

NOTICE OF INTENT

WATER MAIN REPLACEMENT

ARLINGTON STREET/ ACTON

SUBMITTED ON BEHALF OF:

Acton Water District
P.O. Box 953
Acton, MA 01720

SUBMITTED TO:

Acton Conservation Commission
472 Main Street
Acton, MA 01720

PREPARED BY:

Caron Environmental Consulting
PO Box 417
Westminster, MA 01473

January 2010

Massachusetts WPA Form 3—Notice of Intent (January 2010)

Attachments

Locus Map (January 2010)

Project Narrative (January 2010)

Wetland Delineation Letter (August 7, 2009)

Abutters' Lists/Abutter Notification (January 2010)

Project Plans (January 2010)

PROJECT NARRATIVE

Project Introduction and Overview

This Notice of Intent (NOI) is being filed by the Acton Water District in accordance with the Massachusetts Wetlands Protection Act (MAWPA) (M.G.L. Chapter 131, Section 40), and its implementing regulations (310 CMR 10.00) and the Acton Wetlands By-Law. This NOI is being filed for work within the 100-foot buffer zone from bordering vegetated wetlands and bank. Work is also proposed within the Riverfront Area, but is grandfathered as the project is the replacement of an existing utility line and no new areas of alteration are proposed.

The proposed project involves the replacement of a water main. Approximately 3500 feet of new water main is to be installed. All of the work will occur within the roadway or the already developed road shoulder. Directional drilling will be used to install the pipe beneath existing culverts in three locations, avoiding the need for work within any wetland areas.

Existing Conditions

The water main is to be installed along Arlington Street. Arlington Street is a paved road with grass shoulders and sidewalks in some areas. The road runs through a residential area that contains widely spaced houses. The land along the road is primarily forested or lawn.

Several areas of wetlands are located adjacent to Arlington Street, including Grassy Pond Brook. The wetlands were delineated in March of 2009 and the locations are shown on the attached site plans.

Project Impacts and Mitigation

Riverfront Area:

The 200-foot Riverfront Area from Grassy Pond Brook encompasses much of the proposed water main route. As the project involves the replacement of an existing utility line, with no new disturbance of the Riverfront Area it appears that the project is grandfathered and exempt from the Riverfront Area regulations. The proposed work, however, is in compliance with those regulations.

Buffer Zone:

Work is proposed within the buffer zone along much of the water main route. All of the work will occur in the existing road right of way and no new disturbance will be created. In three locations directional drilling will be used to install the water main beneath culverts. Staked haybales and silt fence will be installed between the work and the resource areas as shown on the site plan.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number
Document Transaction Number
Acton
City/Town

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



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

<u>Arlington Street</u>	<u>Acton</u>	<u>01720</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>N/A</u>	<u>42-29-10 N</u>	<u>71-27-51 W</u>
f. Assessors Map/Plat Number	d. Latitude	e. Longitude
	<u>N/A</u>	
	g. Parcel /Lot Number	

2. Applicant:

<u>Acton Water District</u>	<u></u>	
a. First Name	b. Last Name	
<u>693 Massachusetts Avenue; P.O. Box 953</u>		
c. Organization		
d. Street Address		
<u>Acton</u>	<u>MA</u>	<u>01720</u>
e. City/Town	f. State	g. Zip Code
<u>978-263-9107</u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

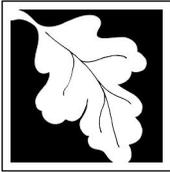
<u>N/A</u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Street Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Charles</u>	<u>Caron</u>	
a. First Name	b. Last Name	
<u>Caron Environmental Consulting</u>		
c. Company		
<u>247 Bragg Hill Road; P.O. Box 417</u>		
d. Street Address		
<u>Westminster</u>	<u>MA</u>	<u>01473</u>
e. City/Town	f. State	g. Zip Code
<u>978-874-5469</u>	<u>978-874-1790</u>	<u>caronenv@aol.com</u>
h. Phone Number	i. Fax Number	j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>Exempt</u>	<u>Exempt</u>	<u>Exempt</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

The replacement of approximately 3500 feet of water main along Arlington Street, between Hayward and Charter Roads. All of the work will occur with the currently disturbed road right of way.

7a. Project Type Checklist:

- | | |
|---|---|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input type="checkbox"/> Commercial/Industrial |
| 5. <input type="checkbox"/> Dock/Pier | 6. <input checked="" type="checkbox"/> Utilities |
| 7. <input type="checkbox"/> Coastal Engineering Structure | 8. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) |
| 9. <input type="checkbox"/> Transportation | 10. <input type="checkbox"/> Other |

7b. Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. Yes No If yes, describe which limited project applies to this project:

10.53 (3) d (there is no need to claim this status for this project)

2. Limited Project

8. Property recorded at the Registry of Deeds for:

N/A

a. County

b. Certificate # (if registered land)

c. Book

d. Page Number

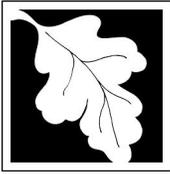
B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input checked="" type="checkbox"/> Riverfront Area	Grassy Pond Brook	
	1. Name of Waterway (if available)	

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: Grandfathered square feet

4. Proposed alteration of the Riverfront Area:

<u>No New Disturbance</u>		
a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.

- 5. Has an alternatives analysis been done and is it attached to this NOI? Yes No
- 6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings		
	a. number of new stream crossings	b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

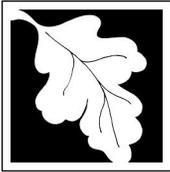
1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/priority_habitat/online_viewer.htm.

a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
Route 135, North Drive
Westborough, MA 01581**

October 2008

b. Date of map



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C. Other Applicable Standards and Requirements (cont'd)

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.C, and include requested materials with this Notice of Intent (NOI); OR complete Section C.1.d, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

1. c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____ percentage/acreage
 - (b) outside Resource Area _____ percentage/acreage
2. Assessor's Map or right-of-way plan of site
3. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work ***
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site
 - (c) MESA filing fee (fee information available at: http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm).
Make check payable to "Natural Heritage & Endangered Species Fund" and **mail to NHESP** at above address
Projects altering 10 or more acres of land, also submit:
 - (d) Vegetation cover type map of site
 - (e) Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)
2. Separate MESA review ongoing. _____ a. NHESP Tracking # _____ b. Date submitted to NHESP

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/dfwele/dfw/nhesp/nhesp.htm>, regulatory review tab). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
2. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. Not applicable – project is in inland resource area only

b. Yes No If yes, include proof of mailing or hand delivery of NOI to either:

South Shore - Cohasset to Rhode Island, and the Cape & Islands:

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC

4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?

a. Yes No

5. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?

a. Yes No

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?

a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
2. A portion of the site constitutes redevelopment
3. Proprietary BMPs are included in the Stormwater Management System.

b. No. Check why the project is exempt: Water Main Replacement only.

