

Request for Determination of Applicability

June 9, 2014

Subject Property

Teamworks Acton
30 Great Road
Acton, Massachusetts

Applicant

Boston Gas Company d/b/a National Grid
New England South Division
100 East Ashland Street
Brockton, MA 02332

LEC Environmental Consultants, Inc.

100 Grove Street
Suite 302
Worcester, MA 01605
508-753-3077
508-753-3177 fax

www.lecenvironmental.com

June 9, 2014

Federal Express

Terry Maitland, Chair
 Acton Conservation Commission
 Town Hall
 472 Main Street
 Acton, MA 01720

**RE: Request for Determination of Applicability
 Proposed Gas Line Installation
 Teamworks Acton
 30 Great Road
 Acton, Massachusetts**

[LEC File #: PALInc\14-143.04]

Dear Chair Maitland and Members of the Commission:

On behalf of Boston Gas Company d/b/a National Grid (Applicant), LEC Environmental Consultants, Inc. (LEC) respectfully submits the enclosed Request for Determination of Applicability (RDA) for work associated with the proposed installation of a new natural gas line to service Teamworks Acton located in Acton, Massachusetts. This filing is submitted pursuant to the *Massachusetts Wetlands Protection Act* (M.G.L. c. 131, s. 40, the “Act”) and implementing Regulations (310 CMR 10.00, “Regulations”), and the Town of Acton Wetlands Protection Bylaw (Chapter F) and implementing Regulations (Section 1).

The proposed project includes the extension of an existing gas line located within Great Road to service 30 Great Road (Teamworks Acton) and includes the installation of approximately 600 linear feet of 2-inch plastic gas lines. The work is generally confined to the footprint of the existing paved driveway and parking lot of the facility. The activity is located, in part, within the previously disturbed/developed 100-foot Buffer Zone to Bordering Vegetated Wetland and Bank-Mean Annual High Water (MAHW) Line associated with Nashoba Brook, within previously degraded 200-foot Riverfront Area, and/or Bordering Land Subject to Flooding. This work, which incorporates erosion controls to protect adjacent wetland resource areas, is temporary in nature and, except for the location where the gas line is affixed to the face of the bridge across the Nashoba River, results in no above-ground structures. Following installation of the gas line, the project area will be stabilized and restored to pre-existing conditions.

As required, enclosed are 2 copies of the RDA submission package:

- DEP WPA Form 1- Request for Determination of Applicability (Attachment A);
- Abutter Information (Attachment A);
- USGS Topographic Map (Attachment B, Figure 1);
- FEMA Flood Insurance Rate Map (Attachment B, Figure 2);
- Site Plan, Bridge Crossing Drawing (2 sheets) and Trench Details (Attachment C);
- Site Photographs (Attachment D); and
- Erosion Control Details (Attachment E).



Enclosed please find a check made payable to the Town of Acton in the amount of Forty-Five Dollars (\$45.00) for the purpose of filing this Application under bylaw guidelines.

It is our understanding that the Conservation Commission will place the legal advertisement in a paper of local circulation so as to appear on the Conservation Commission's July 2, 2014 agenda. Please coordinate payment of the legal advertisement directly with LEC. In conclusion, the proposed project fully complies with the governing regulations, and we respectfully request the Commission issue a Negative Determination of Applicability allowing the work to proceed as described herein.

We trust that the information included herein is sufficient to facilitate your review. Should you have any questions regarding this Request for Determination of Applicability or require additional information, please do not hesitate to contact me in our Worcester Office at 508-753-3077 or at akendall@lecenvironmental.com. Thank you for your consideration of this RDA. We look forward to meeting with the Commission.

Sincerely,

LEC Environmental Consultants, Inc.

A handwritten signature in black ink that reads "Andrea Kendall".

Andrea Kendall
Senior Environmental Scientist

cc: DEP, Central Regional Office
Deborah Blanch, National Grid
Teamworks Acton

1. Introduction

On behalf of the Applicant, Boston Gas Company, d/b/a National Grid, LEC Environmental Consultants, Inc., (LEC) is filing the enclosed Request for Determination of Applicability (RDA) with the Acton Conservation Commission to provide new gas service to Teamworks Acton located at 30 Great Road, Acton, Massachusetts. This project will replace the oil-based heating and hot water systems with a natural gas heating source. In addition, the new kitchen at the facility will be serviced by natural gas. As part of this effort, the proposed 2-inch plastic gas line will connect to and extend from the existing 4-inch gas line within Great Road. The proposed project will occur, in part, within the previously disturbed 100-foot Buffer Zone to Bordering Vegetated Wetland and Bank-Mean Annual High Water (MAHW) Line of Nashoba Brook, the 200-foot 'degraded' Riverfront Area associated with Nashoba Brook, and Bordering Land Subject to Flooding. The proposed activity is depicted on the enclosed plan, *Proposed Gas Line Installation*, dated June 9, 2014, prepared by LEC Environmental Consultants, Inc. and Bridge Crossing Drawing (2 sheets), dated May 6, 2014 prepared by National Grid (*Plans*, Attachment C).

2. General Site Description

The project area is located within the central-eastern portion of town, north of Route 2, west of the Concord/Acton town line and on the south side of Great Road. The area contains commercial and residential development to the north, south, east, and west. Nashoba Brook and bordering vegetated wetlands flow southerly beneath the property's driveway. The project area includes the driveway, bridge span, and parking area associated with Teamworks Acton, as well as a small segment of Great Road. An above-ground electric and telecommunication distribution line attached to wooden utility poles extends from Great Road to service the existing facility. These poles are located on the north side of the driveway. The driveway, shared with a landscaping business located to the south, does not have curbing so stormwater runoff generally sheet flows towards adjacent low lying vegetated areas and the river/wetland system. The Bank-Mean Annual High Water of Nashoba Brook and Bordering Vegetated Wetlands were delineated in proximity to the proposed work, and the approximate location of these areas are depicted on the enclosed site plan. The gas line installation is located, in part, within the 100-foot Buffer Zone to a Bordering Vegetated Wetland/Bank-Mean Annual High Water, 200-foot Riverfront Area, and Bordering Land Subject to Flooding.

2.1 Natural Heritage and Endangered Species Program Designation

According to the Maynard Quadrangle of the 2008 edition of the *Massachusetts Natural Heritage Atlas* and the MassGIS, Natural Heritage Endangered Species Program data layers, no areas of Estimated Habitat for Rare Wildlife or Certified Vernal Pools exist on the site.

2.2

Federal Emergency Management Agency Floodplain Designation

According to the June 4, 2010 *Federal Emergency Management Agency Flood Insurance Rate Map* for Middlesex County, Massachusetts (Map No: 25017C0356E), a portion of the project area, in proximity to the river crossing, is contained within Zone A: *Special Flood Hazard Areas Subject to Inundation by the 1% Annual Chance Flood; Base Flood Elevation 126'* (refer to Attachment B, Figure 2).

3.

Proposed Gas Line Installation

The objective of the project is for National Grid to deliver natural gas to Teamworks Acton for heating, hot water, and cooking use. National Grid proposes to tie into the existing 4-inch gas line within Great Road to service the facility. This work includes the installation of approximately 600 linear feet of 2-inch plastic gas line within and adjacent to the facility's driveway and parking area.

A 16 to 18-inch wide by 3±foot deep trench will be excavated to install the gas line, with the precise location of the trench and line determined in the field so that existing utility and drainage structures can be avoided. All new mains will maintain a clearance of at least 12 inches from any other underground facilities and will be buried deep enough to establish a minimum cover of 30 inches (a cover of 36-inches is preferred where possible).

Given the insufficient depth between the bottom of the bridge and top of roadway, the proposed 2-inch gas line cannot be buried within this section of driveway. As such, the gas line will be affixed to the concrete face (south side) of the bridge (refer to Site Plans, Attachment C) and will consist of steel piping. For approximately 5-foot sections immediately east and west of the bridge, the gas line will move from the pavement to the vegetated shoulder of the driveway in order to line up with and cross the river. Erosion controls will be established and maintained between the Bank-MAHW and the trench excavation activities located in the vegetated shoulder. As a result, there will be no disturbance to Nashoba Brook and BVW, including Bank-MAHW and Land Under Water, as a result of this project.

During construction, soil excavated from the trench will be stored on a temporary basis adjacent to the trench or placed directly in a truck for later reuse. Any soil that cannot be reused will be trucked away. New backfill material brought on-site will be similarly handled. At the end of each work day, open trenches will be backfilled or covered by a steel plate. Soil stockpiles will be protected overnight should any remain at the end of a work day and will be located outside the 100-foot buffer zone. In addition, if dewatering of the trench is required, groundwater will be pumped through a silt bag or small dewatering basin (Attachment D). Finally, paved areas within the project area will be swept each day to control movement of sediment.

