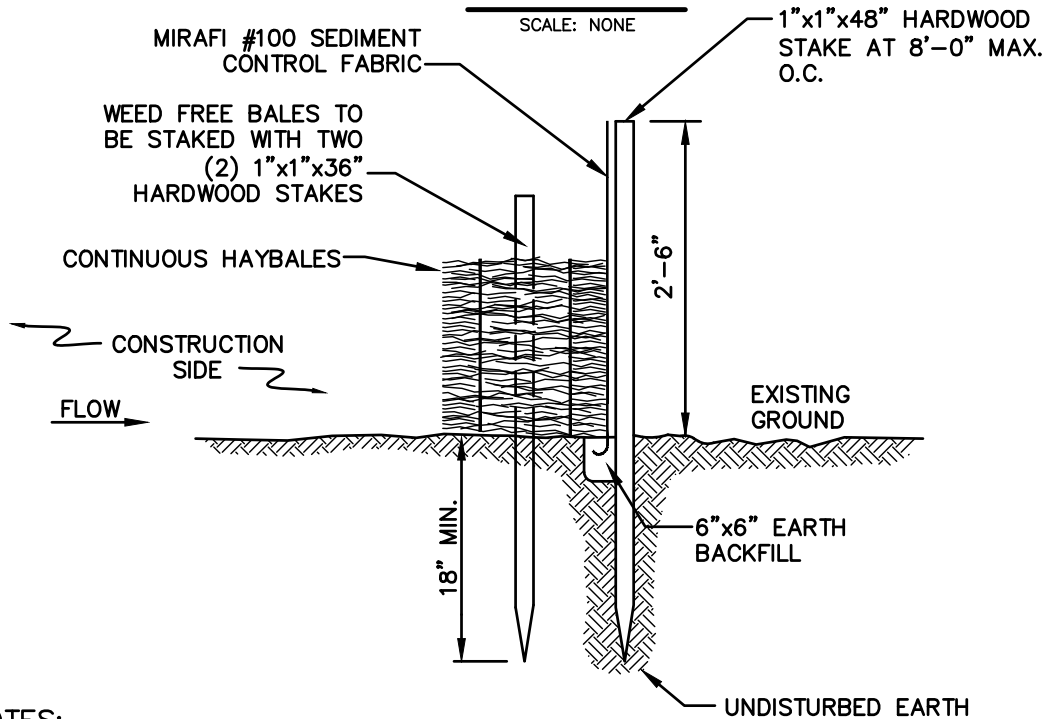
Access, Maintenance and Construction
Best Management Practices

Reference

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

BMP DETAIL

SCALE: NONE

**NOTES:**

1. BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO (2) 1"x1"x36" HARDWOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. BALES SHALL BE REMOVED AND REPLACED WHEN THEY BECOME FILLED WITH SEDIMENT AND BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
5. BALES SHALL BE REMOVED WHEN THE EMBANKMENTS STABILIZE.
6. BALES TO BE TWINE BOUND.

BMP PICTURE**SEC-3**

SILT FENCE /
WEED FREE BARRIER

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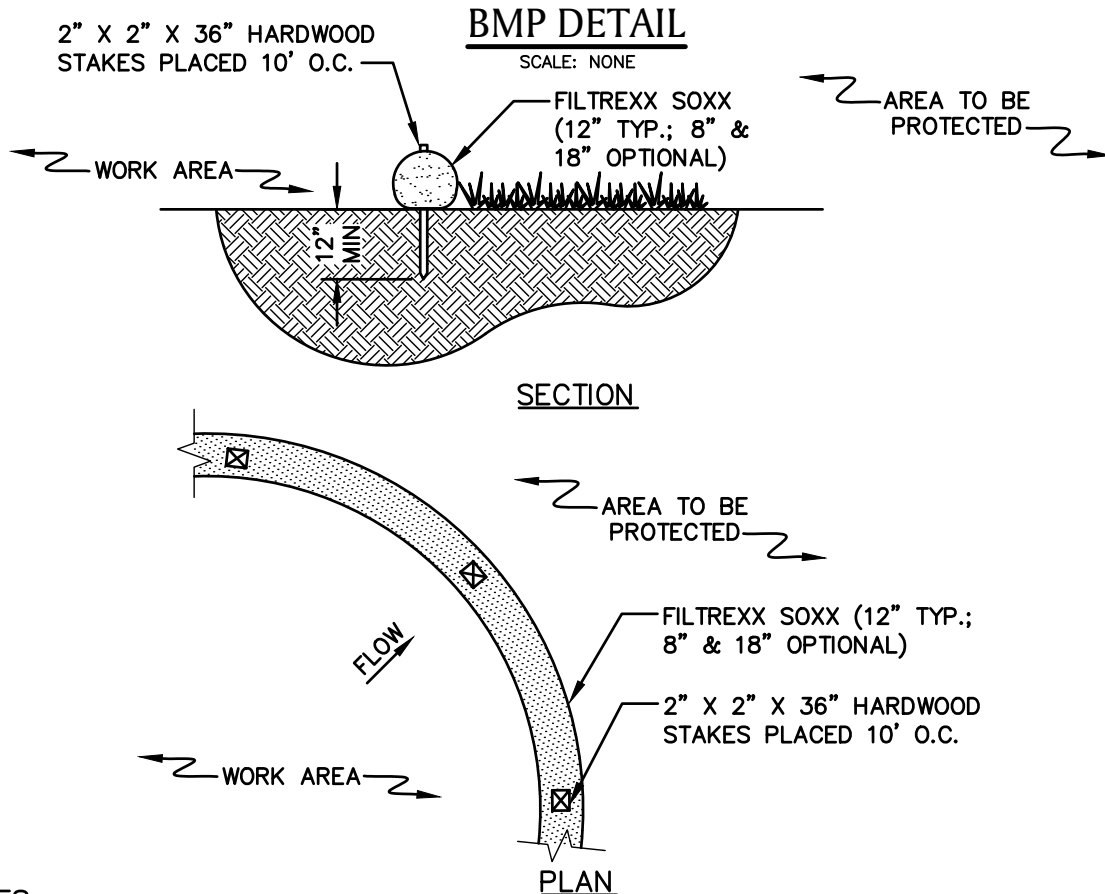
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SUBJECT