1. Single-family house

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.



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

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C. Other Applicable Standards and Requirements (cont'd)

- 2. Emergency road repair
- 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.

(see attached table of contents)

a. Plan Title	

b. Prepared By	c. Signed and Stamped by
_____	_____
d. Final Revision Date	e. Scale
_____	_____
f. Additional Plan or Document Title	g. Date
_____	_____

- 5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Provided by MassDEP:

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E. Fees

- Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

_____ 2. Municipal Check Number	_____ 3. Check date
_____ 4. State Check Number	_____ 5. Check date
_____ 6. Payor name on check: First Name	_____ 7. Payor name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

<u><i>Paul E. Curran - As Agent</i></u> 1. Signature of Applicant	<u>1/21/10</u> 2. Date
_____ 3. Signature of Property Owner (if different)	_____ 4. Date
<u><i>Paul E. Curran</i></u> 5. Signature of Representative (if any)	<u>1/21/10</u> 6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



August 7, 2009

Mr. Richard G. Protasowicki, P.E.
Wright-Pierce, Inc.
200 Brickstone Square; Suite 505
Andover, MA 01810

Re: Wetland Delineation
Arlington Street/Acton

Dear Mr. Protasowicki:

As requested, we have delineated the wetlands along Arlington Street in Acton between Freedom Farme Road and Hayward Road. The delineation was conducted on March 31, 2009 and was based on observations of the plant communities and soil conditions.

The edges of wetlands were delineated with blue flagging labeled A1 to A10, B1 to B4, C1 to C5, D1 to D8, E1 to E3, F1 to F5, G1 to G8, H1 to H19, I1 to I6, J1 to J3, K1 to K7, L1 to L8, M1 to M6 and N1 to N13. In addition, there are wetlands located behind houses or within lawn and landscaped areas in three locations where we did not feel it was appropriate to place flags. In these areas the wetlands appear to be far enough from the road that accurate locations are not necessary, and the surveyors should be able to estimate the location of the wetlands. These locations are behind House #133, near the Arlington Street/Haywood Road intersection behind House #156 and behind Houses # 98 and 100.

The wetland flags are primarily located along the edge of bordering vegetated wetlands. Most of the delineated wetlands border on Grassy Pond Brook, which crosses Arlington Street in multiple locations. Grassy Pond Brook is a perennial stream, and as such, has a Riverfront Area along it. As the proposed work is for the replacement of a water main the Riverfront Area should not have any regulatory impact.

The cover types in both the wetlands and uplands are variable. Most of the wetlands are forested, but there are areas of shrubs, herbaceous vegetation and open water. The cover types in the uplands include forest, lawn, paved areas, brushland and field. The most abundant species in the wetlands include red maple, American elm, slippery elm, swamp white oak, European buckthorn, arrow-wood, speckled alder, elderberry, swamp dogwood, highbush blueberry, winterberry, swamp rose, poison ivy, tussock sedge, reed canary grass, *Phragmites*, cattails, purple loosestrife, cinnamon fern and skunk cabbage. While the soil conditions are variable, the wetland soils generally have an 8-inch deep organic horizon with a Munsell Soil Color of 10 YR 2/1. The underlying Bg-horizon has a color of 10 YR 6/1.

The dominant species observed in the uplands include red oak, scarlet oak, white oak, black oak, red maple, white pine, quaking aspen, black cherry, European buckthorn, arrow-wood, multiflora rose, Morrow honeysuckle, yews, poison ivy, goldenrods and hay-scented fern. In many of the locations along the road the soils are udorthents (human disturbed or deposited soils). In the more natural areas the upland soils typically have a 4-inch deep A-horizon with a color of 10 YR 3/2. The underlying Bw-horizon extends to a depth of at least 16 inches and has a color of 10 YR 5/4.

August 7, 2009
Mr. Richard G. Protasowicki, P.E.
Wright-Pierce, Inc.
Re: Wetland Delineation
Arlington Street/Acton
Page 2.

The 13th Edition of the Natural Heritage Atlas does not show any Estimated/Priority Habitat Areas or Certified Vernal Pools near the site.

If you should have any questions in regards to this matter, please feel free to contact us.

Very truly yours,
CARON ENVIRONMENTAL CONSULTING,
By;

Charles E. Caron

**NOTIFICATION TO ABUTTERS
UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT
AND THE TOWN OF ACTON WETLANDS BYLAW**

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

The Applicant: Acton Water District

Address P.O. Box 953, Acton, MA 01720 Phone 978-263-9107

has filed a Notice of Intent with the Acton Conservation Commission seeking permission to remove, fill, dredge or alter an Area Subject to Protection under the Wetlands Protection Act.

Applicant's Representative: Caron Environmental Consulting

Address P.O. Box 417, Westminster, MA 01473 Phone 978-874-5469

The address of the property where the activity is proposed Arlington Street between Freedom Farme Road and Hayward Road

Town Atlas Plate/Map N/A Parcel/Lot N/A

Project Description Replacement of a water main within the road right of way.

Copies of the Notice of Intent may be examined at the Conservation Office, Acton Town Hall, 472 Main Street, Acton between the hours of 9:00 A.M. and 4:30 P.M. Monday through Friday. For more information please call the Conservation Office at 978-264-9631.

A Public Hearing will be held at the Acton Town Hall, 472 Main Street, on Wednesday,
February 3, 2010 at 7:45 P.M.
(date)

The notice of the public hearing will be published at least five (5) days in advance in the Acton edition of the *Beacon* newspaper or *Metrowest Daily News*.