Once activities are complete, pre-existing conditions (i.e., vegetation, pavement, elevation, and grades) will be restored and the site will be stabilized. Following seeding of disturbed areas, mulch will be applied to conserve moisture and minimize erosion.

Construction is targeted to start in the summer following procurement of all permits and is projected to require approximately two weeks to complete.

The activity is located, in part, within the 200-foot ‘degraded’ Riverfront Area (i.e., approximately 435 linear feet of the gas line) and the 100-foot Buffer Zone (i.e., approximately 530 linear feet of the gas line) to BVW and Bank-MAHW Line associated with Nashoba Brook. Finally, although a small portion of the activity, in the vicinity of the river crossing, is located within the 100-year floodplain, no change in flood storage will occur as a result of the buried gas line and above-ground steel gas pipe affixed to the concrete face of the bridge.

Work within the previously developed Buffer Zone and degraded Riverfront Area represents a route that is reasonable with no adverse impacts to resource areas. As described above, there is not enough depth over the bridge to embed the gas line within the roadway. The proposed design of attaching the gas line to the exterior face of the concrete bridge represents a design that minimizes land disturbance and potential environmental impacts. The only other alternative would be to install the gas lines below the river bed using directional drilling. Although this is an established methodology for installing utilities across rivers, for instance, this methodology is typically used when no other option is readily available. Exploratory borings would likely be required to verify whether existing site conditions would support this installation technique. As required, erosion controls and other best management practices will be implemented to minimize adverse effects during construction. In addition, the site will be restored to preexisting conditions following construction activities and said erosion controls will remain in place until the site becomes stabilized.

4. Mitigation Measures

The Applicant intends to implement erosion controls during construction activities, in accordance with National Grid’s Environmental Guidance document (EG303), to mitigate for any potential impacts to wetland resource areas during construction. National Grid’s EG303 provides specifications on environmental procedures and best management practices (BMPs) to be followed by National Grid personnel, consultants, and contractors. A description of these mitigating measures is provided below.

4.1 Erosion and Sedimentation Control

The Applicant proposes to implement an erosion control program to protect Nashoba Brook and BVWs from sedimentation during construction activities. The plan for the control of potential impacts to the adjacent Wetland Resource Areas will be comprised of erosion

control barriers (e.g., haybales or silt sock) (Attachment E), catch basin inlet protection devices, and best management practices (e.g., site housekeeping). Construction material storage and construction vehicles/activity will be confined to within paved areas. All erosion control barriers will remain in place until disturbed areas are stabilized by vegetation and/or pavement. Additionally, the Applicant will install and maintain catch basin inlet protection BMPs within paved areas if present and where needed to protect the adjacent wetland resource areas. The approximate location of the proposed erosion controls is shown and/or noted on the *Plan* (Attachment C), but it is important to note that during construction, field conditions may warrant additional erosion control practices to be implemented. Finally, if required, vehicle refueling will be located beyond the 100-foot Buffer Zone. As a result of these construction level BMPs, Nashoba Brook and BVWs will be protected.

5.**Summary**

On behalf of the Applicant, Boston Gas Company (d/b/a National Grid), LEC Environmental Consultants, Inc., is filing this Request for Determination of Applicability with the Acton Conservation Commission to provide new gas service to Teamworks Acton in Acton, Massachusetts. The proposed activities will occur, in part, within the previously disturbed 100-foot Buffer Zone to Bordering Vegetated Wetland and Bank-Mean Annual High Water (MAHW) Line of Nashoba Brook, the 200-foot 'degraded' Riverfront Area and Bordering Land Subject to Flooding.

In an effort to mitigate for the proposed construction related activities, erosion control measures and best management practices will be followed to protect adjacent Wetland Resource Areas. The Applicant respectfully requests that the Commission issue a Negative Determination of Applicability allowing the work to proceed as described.

Attachment A

DEP WPA Form 1- Request for Determination of Applicability

Affidavit of Service

Abutter Letter

Abutter Notification Form

List of Abutters



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
Town of Acton Wetlands Protection Bylaw

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 key.



1. Applicant:

Boston Gas Company d/b/a National Grid Deborah.Blanch@nationalgrid.com
Name E-Mail Address
100 East Ashland Street
Mailing Address
Brockton MA 02302
City/Town State Zip Code
617-908-8881
Phone Number
Fax Number (if applicable)

2. Representative (if any):

LEC Environmental Consultants, Inc.
Firm
Andrea Kendall AKendall@lecenvironmental.com
Contact Name E-Mail Address
100 Grove Street, Suite 302
Mailing Address
Worcester MA 01605
City/Town State Zip Code
508-753-3077
Phone Number
Fax Number (if applicable)

B. Determinations

1. I request the Acton Conservation Commission make the following determination(s). Check any that apply:

- a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Acton
Name of Municipality

- e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
Town of Acton Wetlands Protection Bylaw

C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

<u>30 Great Road</u>	<u>Acton</u>
Street Address	City/Town
<u>G5-82-1</u>	
Assessors Map/Plat Number	Parcel/Lot Number

b. Area Description (use additional paper, if necessary):

Refer to Attached

c. Plan and/or Map Reference(s):

<u>Proposed Gas Line Installation, Teamworks Acton, 30 Great Road, Acton, MA prepared by LEC Environmental Consultants, Inc.</u>	<u>June 9, 2014</u>
Title	Date
<u>Bridge Crossing Drawing, Service for 30 Great Road, Acton, MA (2 sheets)</u>	<u>May 6, 2014</u>
Title	Date
<u> </u>	<u> </u>
Title	Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

Refer to Attached



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
Town of Acton Wetlands Protection Bylaw

C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

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. N/A

- 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.)



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
Town of Acton Wetlands Protection Bylaw

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.

Name and address of the property owner:

Acton Sports Property Ltd. Ptnp.

Name

30 Great Road

Mailing Address

Acton

City/Town

MA

State

01720

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.

Signature of Applicant: Deborah Blanch, Boston Gas Company d/b/a
National Grid

June 9, 2014

Date

Signature of Representative (if any): Andrea Kendall, LEC Environmental
Consultants, Inc.

June 9, 2014

Date

Copy of Filing Fee

LEC ENVIRONMENTAL CONSULTANTS, INC.
12 RESNIK ROAD, SUITE 1
PLYMOUTH, MA 02360

53-7054/2113

20659

DATE June 9, 2014

PAY TO THE ORDER OF Town of Acton \$ 45.00
Forty-five and 00/100 DOLLARS



FOR RDA Filing Fee

[Signature]
AUTHORIZED SIGNATURE



⑈020659⑈ ⑆211370545⑆ 0605804301⑈

THE FACE OF THIS DOCUMENT CONTAINS A SENSITIVE INFORMATION SUBSTRATE IT WILL REPRODUCE WITH USAT

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

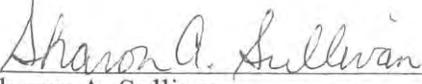
and

the Town of Acton Wetlands Protection Bylaw

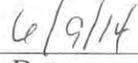
I, Sharon A. Sullivan, on behalf of Boston Gas Company d/b/a National Grid, hereby certify under the pains and penalties of perjury that on June 9, 2014 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 and 310 CMR 10.05 (4) (a) in connection with the following matter:

A Request for Determination of Applicability filed under the Massachusetts Wetlands Protection Act and the Town of Acton Wetlands Protection Bylaw by LEC Environmental Consultants, Inc. on behalf of the Applicant, Boston Gas Company d/b/a National Grid, with the Town of Acton Conservation Commission on June 9, 2014 for property located at 30 Great Road (Assessor's Parcel ID: G5-82-A) in Acton, Massachusetts.

The form of notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.



Sharon A. Sullivan
Permitting Technician



Date

June 9, 2014

Certified Mail

«Name»

«Name2»

«Address»

«City», «State» «Zip»

**Re: 30 Great Road
Assessor's Parcel ID: G5-82-1
Acton, Massachusetts**

[LEC File #: PALInc\14-143.04]

Dear Abutter:

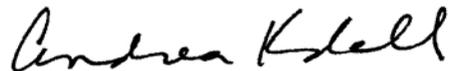
On behalf of the Applicant, Boston Gas Company d/b/a National Grid, you are hereby notified that LEC Environmental Consultants, Inc. (LEC) has submitted a Request for Determination of Applicability (RDA) to the Acton Conservation Commission for work associated with the proposed installation of a natural gas line to service Teamworks Acton located at 30 Great Road in Acton, Massachusetts. This filing is submitted pursuant to the *Massachusetts Wetlands Protection Act* (Act, M.G.L.c.131 § 40), its implementing Regulations (*Act Regulations*, 310 CMR 10.00), and the *Town of Acton Wetlands Protection Bylaw* (Chapter F) and implementing *Regulations* (Section 1).