Access, Maintenance and Construction
Best Management Practices

Reference

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

**NOTES**

1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
3. 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 *

SUBJECT

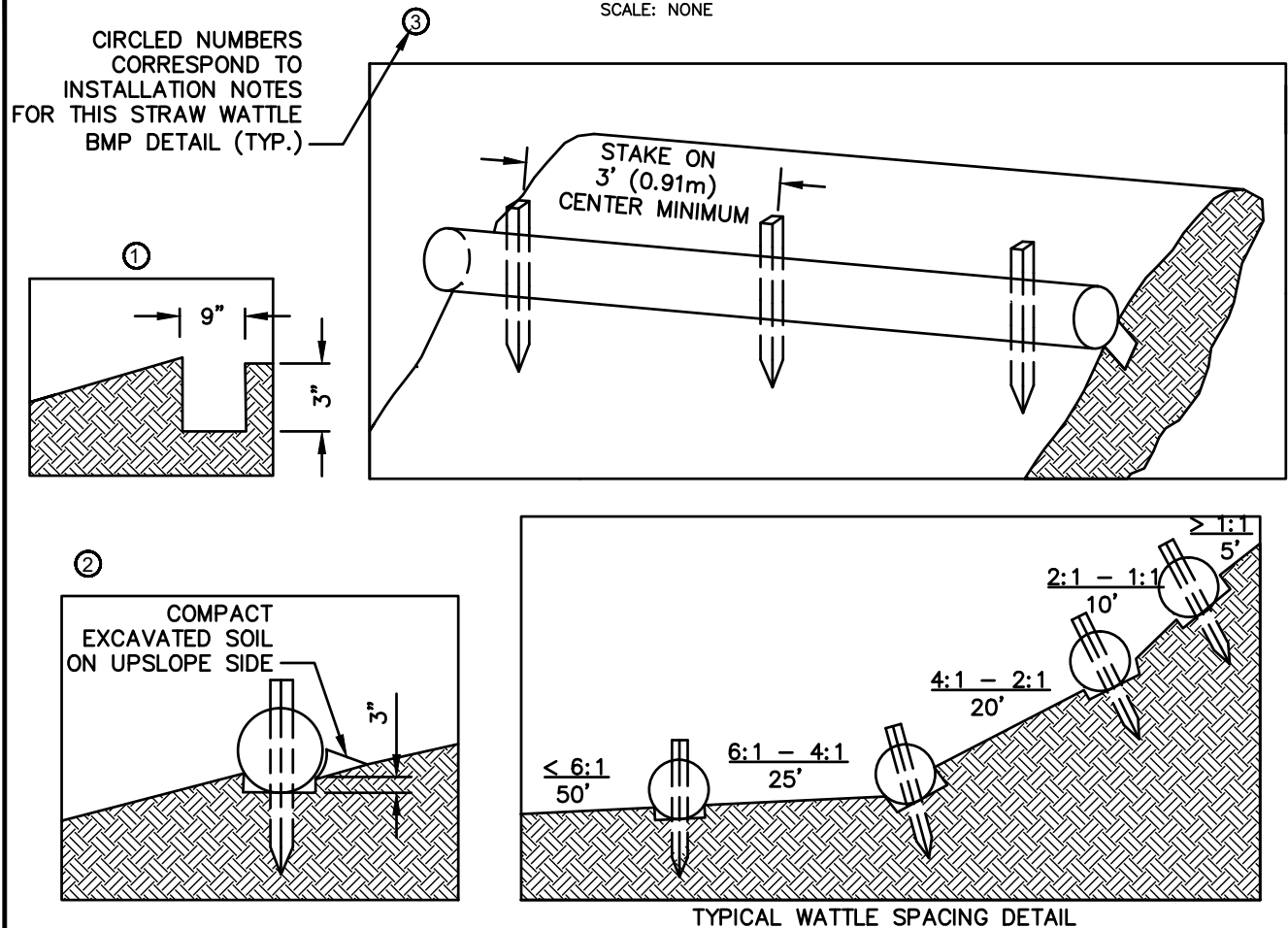
Access, Maintenance and Construction
Best Management Practices