NOTE: You may also contact your local conservation commission or the nearest Department of Environmental Protection Regional Office* for the information about this application or, the Wetlands Protection Act. Acton is in the Central Region. To contact DEP, call:

***DEP Central Region: 508-792-7650
627 Main Street, Worcester MA 01608**



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

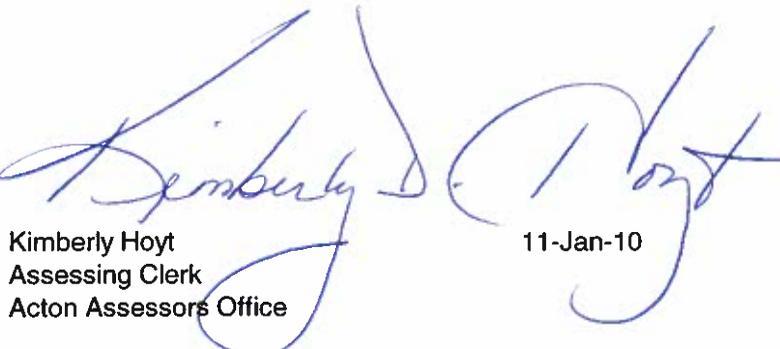
Brian McMullen
 Assistant Assessor

Locus: Arlington St (between Freedom Farm and Hayward Rd)
Parcel ID: E2

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
1 FREEDOM FARME RD	E2-31-18	LOWE RUSSELL M	LOWE PAMELA F	1 FREEDOM FARM RD	ACTON	MA	01720
16 FREEDOM FARME RD	E2-31-20	SOUSA STEPHEN A	SUSAN E	16 FREEDOM FARME RD	ACTON	MA	01720
14 FREEDOM FARME RD	E2-31-21	THOMPSON SALLY	EDWARDS SALLY	14 FREEDOM FARME RD	ACTON	MA	01720
73 ARLINGTON ST	E2-31-22	GILES MICHAEL C	GILES KAREN L	73 ARLINGTON ST	ACTON	MA	01720
2 FREEDOM FARME RD	E2-31-23	MAJORS MICHAEL F	MAJORS MARTHA M	2 FREEDOM FARME RD	ACTON	MA	01720
89 ARLINGTON ST	E2-120	ROMAN CATHOLIC ARCHBISHOP	OF BOSTON	87-93 ARLINGTON STREET	ACTON	MA	01720
86 ARLINGTON ST	E2-151	AUTHENTIC HOMES		PO BOX 985	ACTON	MA	01720
90 ARLINGTON ST	E2-151-1	NORDHAUSEN SUSAN C		92 ARLINGTON ST.	ACTON	MA	01720
100 ARLINGTON ST BESIDE	E2-151-2	PARKER DAWN		100 ARLINGTON ST	ACTON	MA	01720
104 CHARTER RD	E2-151-3	CRONIN FRANCIS J	HARRIET	104 CHARTER RD	ACTON	MA	01720
102 CHARTER RD	E2-151-4	HART WILLIAM H	HART SUSAN M	102 CHARTER RD	ACTON	MA	01720
78 ARLINGTON ST	E2-151-5	OLNEY ROBERT L	OLNEY DENISE ADAMS	78 ARLINGTON ST	ACTON	MA	01720
78 ARLINGTON ST BESIDE	E2-151-7	OLNEY ROBERT L	OLNEY DENISE ADAMS	78 ARLINGTON ST	ACTON	MA	01720
12 KENNEDY LN	E2-151-8	JEANSON DEBRA		12 KENNEDY LANE	ACTON	MA	01720
10 KENNEDY LN	E2-151-9	KENNEDY REALTY CO	C/O MICHAEL JEANSON	12 KENNEDY LN	ACTON	MA	01720
9 PERKINS LN	E2-197-4	TABNER JAMES V		9 PERKINS LN	ACTON	MA	01720
3 AGAWAM RD	E2-198	SIMPSON KENNETH TRUSTEE	SIMPSON KENNETH AND BERNICE	3 AGAWAM RD	ACTON	MA	01720
97 ARLINGTON ST	E2-199	MELEEDY FRANK J	BARBARA	97 ARLINGTON ST	ACTON	MA	01720
92 ARLINGTON ST	E2-200	NORDHAUSEN JUERGEN H	SUSAN	92 ARLINGTON STREE	ACTON	MA	01720
4 AGAWAM RD	E2-208	HUSZAR DENNIS I	C/O KAZMOUSKI SARAH T + KAZM	4 AGAWAM RD	ACTON	MA	01720
1 AGAWAM RD	E2-209	LIAU ANNIE S		1 AGAWAM RD	ACTON	MA	01720
94 ARLINGTON ST	E2-210	HUSZAR DENNIS		94 ARLINGTON ST	ACTON	MA	01720
105 ARLINGTON ST	E2-220	WALTERS JAMES C + MILDRED	C/O WALTERS MARY ELLEN TRUS	MILDRED B WALTERS IRREVOC	ACTON	MA	01720
98 ARLINGTON ST	E2-221	MURPHY PETER J	MURPHY GWEN P	98 ARLINGTON ST	ACTON	MA	01720
100 ARLINGTON ST	E2-227	PARKER DAWN		100 ARLINGTON ST	ACTON	MA	01720
117 ARLINGTON ST	E2-233	MALSON DORIS J	MALSON CAROL E	117 ARLINGTON ST	ACTON	MA	01720
110 ARLINGTON ST	E2-237	FECHER RICHARD J	YEN DEBORAH J	6 KENNEDY LN	ACTON	MA	01720
1 KENNEDY LN	E2-237-1	MAGASANIK JOANN L		1 KENNEDY LN	ACTON	MA	01720
4 KENNEDY LN	E2-237-8	WHITEHEAD RAY B	WHITEHEAD DEBORAH A	4 KENNEDY LANE	ACTON	MA	01720
118-124 ARLINGTON ST	E2-237-9	WHITEHEAD RAY B	WHITEHEAD DEBORAH A	4 KENNEDY LANE	ACTON	MA	01720