The Request for Determination of Applicability and accompanying plans are available for review by the public at the Acton Conservation Commission, Town Hall, 472 Main Street. A Public Hearing will be held in Room 204 in Town Hall on July 2, 2014, in accordance with the provisions of the *Massachusetts Wetlands Protection Act* (M.G.L. Ch. 131, s. 40, as amended) and the *Town of Acton Wetlands Protection Bylaw*. Further information regarding this Public Hearing will be published at least five (5) days in advance in *The Acton/Boxborough Beacon*. Notice of the Public Hearing will also be posted at the Acton Town Hall at least 48 hours in advance.

Please do not hesitate to review the Application materials and/or attend the Public Hearing should you have questions or concerns regarding the proposed project.

Sincerely,

LEC Environmental Consultants, Inc.



Andrea Kendall
Senior Environmental Scientist

enclosure

Notification to Abutters Under the
Massachusetts Wetlands Protection Act

and

the Town of Acton Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following:

- A. The name of the Applicant is Boston Gas Company d/b/a National Grid, New England South Division, 100 East Ashland Street, Brockton, MA 02302.
- B. The Applicant has filed a Request for Determination of Applicability with the Conservation Commission for the municipality of Acton, Massachusetts for the installation of a natural gas line at 30 Great Road to service Teamworks Acton. This filing is submitted pursuant to the *Massachusetts Wetlands Protection Act* (Act, M.G.L.c.131 § 40), its implementing Regulations (*Act Regulations*, 310 CMR 10.00), and the *Town of Acton Wetlands Protection Bylaw* (Chapter F) and implementing *Regulations* (Section 1).
- C. The activity is proposed at 30 Great Road (Assessor's Parcel ID: G5-82-1), Acton, Massachusetts.
- D. Copies of the Request for Determination of Applicability may be examined by contacting the Acton Conservation Commission at (978) 929-6634 between 8:00 a.m. and 5:00 p.m., Monday through Friday.

For more information, call: LEC Environmental Consultants, Inc. (the applicant's representative) at (508) 753-3077.
- E. Copies of the Request for Determination of Applicability may be obtained from LEC Environmental Consultants, Inc. (the applicant's representative) by calling (507) 753-3077 between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday. A fee may be charged for each copy requested.
- F. Information regarding the public hearing may be obtained from the Acton Conservation Commission (the regulatory agency) by calling (978) 929-6634 between 8:00 a.m. and 5:00 p.m., 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 Acton/Boxborough Beacon.

NOTE: Notice of the public hearing will also be posted at the Acton Town Hall not less than 48 hours in advance.

NOTE: You also may contact the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call:

Central Region: 508-792-7650



Town of Acton
 472 Main Street
 Acton, MA 01720
 Telephone (978) 264-9622
 Fax (978) 264-9630

Brian McMullen
 Assistant Assessor

Locus: 30 Great Road
Parcel ID: G5-82-1

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
G4-208	32 WETHERBEE ST	MORITZ CLEMENT & ELIZABETH, TR	C. & E. MORITZ MGMT. TRUST	32 WETHERBEE STREET	ACTON	MA	01720
G4-209	58 WETHERBEE ST	COMMONWEALTH OF MASS		DEPT OF PUBLIC WORKS	BOSTON	MA	02108
G5-76-111	48 GREAT RD	ANTONIO BLASI		8 GEORGE RD	MAYNARD	MA	01754
G5-76-112	48 GREAT RD	ACTON HOUSING AUTHORITY		PO BOX 681	ACTON	MA	01720
G5-76-113	48 GREAT RD #13	DEMORE EDWARD L	C & R PROPERTIES TRUST	141 TREMONT ST SUITE 500	BOSTON	MA	02111
G5-76-114	48 GREAT RD #14	YIN YI		31 HARWICH RD	NEWTON	MA	02467
G5-76-115	48 GREAT RD #15	PAOLINI PAUL S	PAOLINI KIMBERLY L	48 GREAT RD #15	ACTON	MA	01720
G5-76-116	48 GREAT RD #16	JACOBY THOMAS M		457 MASS AVE	ACTON	MA	01720
G5-76-117	48 GREAT RD #17	PIKE JAMES		48 GREAT ROAD #17	ACTON	MA	01720
G5-76-118	48 GREAT RD #18	KASHIF SAMINA		48 GREAT ROAD #18	ACTON	MA	01720
G5-76-121	48 GREAT RD	ACTON HOUSING AUTHORITY		PO BOX 681	ACTON	MA	01720
G5-76-122	48 GREAT RD #22	FRANCIS MICHAEL W		48 GREAT RD #22	ACTON	MA	01720
G5-76-123	48 GREAT RD #23	FASULO PONG S		4 VICTOR DR	AYER	MA	01432
G5-76-124	48 GREAT RD #24	BARBERA DAVID A		48 GREAT RD #24	ACTON	MA	01720
G5-76-125	48 GREAT RD #25	BIFOLCK MARIE FOUNTAIN		48 GREAT RD #25	ACTON	MA	01720
G5-76-126	48 GREAT RD #26	KELLY VIRGINIA M		48-35 GREAT RD	ACTON	MA	01720
G5-76-127	48 GREAT RD #27	SWANSON JOY E		48 GREAT RD #27	ACTON	MA	01720
G5-76-128	48 GREAT RD #28	CHEN YINGXUE		103 CANTERBURY HILL RD	ACTON	MA	01720
G5-76-131	48 GREAT RD #31	YOUNG BRANDEN	YOUNG DEREKA M	48 GREAT RD #31	ACTON	MA	01720
G5-76-132	48 GREAT RD #32	HENRIQUEZ JOSE A		48 GREAT RD #32	ACTON	MA	01720
G5-76-133	48 GREAT RD #33	KULESZA MATTHEW		24 HIGHFIELD RD #1	ROSLINDALE	MA	02131
G5-76-134	48 GREAT RD #34	MULLIN LIVING TRUST		48 GREAT RD #34	ACTON	MA	01720
G5-76-135	48 GREAT RD #35	STOVER THOMAS S		48 GREAT RD #35	ACTON	MA	01720
G5-76-136	48 GREAT RD #36	MOORE PATRICIA		48 GREAT RD UNIT 36	ACTON	MA	01720
G5-76-137	48 GREAT RD #37	BRIGHAM KIM		48 GREAT RD #37	ACTON	MA	01720
G5-76-138	48 GREAT RD #38	STOVER THOMAS		48 GREAT RD #38	ACTON	MA	01720
G5-77	35 GREAT RD	SIMS DONNA M		35 GREAT RD	ACTON	MA	01720
G5-78	29 GREAT RD	AHC INC		29 GREAT RD	ACTON	MA	01720
G5-79	38 GREAT RD	LUNG CHIK YAN	LUNG NGA CHEE	178 LAKE SHORE RD	BRIGHTON	MA	02135
G5-80	19 GREAT RD	AHC INC		19 GREAT RD	ACTON	MA	01720
G5-82	18 WETHERBEE ST	DURKIN JOHN D	STACEY G	18 WETHERBEE ST	ACTON	MA	01720
G5-83	1-13 KEEFE RD	LENOX ASSOCIATES LLC		1 KEEFE ROAD	ACTON	MA	01720
G5-90	19 KEEFE RD	MORGAN WAYNE L	MORGAN DIANE L	6 GREAT ROAD	ACTON	MA	01720
G5-92	21 KEEFE RD	DOLAN WARREN J		21 KEEFE ROAD	ACTON	MA	01720
G5-95	66 WETHERBEE ST RE	COMMONWEALTH OF MASS	DEPT OF PUBLIC SAFETY	1010 COMMONWEALTH AVENUE	BOSTON	MA	02215
G5-96	25 KEEFE RD BEHIND	COMMONWEALTH OF MASS	WOODS	DEPT OF PUBLIC WORKS	BOSTON	MA	02108

The owner of land sharing a common boundry or corner with the site of the proposed activity (100 feet) in any direction, including land located directly across a street, way, creek, river, stream, brook or canal. The above are as they appear on the most recent applicable taxes.

NOTE:

Per the Acton Conservation Commission, in lieu of notifying all property owners at 48 Great Road (Pillar House Condominiums), only the condominium association was notified.