Reference

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

BMP DETAIL

SCALE: NONE

**NOTES:**

1. PRODUCT TO BE TENSAR NORTH AMERICAN GREEN STRAW WATTLE OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. TYPICAL WATTLE SPACING BASED ON SLOPE GRADIENT. COORDINATE SPACING AND LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
3. 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:

1. 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.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18-24" HARDWOOD STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

* DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN
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SEC-5
STRAW WATTLE * (1 OF 2)

SUBJECT

Access, Maintenance and Construction
Best Management Practices

Reference

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

BMP PICTURE

STRAW WATTLE – SHALLOW SLOPE ($\leq 4:1$)
(ALTERNATE STAKING)

ALTERNATE STAKING INSTALLATION NOTES:

1. 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.

SUBJECT

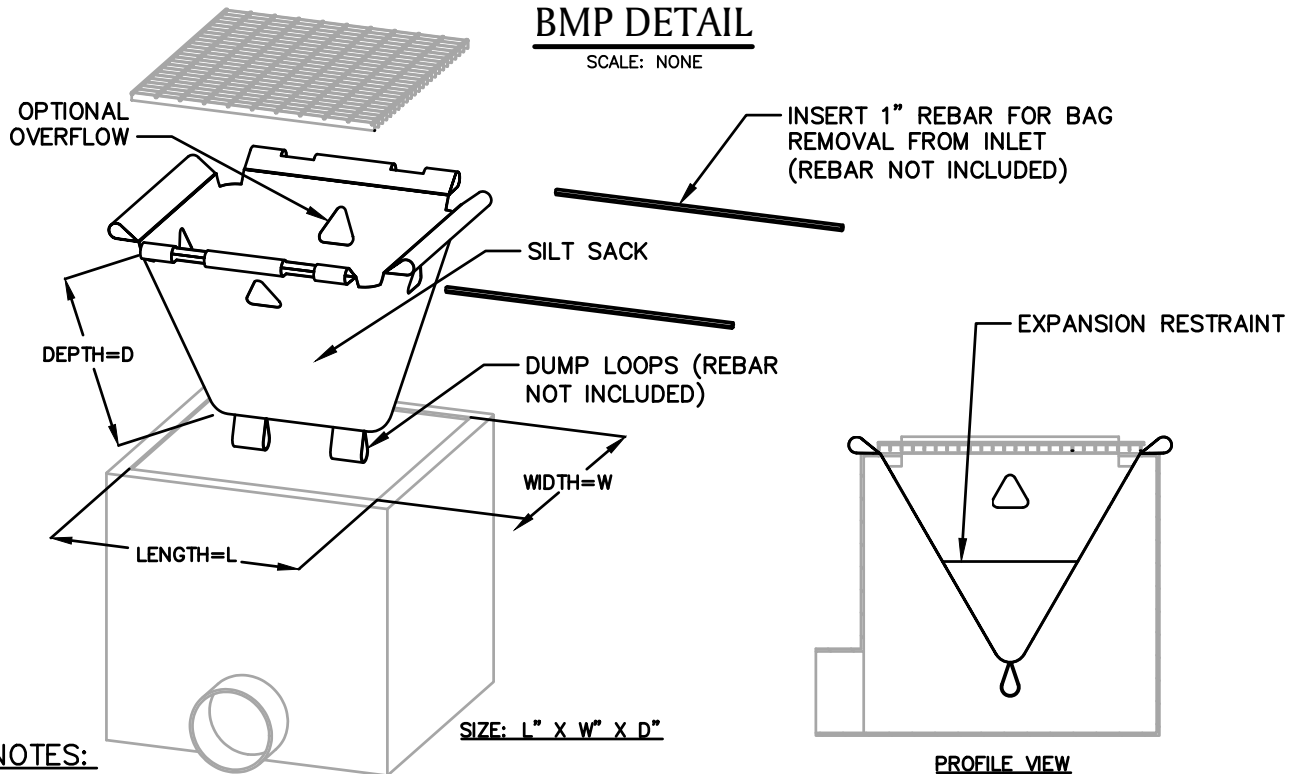
Access, Maintenance and Construction
Best Management Practices

Reference

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

BMP DETAIL

SCALE: NONE

**BMP PICTURE**

* DETAIL PROVIDED BY ACF ENVIRONMENTAL

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AA-20
SILT SACK *