36 AGAWAM RD	E2-245	LOWE JOHN M	ELIZABETH	36 AGAWAM ROAD	ACTON	MA	01720
133 ARLINGTON ST	E2-246	DYER THOMAS J	DYER CATHLEEN K	133 ARLINGTON ST	ACTON	MA	01720
40 AGAWAM RD	E2-251-1	GREENLAND JOHN S JR	GREENLAND MIRA D	40 AGAWAM RD	ACTON	MA	01720
132 ARLINGTON ST	E2-261	RIVERO HUGO	RIVERO MARIA	132 ARLINGTON ST	ACTON	MA	01720
130 ARLINGTON ST	E2-261-4	KAHANE ERNEST S	KAHANE JANET K	130 ARLINGTON ST	ACTON	MA	01720
34 ELM ST	E2-264	ORCUTT CHARLES E JR	CORRINE	34 ELM STREET	ACTON	MA	01720
151 ARLINGTON ST	E2-264-1	SCHUTSKY BRIAN L	BEEBE LISA E	151 ARLINGTON ST	ACTON	MA	01720
149 ARLINGTON ST	E2-264-2	MOZZICATO NICHOLAS J	DEBORAH S	149 ARLINGTON STREET	ACTON	MA	01720
134 ARLINGTON ST	E2-265	BENNETT EDWARD M ET UX TR	EMB REALTY TRUST	135 HAYWARD ROAD	ACTON	MA	01720
153 ARLINGTON ST	E2-270	GILLESPIE AGNES VIRGA		153 ARLINGTON ST	ACTON	MA	01720
150 ARLINGTON ST	E2-271	BENNETT EDWARD	SUSAN D	135 HAYWARD RD	ACTON	MA	01720
143 HAYWARD RD	E2-278	BENNETT EDWARD M ET UX TR	EMB REALTY TRUST	135 HAYWARD ROAD	ACTON	MA	01720
101 CHARTER RD	E3-83	CROFTON DELORES	MACDONALD FRASER D	101 CHARTER RD	ACTON	MA	01720
72 ARLINGTON ST	E3-83-1	TOBACCO JODI L		72 ARLINGTON ST	ACTON	MA	01720
103 CHARTER RD	E3-83-2	HOLBROOK SCOTT A	HOLBROOK SALLY M	103 CHARTER RD	ACTON	MA	01720
170 ARLINGTON ST	F2-22	ENGLEY LISA L		170 ARLINGTON ST	ACTON	MA	01720
165 ARLINGTON ST	F23.A-8	CORBETT DAVID C	CORBETT SARAH M	7 ALBION PLACE #2	CHARLESTOWN	MA	02129

The owner of land sharing a common boundary or corner with the site of the proposed activity (Immediate) 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.



 Kimberly Hoyt
 Assessing Clerk
 Acton Assessors Office

11-Jan-10

GENERAL NOTES:

- 1. THE LOCATIONS OF ALL EXISTING DRAINS, SEWERS, WATER MAINS, POWER LINES, TELEPHONE CABLES AND OTHER UTILITIES ARE APPROXIMATE ONLY. FIELD LOCATIONS SHALL BE OBTAINED BY THE CONTRACTOR (BIDDER) PRIOR TO STARTING THE WORK. TEST PITS SHALL BE MADE AS NECESSARY TO VERIFY LOCATION AND DEPTH. TELEPHONE CABLES AND POWER LINES ARE NOT DELINEATED ON THE PLANS, COORDINATE LOCATION WITH UTILITY COMPANIES. IT IS UNDERSTOOD AND AGREED THAT EACH BIDDER WILL NOT RELY UPON THESE DRAWINGS FOR SUCH INFORMATION, BUT THAT EACH BIDDER SHALL MAKE EXAMINATIONS IN THE FIELD BY VARIOUS AVAILABLE METHODS AND SHALL OBTAIN INFORMATION FROM UTILITY CORPORATIONS AND INDIVIDUALS AS TO THE LOCATION OF ALL SUBSURFACE STRUCTURES.
2. NEW WATER SERVICE CONNECTIONS ARE SHOWN FOR ESTIMATING PURPOSES. THE ACTUAL LENGTH AND LOCATION SHALL BE FIELD DETERMINED AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL MAKE ALL CONNECTIONS TO THE EXISTING SERVICE PIPES. SERVICES SHALL BE 1" UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ALL TAPS SHALL BE MADE "WET" AFTER THE NEW LINE HAS BEEN TESTED AND PLACED IN SERVICE.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHERS. REFER TO SPECIFICATIONS, SECTION 01050.
4. UNDERGROUND STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATIONS SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES AND PIPELINES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNERS OF THE STRUCTURES AND PIPELINES. REFER TO SPECIFICATION SECTION 02640.
5. WATER SERVICE SHALL BE MAINTAINED TO ALL CUSTOMERS THROUGHOUT THE CONSTRUCTION PERIOD EXCEPT DURING SCHEDULED SHUTDOWNS AND DURING THE CHANGEOVER OF A CUSTOMER'S SERVICE. CUSTOMERS THAT ARE TO BE CHANGED OVER SHALL BE GIVEN 24 HOURS NOTICE PRIOR TO SHUT OFF.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL NEW WATER LINES. LAYOUT SHALL BE REVIEWED AND ACCEPTED BY THE OWNER AND THE ENGINEER. THE NEW WATER MAINS MUST BE LOCATED WITHIN THE RIGHT-OF-WAY OR EASEMENTS SHOWN ON THE DRAWINGS.
7. MINIMUM DEPTH OF COVER SHALL BE 5'-0". THE NEW MAINS SHALL GENERALLY FOLLOW THE GROUND CONTOUR, HOWEVER, ABRUPT CHANGES IN GRADE SHALL BE AVOIDED. IF LEDGE IS ENCOUNTERED THE MINIMUM DEPTH OF COVER SHALL BE 4'-6" AND MAINS SHALL BE INSULATED AS SHOWN ON THE DETAILS.
8. NEW HYDRANTS SHALL BE FIELD LOCATED BY THE OWNER.
9. NEW MAINS SHALL BE HDPE SDR___ OR DUCTILE IRON CLASS 52 AS INDICATED IN THE SPECIFICATIONS, WITH PUSH-ON JOINTS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ALL FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT CLASS 350, MINIMUM UNLESS OTHERWISE REQUIRED FOR JOINT RESTRAINT OR AS SHOWN ON THE DRAWINGS.
10. ALL BENDS, TEES, REDUCERS, HYDRANTS, AND PLUGS SHALL BE RESTRAINED BY USING CONCRETE THRUST BLOCKS AND PIPE RESTRAINER. ANCHOR TEES SHALL BE USED FOR ALL HYDRANT BRANCHES AND SPRINKLER MAINS.
11. TEST PRESSURE FOR THE COMBINED PRESSURE AND LEAKAGE TEST SHALL BE 150 PSI. TEST DURATION SHALL BE 2 HOURS, MINIMUM.
12. THE CONTRACTOR SHALL VERIFY TO HIS OWN SATISFACTION THAT ALL PERMITS HAVE BEEN OBTAINED TO COMPLETE SPECIFIED WORK.
13. THE CONTRACTOR SHALL REPAIR ALL PAVEMENT DISTURBED BY THE CONSTRUCTION WORK. THE TRENCH PATCHING SHALL BE PERFORMED AS EACH SECTION OF THE WORK IS COMPLETED AS OUTLINED IN SECTION 01010. FOR PAVEMENT REPAIRS ON TOWN ROADS, SEE THE DETAIL SHEET.
14. THE CONTRACTOR SHALL GRIND 1 INCH OF THE EXISTING ROAD SURFACE FOR THE ENTIRE WIDTH ON ROADS AND PLACE 1 INCH OF OVERLAY PAVEMENT FOR THE ENTIRE WIDTH OF THE ROADS. AT DRIVES AND WALKS, THE OVERLAY SHALL EXTEND AT LEAST 24 INCHES BEYOND THE EDGE OF THE TRAVELED WAY. THE OVERLAY SHALL BE TAPERED AS REQUIRED TO MATCH EXISTING PAVEMENT. THE OVERLAY PAVEMENT WORK SHALL BE DONE TO THE COMPLETE SATISFACTION OF THE ACTON ENGINEERING DEPARTMENT.
15. SIDEWALKS AND CURBS SHALL BE REPAIRED TO MATCH EXISTING. AT LOCATIONS WHERE SHORT SECTIONS OF THE EXISTING SIDEWALKS AND CURBS ARE DISTURBED AS WOULD BE THE CASE WITH SERVICES, THE SIDEWALKS AND CURBS SHALL BE REPLACED "IN KIND".
16. TRENCHES SHALL NOT BE LEFT OPEN DURING NON-WORKING HOURS. ALL OPEN PIPES SHALL BE SECURED WITH A WATER TIGHT PLUG WHEN THE PIPE IS TEMPORARILY BACKFILLED AND WHEN PIPE LAYING IS NOT IN PROCESS.
17. THE USE OF TEMPORARY WATER MAINS AND SERVICES WILL BE REQUIRED FOR THIS PROJECT. CONTINUOUS WATER SERVICE MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH NOTE 5. COORDINATE TIE-INS WITH THE OWNER.
18. ALL WATER MAINS THAT ARE TO BE LEFT IN PLACE SHALL BE CAPPED WITH M.J. CAP OR PLUG. WATER MAINS THAT ARE REMOVED SHALL BE DISPOSED OF AT AN APPROVED LOCATION PROVIDED BY THE CONTRACTOR.
19. THE CONTRACTOR WILL ENCOUNTER ASBESTOS CEMENT PIPE DURING EXECUTION OF THE WORK. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF OSHA AND ALL OTHER FEDERAL, STATE AND LOCAL REGULATIONS WHEN HANDLING AND/OR DISPOSING OF ASBESTOS CEMENT PRODUCTS.
20. NEW CURB STOPS SHALL BE INSTALLED IF REQUIRED AFTER INSPECTION BY THE WATER SYSTEM INSPECTOR.
21. ALL HYDRANTS, FITTINGS AND GATE VALVES REMOVED DURING THE INSTALLATION OF THE NEW WATER MAIN SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL DELIVER HYDRANTS, FITTINGS AND GATE VALVES, ETC. TO THE OWNER'S STORAGE YARD.
22. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL BENDS, FITTINGS, AND ANY AND ALL APPURTENANCES NECESSARY FOR THE COMPLETION OF THE WORK AS SHOWN HEREIN. NOT ALL BENDS AND FITTINGS REQUIRED ARE SHOWN OR CALLED OUT ON THE DRAWINGS.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED EARTH SURFACES ARE TO BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL IS TO BE IN A MANNER THAT WILL MINIMIZE EROSION. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE EXCAVATED MATERIAL AT A SITE PROVIDED BY HIM WHICH IS IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS. MATERIALS AND METHODS USED FOR TEMPORARY EROSION CONTROL SHALL BE AS SPECIFIED BY THE LOCAL EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES AND IN COMPLIANCE WITH THE LOCAL CONSERVATION COMMISSION. REFER TO SPECIFICATION SECTIONS 01050 AND 02270.
24. THE CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE TREES WITHIN THE CONSTRUCTION AREA.
25. 2-INCHES OF RIGID INSULATION SHALL BE PROVIDED BETWEEN STORM DRAINAGE PIPES AND THE WATER MAIN AS SHOWN ON THE DETAILS.
26. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.