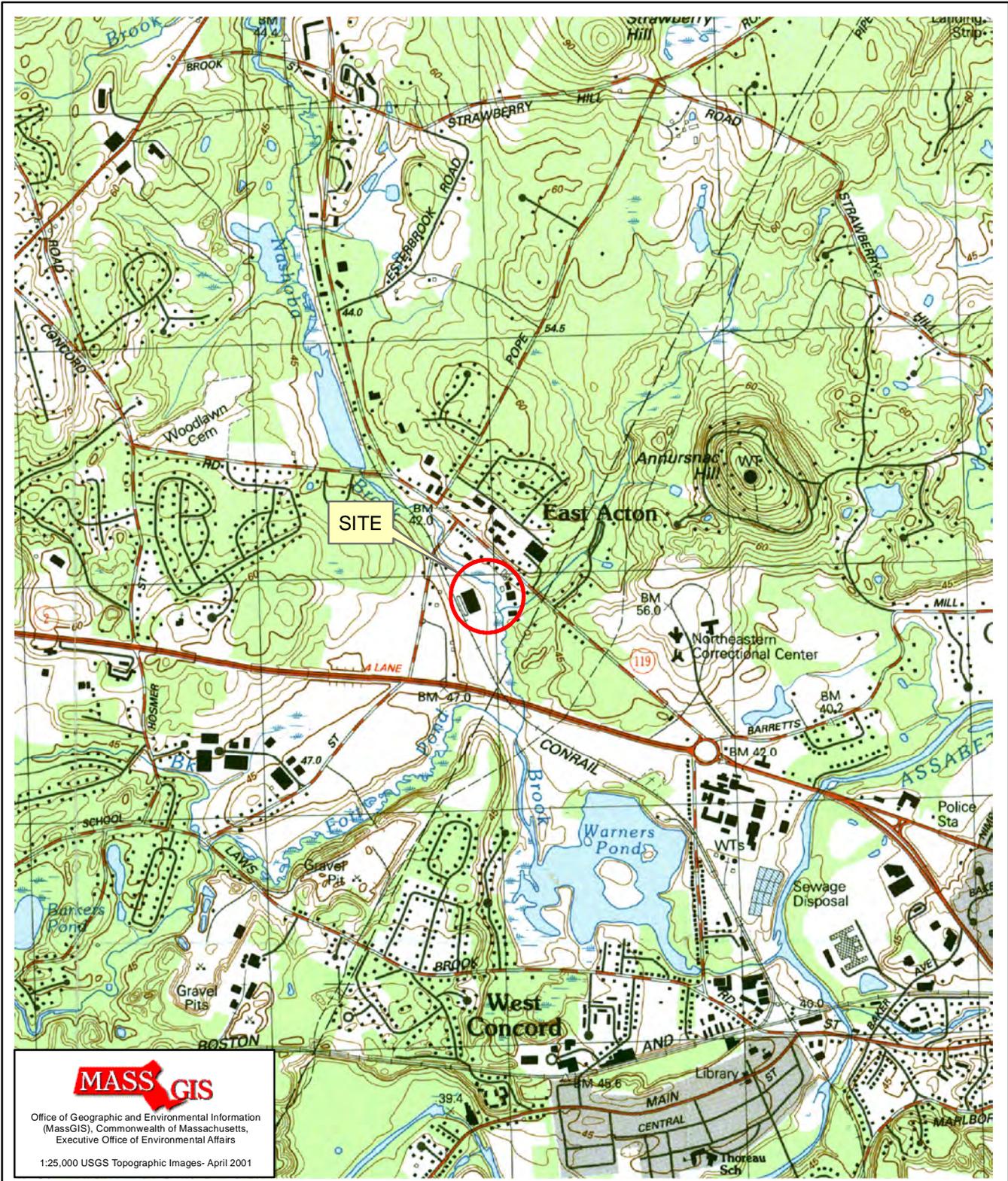
Board of Governors
Pillar House I Condominium Association
P. O. Box 2144
Acton, MA 01720

Attachment B

Locus Maps

Figure 1: USGS Topographic Quadrangle

Figure 2: FEMA Flood Insurance Rate Map



MASS GIS

Office of Geographic and Environmental Information
 (MassGIS), Commonwealth of Massachusetts,
 Executive Office of Environmental Affairs
 1:25,000 USGS Topographic Images- April 2001

LEC

LEC Environmental Consultants, Inc.
 100 Grove Street, Suite 302
 Worcester, MA 01605
 508 753 3077; 508 753 3177 Fax
 lecenvironmental.com

nationalgrid

Figure 1: USGS Topographic Map
 Proposed Gas Line Installation
 Teamworks Acton
 30 Great Road
 Acton, MA

Approximate Scale 1"= 2,000'



June 9, 2014



Town of Acton
250176

Federal Emergency Management Agency
National Flood Insurance Program
Flood Insurance Rate Map
Middlesex County

Map Numbers 25017C0356E
effective dates June 4, 2010

LEC
LEC Environmental Consultants, Inc.
100 Grove Street, Suite 302
Worcester, MA 01605
508 753 3077; 508 753 3177 Fax
leceenvironmental.com

nationalgrid

Figure 2: FEMA Flood Insurance Rate Map
Proposed Gas Line Installation
Teamworks Acton
30 Great Road
Acton, MA

Approximate Scale: 1"=500'



June 9, 2014

Attachment C

Proposed Gas Line Installation, dated June 9, 2014,
prepared by LEC Environmental Consultants, Inc.

Bridge Crossing Drawing, Service for 30 Great Road, Acton, MA,
2 sheets, dated May 6, 2014, prepared by National Grid

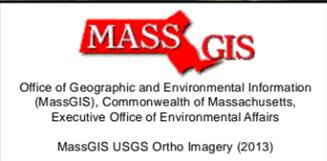
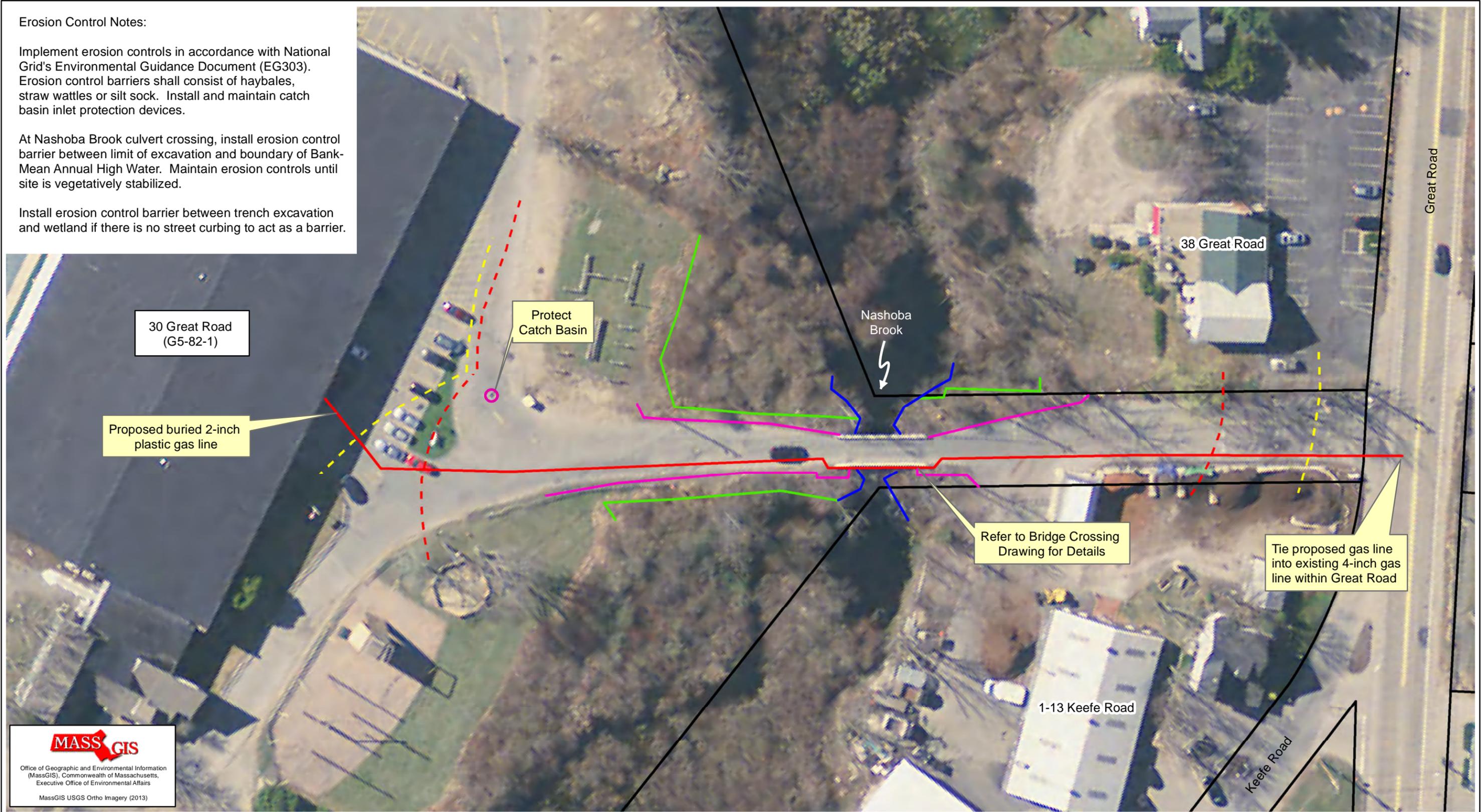
Typical Pipe Installation Trench Detail and Notes

Erosion Control Notes:

Implement erosion controls in accordance with National Grid's Environmental Guidance Document (EG303). Erosion control barriers shall consist of haybales, straw wattles or silt sock. Install and maintain catch basin inlet protection devices.

At Nashoba Brook culvert crossing, install erosion control barrier between limit of excavation and boundary of Bank-Mean Annual High Water. Maintain erosion controls until site is vegetatively stabilized.

Install erosion control barrier between trench excavation and wetland if there is no street curbing to act as a barrier.

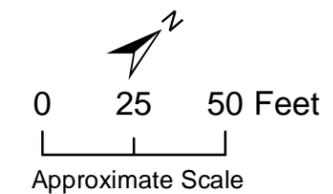


LEC
 LEC Environmental Consultants, Inc.
 100 Grove Street, Suite 302
 Worcester, MA 01605
 508 753 3077; 508 753 3177 Fax
 lecenvironmental.com



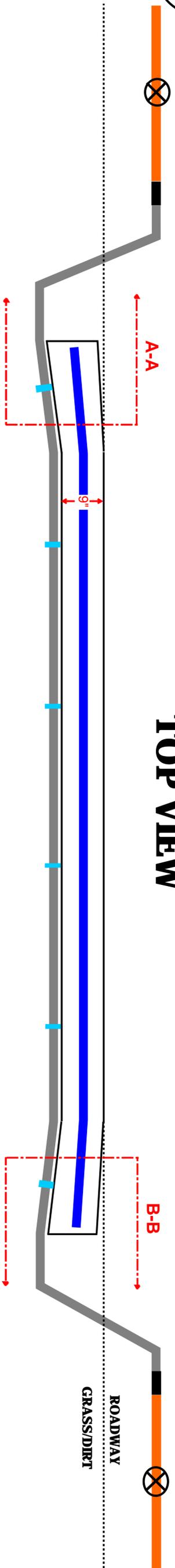
Approximate Location of:

- Boundary of Bordering Vegetated Wetland
- Boundary of Bank-MAHW
- - - 200-Foot Riverfront Area
- - - 100-Foot Buffer Zone
- Proposed 2-inch Plastic Gas Line
- Erosion Control Barrier



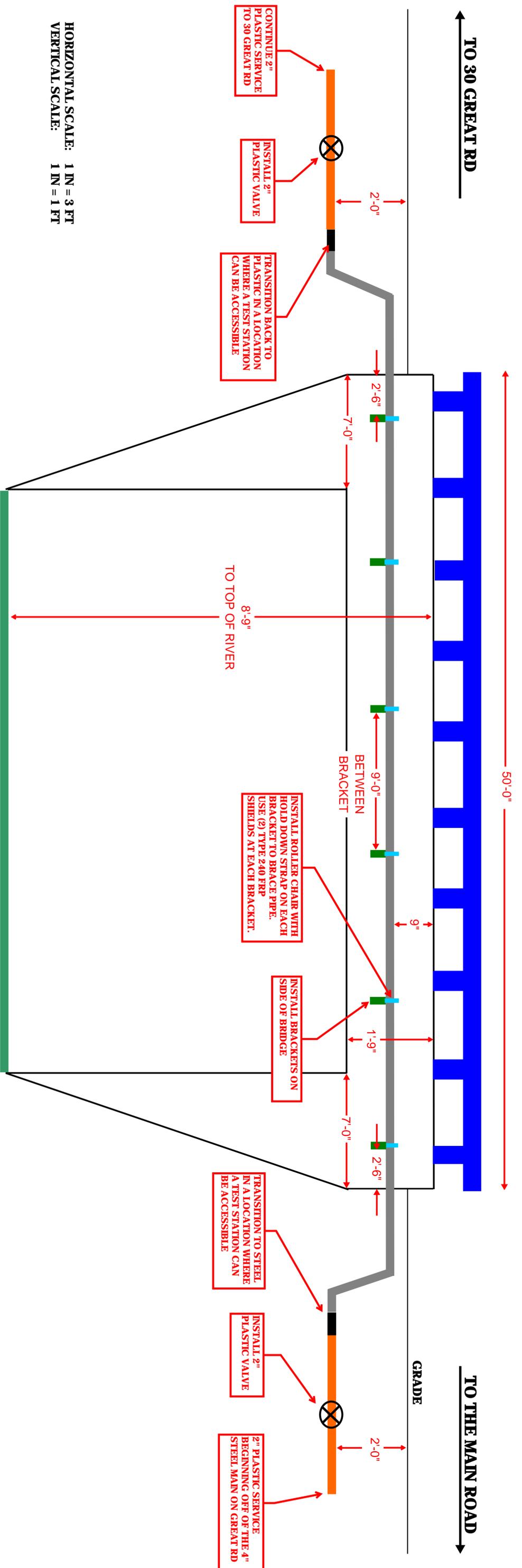
Proposed Gas Line Installation
 Teamworks Acton
 30 Great Road
 Acton, Massachusetts

June 9, 2014



CORROSION NOTES:
 INSTALL 2-WIRE TEST STATION WITH 4-17# ANODES AT EACH PLASTIC-STEEL TRANSITION

SIDE VIEW



HORIZONTAL SCALE: 1 IN = 3 FT
VERTICAL SCALE: 1 IN = 1 FT

Install service on the side of a bridge over a river at 30 Great Rd in Acton. Install 2" PL on both sides of the culvert and transition to 2" CS to cross the culvert.

Engineer: Brad Marx (781-382-8906)

NO.	DESCRIPTION	DATE	DR BY	CK BY	APP BY

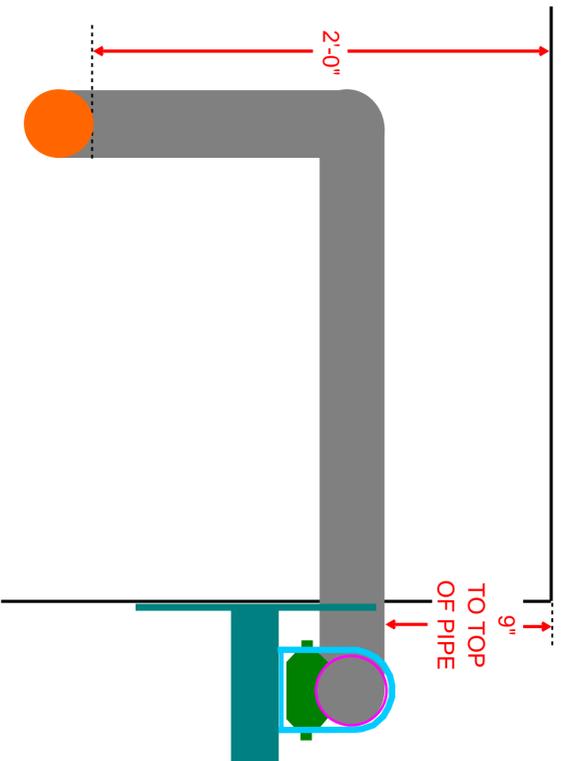
nationalgrid
 40 STELVAN RD.
 WALTHAM, MA 02451

SCALE:	DRAWN BY:	DATE:	CORROSION:	APPROVED BY:	CAAD NO.:
	BRAD MARX	05/08/2014			

SHEET 1 OF 2
 DRAWING NO. **ACT 943993**

SERVICE FOR 30 GREAT RD ACTON, MA BRIDGE CROSSING DRAWING

SECTION A-A

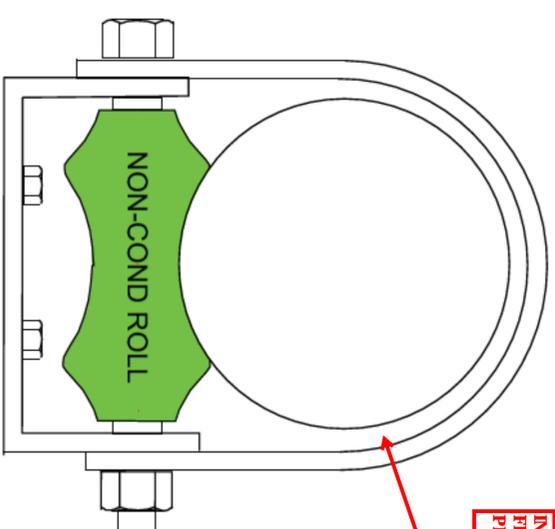


ROLLER CHAIR WITH HOLD DOWN STRAP

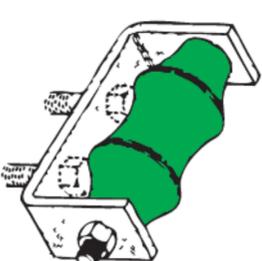
GB-1

ROLLER CHAIR

GBB

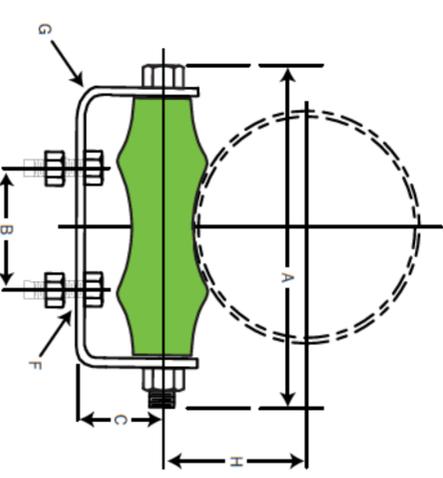


INCLUDE (2) 2" TYPE 240 FRP SHIELDS BETWEEN PIPE AND STRAP



ROLLER CHAIR INCLUDES:

- 1 STEEL BASE
 - 1 ROLL AXLE & NUTS
 - 2 BOLTS & NUTS
 - 1 CAST IRON ROLL (OMIT WHEN ORDERING NON-CONDUCTIVE ROLLER)
- SPECIFICATIONS MAY VARY - All Dimensions in inches

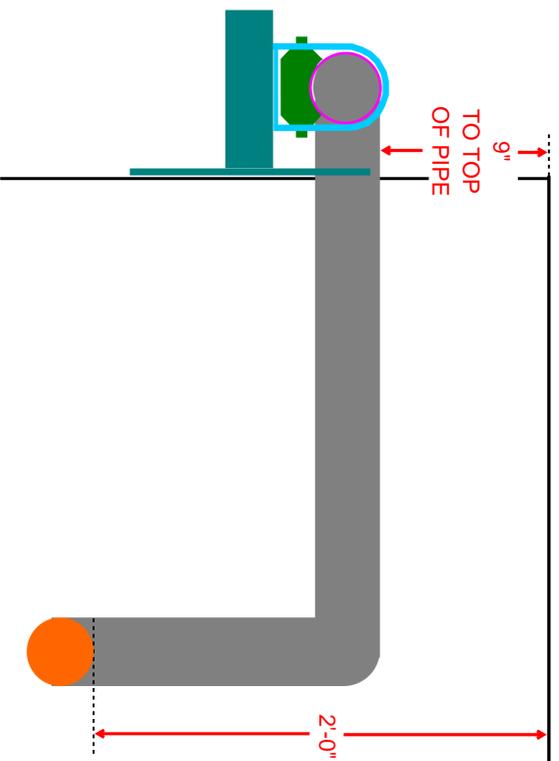


Pipe Size	Wt. lbs/ea.	A	*B	C	Bolt Size F	Steel Size G	H	Max. Load lbs.	Axle Size
2	1.1	4	1 1/4	1 1/2	3/8 X 1 1/2	1/4 X 1 1/4	1 5/8	300	3/8

SPECIAL ROLLER CHAIR W/HOLD DOWN STRAP
INCLUDES: 1 - STEEL BASE
1 - SPECIAL AXLE W/NUTS
1 - HOLD DOWN STRAP

NOTE: NO DRAWINGS ON THIS PAGE ARE TO SCALE

SECTION B-B



BRACKET Figure 83

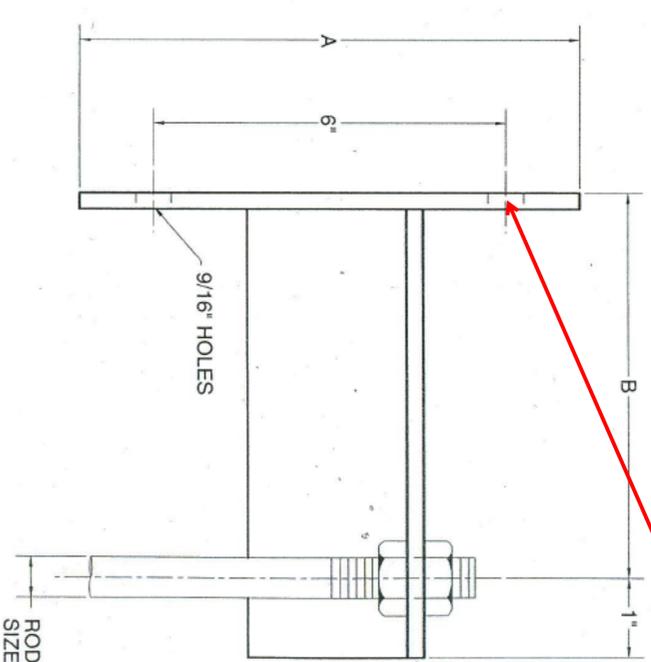
This bracket is used on light duty applications. Dimension "B" can be changed upon request.

Material: Steel.
Finish: Plain, Electro-Galvanized, Hot-Dip Galvanized.
Ordering: Specify bracket size, figure number, and finish.

FIGURE 83 - BRACKET

SIZE	MAX. LOAD	A	B	MAX. ROD SIZE	WGT. EACH
1	610	8	4	1/2	2.7
1	2714	203	102	M12	1.2
2	610	8	6	1/2	3.2
2	2714	203	152	M12	1.5
3	610	8	9	1/2	4.4
3	2714	203	229	M12	2.0

FASTEN BRACKETS TO BRIDGE USING 1/2" X 5-1/2" WEDGE ANCHORS. USE A7 ACRYLIC ADHESIVE FOR ADDED BOND STRENGTH.



Install service on the side of a culvert over a river at 30 Great Rd in Acton. Install 2" PL on both sides of the culvert and transition to 2" CS to cross the culvert.

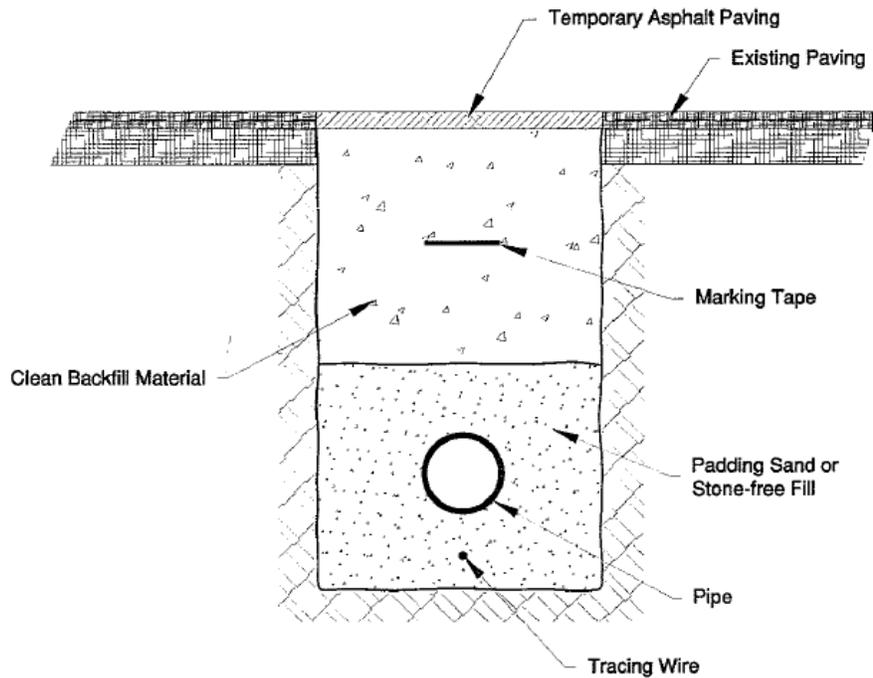
Engineer: Brad Marx (781-382-8906)

NO.	DESCRIPTION	DATE	DR BY	CK BY	APP BY

nationalgrid
40 SYLVAN RD.
WALTHAM, MA 02451

SERVICE FOR 30 GREAT RD
ACTON, MA
CULVERT CROSSING DRAWING
SCALE: DRAWN BY: BRAD MARX DATE: 05/08/2014 CORROSION: APPROVED BY: CADD NO.:

SHEET 2 OF 2
DRAWING NO. ACT 943993



PIPE INSTALLATION TRENCH - CROSS SECTION

NOTES:

1. Trench width for pipe installation shall be:
 For 2" through 4" pipe, width of 16"
 For 6" pipe, width of 18"
 For 8" pipe, width of 20"
 For 12" pipe, width of 24"
 For 16" and larger pipe, width as assigned by Engineering.
2. Minimum cover of 30" shall be maintained under normal excavating conditions; see Subsections 3203, 3205, and 3208 for guidelines in trenching in areas of rock, ledge and other obstructions.
3. Clean, suitable backfill material shall be used to pad and backfill around the pipe as outlined in Subsections 3210, 3211, and 3212.
4. Marking tape shall be installed at approximately 12" of cover, over the main as a warning.
5. A minimum of 2" temporary paving shall be used over the trench area where required.
6. Tracing wire will be installed at the bottom of trench for plastic pipe only.