CIVIL ABBREVIATIONS

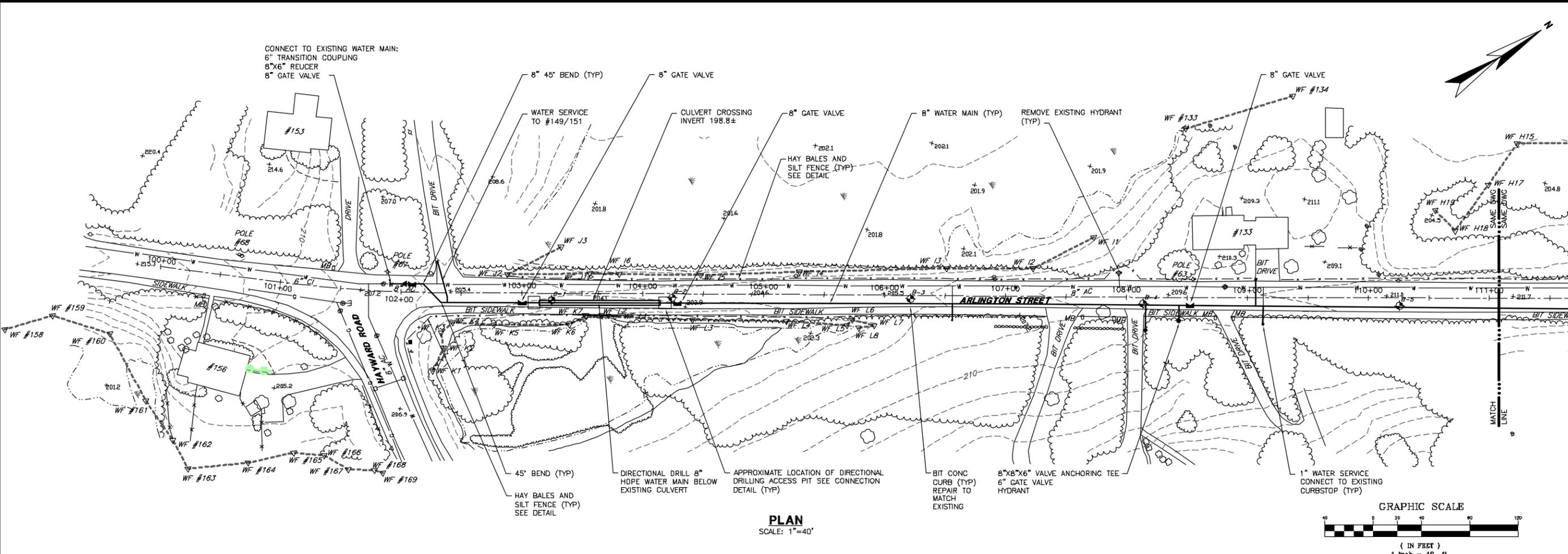
Table listing abbreviations for various civil engineering elements such as DIA (Diameter), NO (Number), APP'D (Approved), BIT (Bituminous), BLDG (Building), CB (Catch Basin), CEN (Center), CFS (Cubic Feet Per Second), CI (Cast Iron), CL (Centerline), CMP (Corrugated Metal Pipe), CO (Cleanout), CONC (Concrete), COR (Corner), CY (Cubic Yard), DEMO (Demolition), DMH (Drain Manhole), DI (Ductile Iron), DR (Drain), DWG (Drawing), EL (Elevation), EMH (Electric Manhole), FM (Force Main), FT (Feet), G (Gas), HYD (Hydrant), IN (Inch), INF (Influent), INV (Invert), LBS (Pounds), MAX (Maximum), MH (Manhole), MIN (Minimum), MW (Monitoring Well), N (North), NGVD (National Geodetic Vertical Datum), N/A (Not Available/Applicable), NTS (Not To Scale), OD (Outside Diameter), PC (Perforated Clay), PSF (Pounds Per Square Foot), PSI (Pounds Per Square Inch), PS (Primary Sludge), PT (Point of Tangency), PVC (Polyvinyl Chloride), RCP (Reinforced Concrete Pipe), RD (Roof Drain), REQ'D (Required), S (Slope, Sewer), SD (Storm Drain), SF (Square Feet), SMH (Sanitary Sewer Manhole), SQ (Square), STA (Station), T, XFMR (Transformer), TBM (Temporary Bench Mark), THK (Thickness), TOS (Top of Structure), TYP (Typical), UD (Underdrain), UG (Underground), UGE (Underground Electric), VC (Vitrified Clay), W/ (With), W (Potable Water).

LEGEND

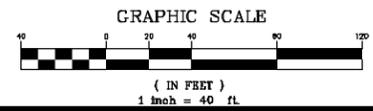
Legend table with columns for EXISTING and PROPOSED symbols. It defines symbols for PROPERTY/ROW LINE, SETBACK LINE, EASEMENT LINE, CENTERLINE, EDGE OF PAVEMENT, CURBING, EDGE OF GRAVEL, EDGE OF CONCRETE, CONTOUR, BUILDING, STONEWALL, TREELINE, CHAIN LINK FENCE, STOCKADE FENCE, BARB WIRE FENCE, RETAINING WALL, GUARDRAIL, SEWER, SEWER FORCE MAIN, GAS, WATER, STORM DRAIN, UNDERDRAIN, CULVERT, UNDERGROUND ELECTRIC, OVERHEAD ELECTRIC, IRON PIPE/REBAR, DRILLHOLE, MONUMENT, SURVEY CONTROL POINT, SPOT ELEVATION, SEWER MANHOLE, DRAINAGE MANHOLE, CATCH BASIN, ELECTRIC MANHOLE, TELEPHONE MANHOLE, SHUTOFF VALVE, WATER SERVICE SHUTOFF, YARD HYDRANT, HYDRANT, UTILITY POLE, UTILITY POLE W/ GUY, UTILITY POLE W/ LIGHT, LIGHT POLE, BOLLARD, CONFEROUS TREE, DECIDUOUS TREE, SHRUB, EDGE OF WATER, STREAM, EDGE OF WETLANDS, WETLANDS, DRAINAGE FLOW, DRAINAGE SWALE, PAVEMENT MARKINGS, SIGN, MAILBOX, TEMPORARY BENCH MARK, TEST PIT, TEST BORING, TEST PROBE, MONITORING WELL, LIMIT OF WORK, SILT FENCE, RIPRAP, RAILROAD, MATCHLINE, ROCK OUTCROP.

FOR PERMITTING PURPOSES ONLY

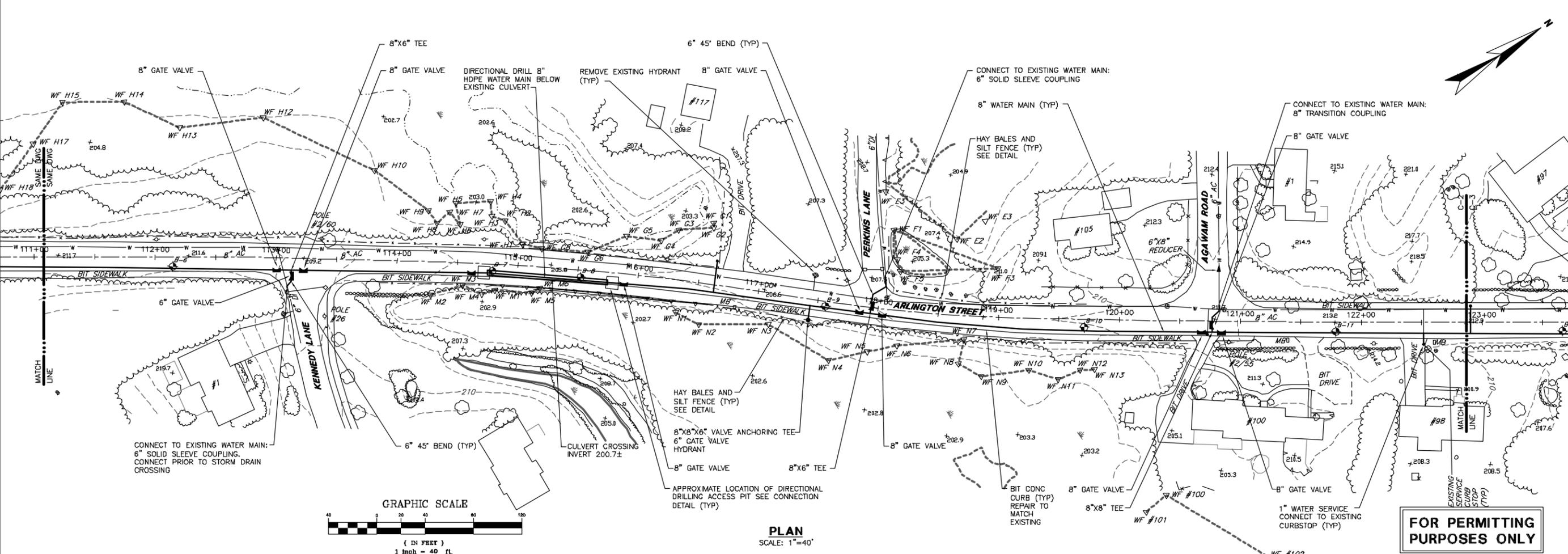
Project information and title block. Includes: ACTON WATER DISTRICT, ACTON, MASSACHUSETTS, ARLINGTON STREET, WATER MAIN REPLACEMENT. General Notes, Legend & Abbreviations. Drawing title: DRAWING C-1. Wright-Pierce logo and contact info: Engineering a Better Environment, Offices Throughout New England, 888.621.8156 | www.wright-pierce.com. Submission/Revision table with columns for DATE, APP'D, REVIEW, and SUBMISSIONS/REVISIONS.