Additional notes:

- **The pipe being used for this project is 2" plastic (Tracing wire will be necessary).**
- **The width of the trench will be 16"-18" max.**
- **The minimum cover is 30" per the above drawing but we generally install with 36" of cover if we can.**
- **All new mains shall maintain a clearance of at least 12 inches from any other underground facilities.**

Attachment D

Site Photographs

Request for Determination of Applicability
Gas Line Installation
30 Great Road
Acton, MA
Site Photographs (5/5/2014)



View of Nashoba Brook and south side of bridge beneath driveway to 30 Great Road. Minimal cover above culvert precludes gas line from being buried within road deck. Gas line to be attached to concrete face of bridge.



View of vegetated shoulder on west side of bridge. Approximate location of limit of work/erosion controls in red and gas line in yellow.

Request for Determination of Applicability
Gas Line Installation
30 Great Road
Acton, MA
Site Photographs (5/5/2014)



View of vegetated shoulder on east side of bridge. Approximate limit of work/erosion controls in red and gas line in yellow.



Westerly view of driveway from Great Road. Approximate location of proposed gas line in yellow and erosion controls in red.



View of driveway on west side of bridge. Approximate location of gas line in yellow and erosion controls in red.

Attachment E

Erosion Control Details
Haybales (non embedded)
Straw Wattles
Catch Basin Inlet
Silt Soxx
Dewatering Basin (small scale)
Dirt Bag

SUBJECT

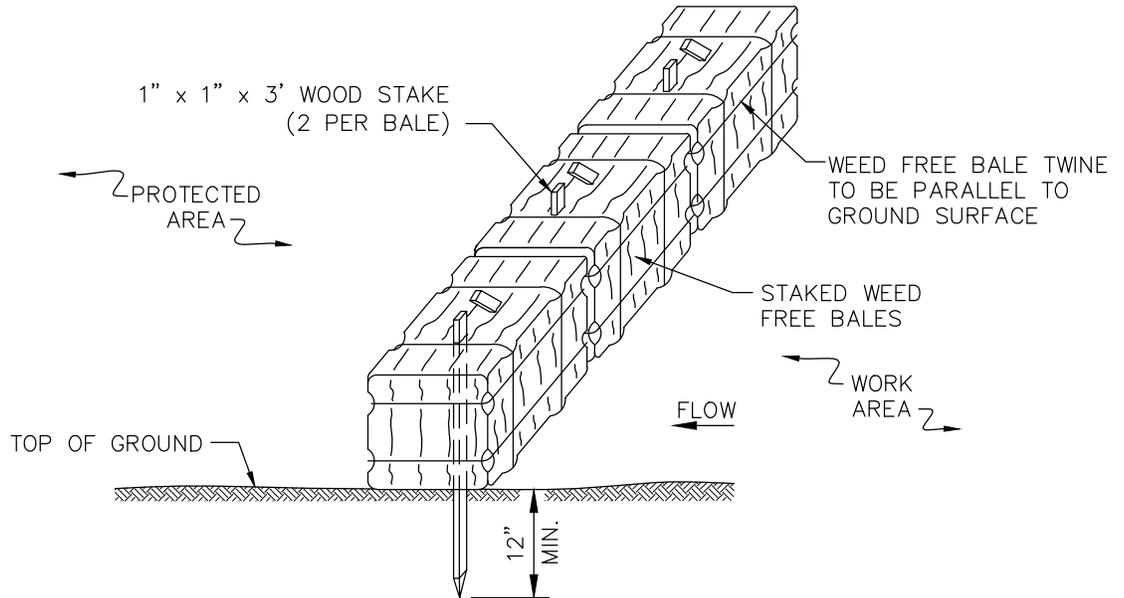
Access, Maintenance and Construction
Best Management Practices

Reference

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

BMP DETAIL

SCALE: NONE



BMP PICTURE



BMP # 1
WEED FREE BALE BARRIER

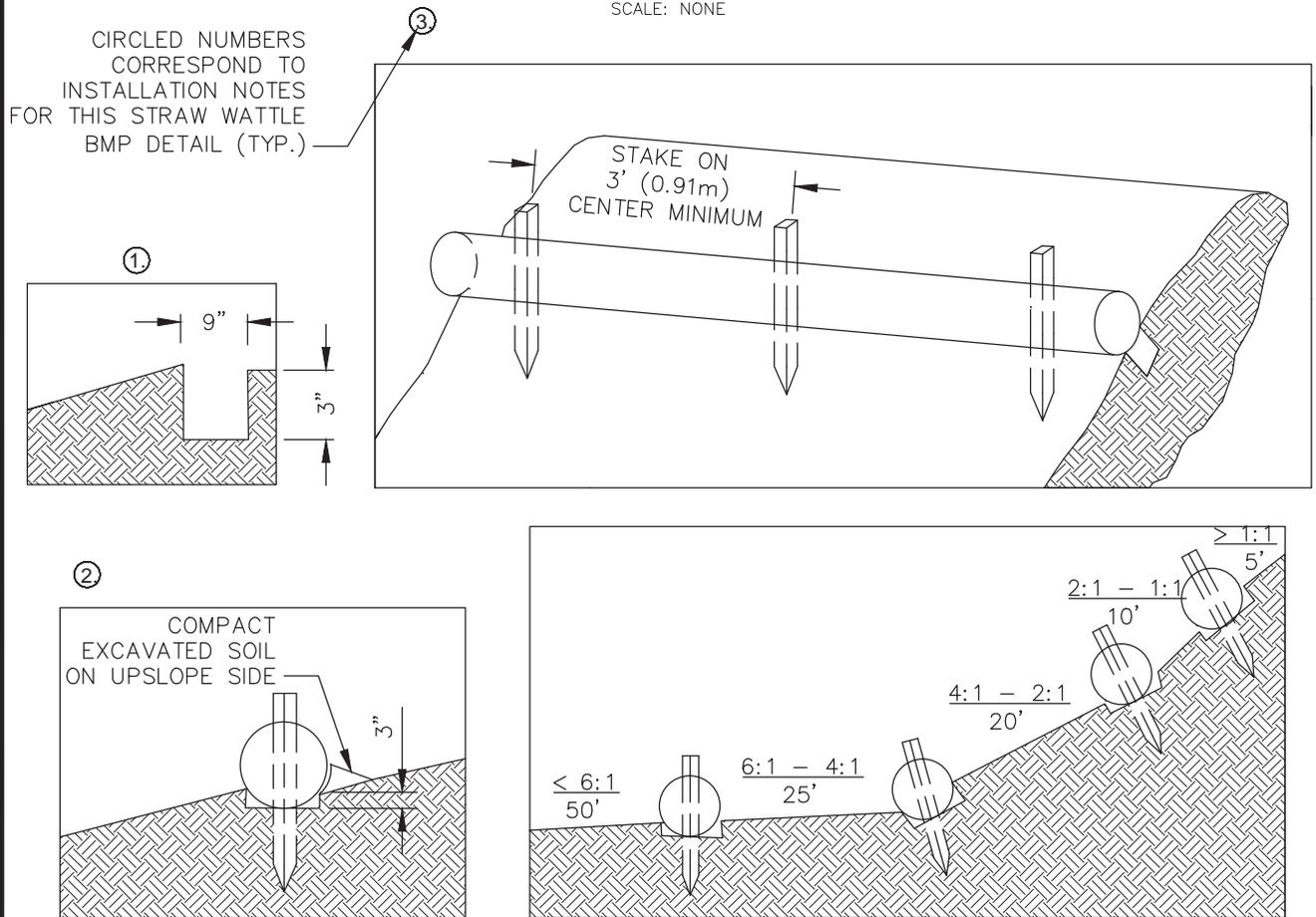
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SUBJECT
Access, Maintenance and Construction
Best Management Practices

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.

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" 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.

* PICTURE AND DETAIL PROVIDED BY TENSAR NORTH AMERICAN GREEN
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BMP # 5
STRAW WATTLE
 (PAGE 1 OF 2) *

SUBJECT

Access, Maintenance and Construction
Best Management Practices

Reference

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Protection (Chapter 6)

BMP PICTURE



File: Straw_Wattle.dwg

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BMP # 5
STRAW WATTLE
(PAGE 2 OF 2) *

SUBJECT

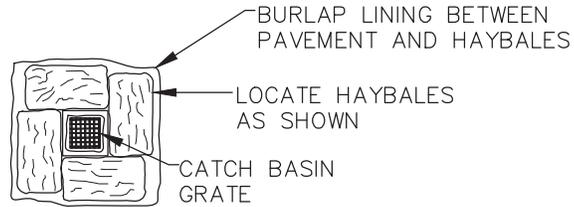
Access, Maintenance and Construction
Best Management Practices

Reference

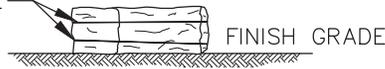
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE



TIE HAYBALES TOP &
BOTTOM WITH 14
GAUGE WIRE



NOTES:

1. SURROUND STREET DRAINAGE STRUCTURE INLET WITH HAY BALES PRIOR TO CONSTRUCTION AND MAINTAIN UNTIL CONSTRUCTION IS COMPLETED. ACCUMULATED SEDIMENTS SHALL BE REMOVED.
2. HAYBALES PLACED ON PAVEMENT SHALL HAVE BURLAP PLACED BETWEEN PAVEMENT AND HAYBALE