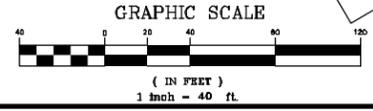
PLAN
SCALE: 1"=40'



NO.	DATE	DESCRIPTION
1	1/10	ISSUED FOR PERMITTING
2	1/10	ISSUED FOR PERMITTING
3	1/10	ISSUED FOR PERMITTING
4	1/10	ISSUED FOR PERMITTING
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PLAN
SCALE: 1"=40'

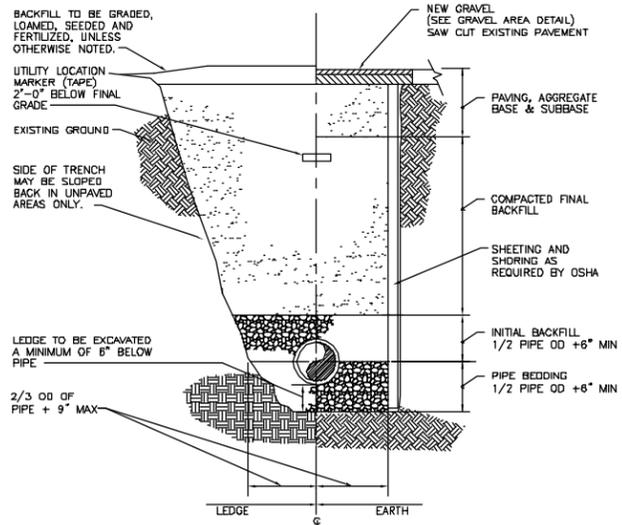


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ACTON WATER DISTRICT
ACTON, MASSACHUSETTS
ARLINGTON STREET
WATER MAIN REPLACEMENT
ARLINGTON STREET PLAN VIEWS 1
STA 100+00 TO STA 123+00

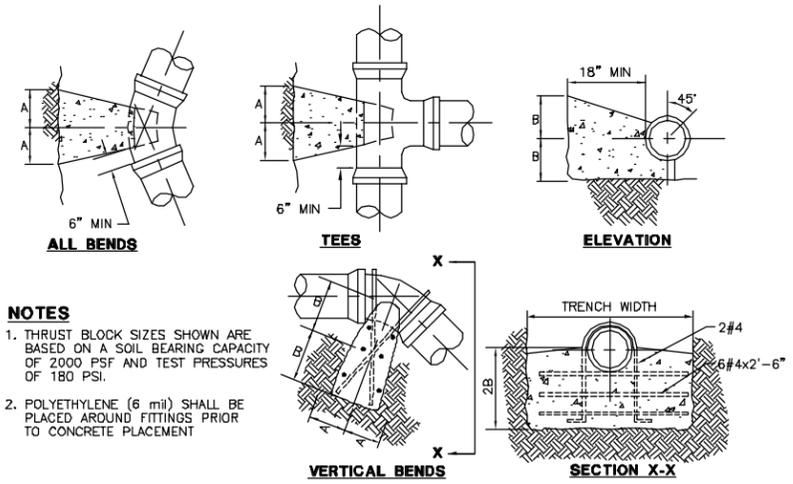
DRAWING
C-2

FOR PERMITTING PURPOSES ONLY



- NOTES:
1. ALL EXCAVATION MUST MEET OSHA STANDARDS
 2. INSTALL 3 FOOT LONG IMPERVIOUS MATERIAL DAM IN BEDDING/INITIAL BACKFILL MATERIAL EVERY 100' TO PREVENT TRENCH GROUND WATER FROM BEING CHanneled ALONG BEDDING/INITIAL BACKFILL
 3. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL REQUIREMENTS.

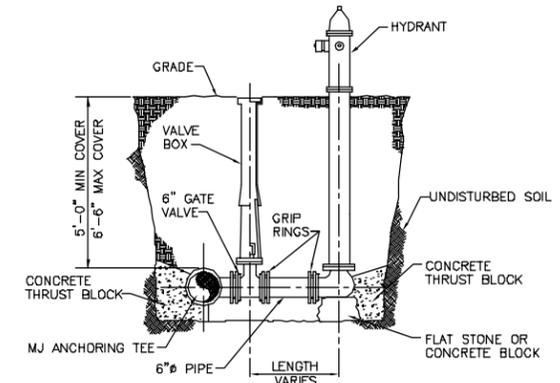
PIPE TRENCH DETAIL
NTS



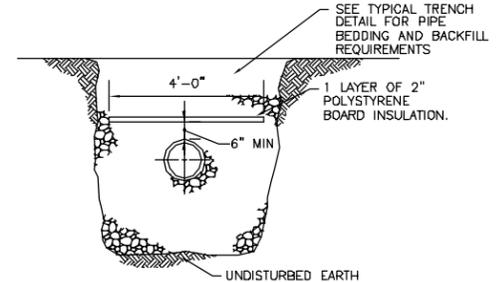
- NOTES
1. THRUST BLOCK SIZES SHOWN ARE BASED ON A SOIL BEARING CAPACITY OF 2000 PSF AND TEST PRESSURES OF 180 PSI.
 2. POLYETHYLENE (6 mil) SHALL BE PLACED AROUND FITTINGS PRIOR TO CONCRETE PLACEMENT

PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		VERTICAL BEND (DOWN)	
	A	B	A	B	A	B	A	B	A	B	A	B
6"	15"	12"	12"	9"	9"	6"	6"	6"	12"	12"	24"	21"
8"	20"	15"	14"	12"	9"	9"	9"	6"	18"	12"	33"	24"
10"	21"	21"	18"	15"	15"	9"	9"	9"	20"	18"	40"	27"
12"	27"	24"	23"	15"	15"	12"	9"	9"	25"	18"	48"	30"
16"	37"	30"	30"	21"	21"	15"	13"	12"	32"	24"	57"	36"

THRUST BLOCK DETAIL
NTS

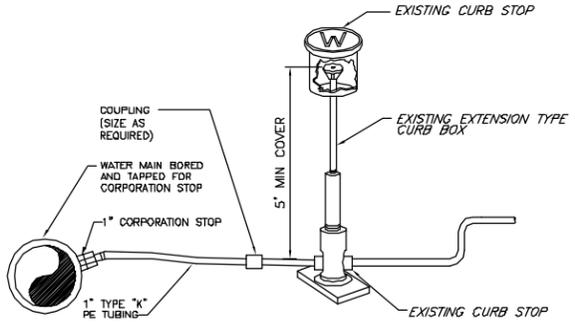


TYPICAL HYDRANT CONNECTION
NTS

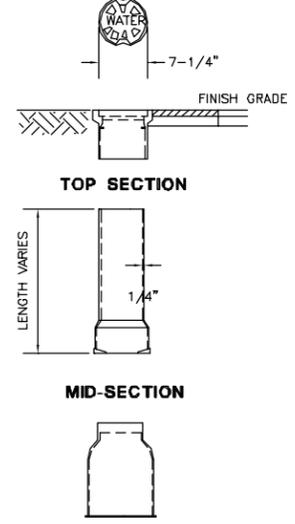


NOTE: TRENCH PIPE INSULATION TO BE USED WHERE DEPTH OF COVER IS LESS THAN 4'-6" OR AS DIRECTED BY THE ENGINEER.

TRENCH PIPE INSULATION DETAIL
NTS



WATER SERVICE CONNECTION
NTS
* ADJUST COVER PER FROST DEPTH FOR PROJECT AREA



VALVE BOX DETAIL
NTS

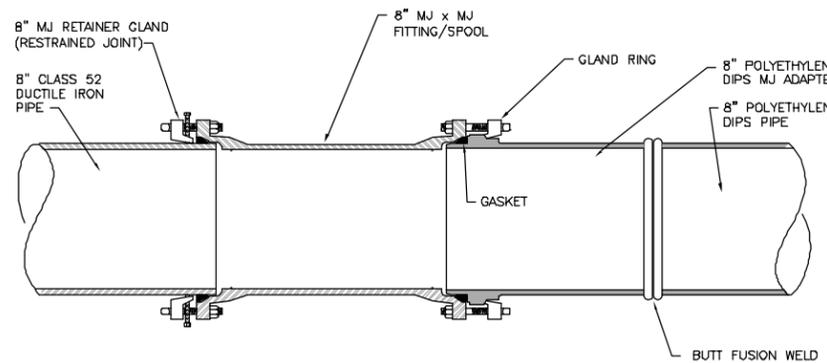
NO.	DATE	DESCRIPTION
1	1/10	PERMITTING REVIEW
2	1/10	REVISIONS

DRAWN BY: CSH
CHECKED BY: INKK
DATE: 1-19-10
APPROVED BY: RCP
DATE: 1-19-10
BOOK NO.:
PROJECT NO.:
SCALE: NONE

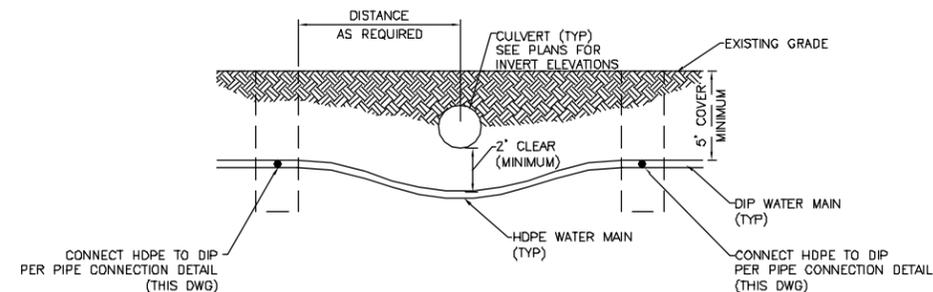
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ACTON WATER DISTRICT
ACTON, MASSACHUSETTS
ARLINGTON STREET
WATER MAIN REPLACEMENT
CIVIL DETAILS I

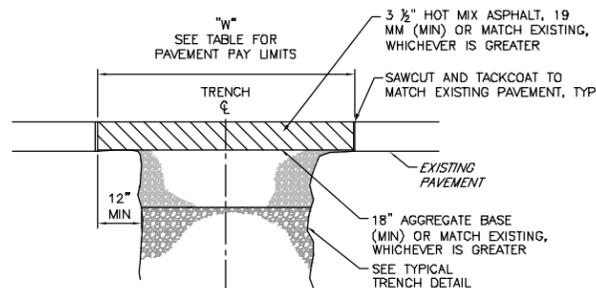
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DUCTILE IRON TO HIGH DENSITY POLYETHYLENE PIPE CONNECTION DETAIL
NTS



TYPICAL CULVERT CROSSING VIA DIRECTIONAL DRILL
NTS

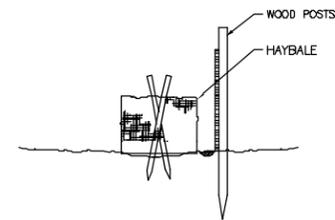


PAVEMENT PAY LIMITS	
PIPE I.D.	"W"
(FOR 0' - 10' DEEP)	
6" - 15"	7'-0"
16" - 21"	8'-0"

"W" SHALL BE INCREASED BY 1'-0" FOR TRENCHES 10' - 15', AND BY 2'-0" FOR TRENCHES 15' - 20' DEEP.

INITIAL TRENCH PAVING (WITHOUT OVERLAY)
NTS

NOTE: CONTRACTOR TO GRIND 1 INCH OF THE ENTIRE ROAD SURFACE (CURB TO CURB) AND PLACE 1 INCH OF OVERLAY PAVEMENT 6 MONTHS POST COMPLETION OF CONSTRUCTION.



COMBINATION SILT FENCE AND HAY BALE BARRIER
NTS

FOR PERMITTING PURPOSES ONLY

SUBMISSIONS/REVISIONS		APP'D	DATE
NO.	PERMITTING REVIEW		RGP 1/1/10
1			
2			
3			
4			

DRAWN BY	CSH
CHECKED BY	INXK
DATE	1-19-10
APPROVED BY	RGP
DATE	1-19-10
BOOK NO.	
PROJECT NO.	
SCALE	AS SHOWN

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ACTON, MASSACHUSETTS
ARLINGTON STREET
WATER MAIN REPLACEMENT
CIVIL DETAILS II