BMP PICTURE



File: CB_Inlet_Protection.dwg

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BMP # 37
CATCH BASIN INLET PROTECTION

SUBJECT

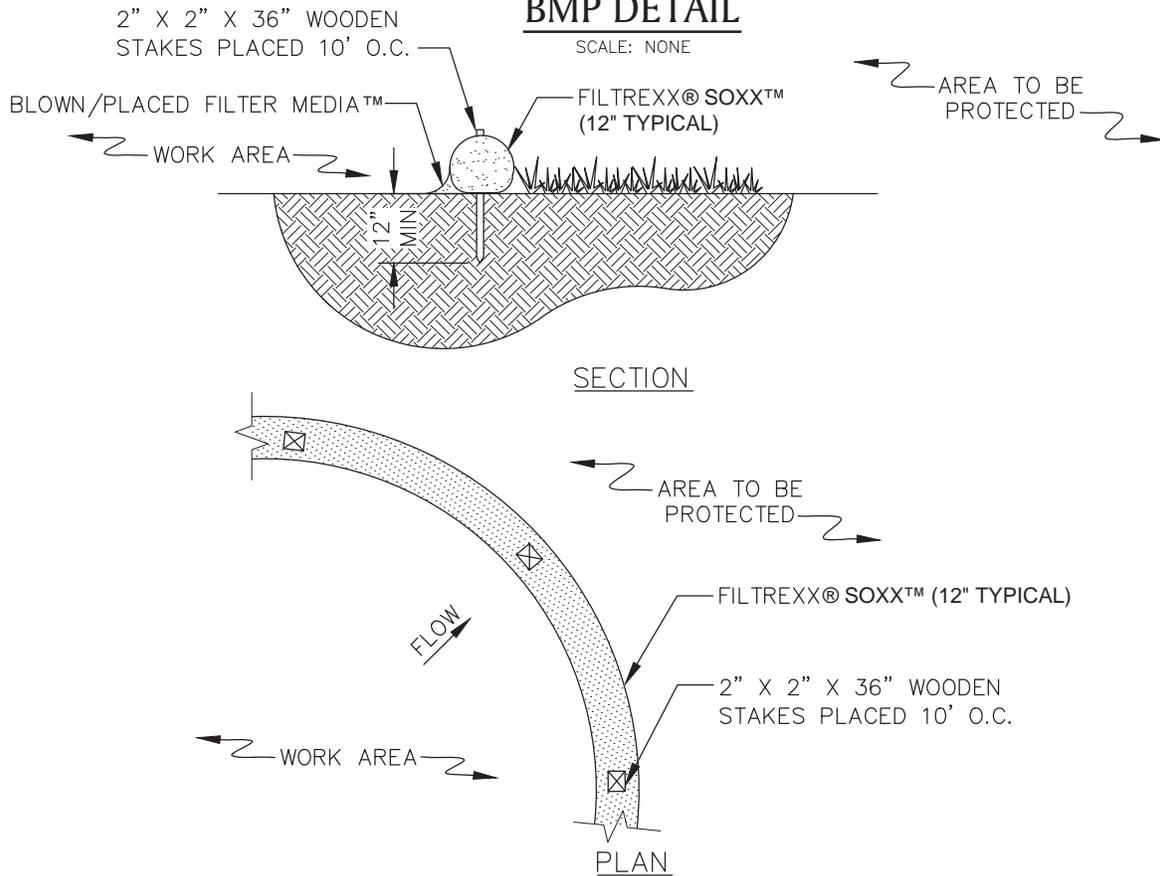
Access, Maintenance and Construction
Best Management Practices

Reference

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

BMP DETAIL

SCALE: NONE



NOTES

1. PRODUCT TO BE 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. 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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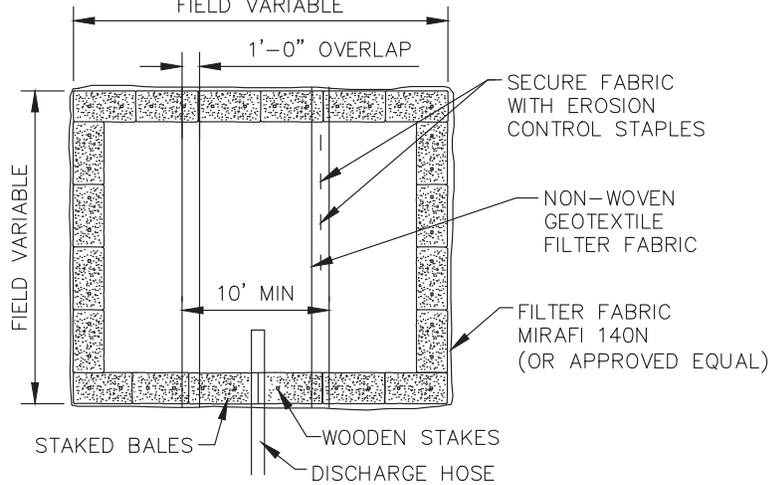
BMP # 4
SILT SOXX *

SUBJECT
Access, Maintenance and Construction
Best Management Practices

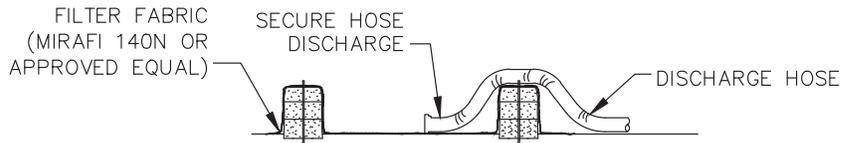
Reference
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE
FIELD VARIABLE



PLAN VIEW



CROSS-SECTION

NOTES:

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

BMP PICTURE



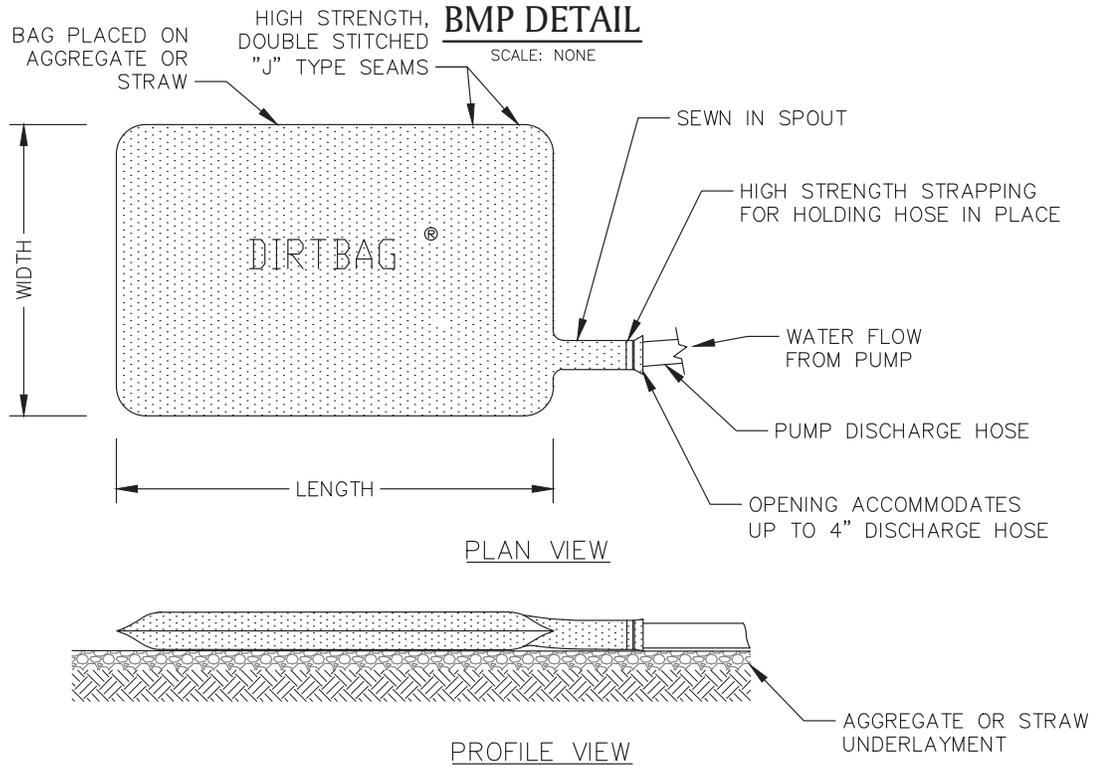
BMP # 28
DEWATERING BASIN
(SMALL SCALE)

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Doc. No.	EG-303NE
Page: 3-30	Rev. No. 0
Date	08/08/12

SUBJECT
Access, Maintenance and Construction
Best Management Practices

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



BMP PICTURE



File: Dirtbag.dwg

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BMP # 30
DIRTBAG *