

## CORRESPONDENCE

8-24-15

1	Assessors	Job Posting: Full-time Junior Clerk
2	Conservation Commission	Complaint re 32 Purchase Street
3	Cardinal's Office	Public Safety Personnel Special Mass 10/4/15
4	DPW-Water Department	Job Posting: Water Station Treatment Operator
5	Decas, Murray, Decas	Law Budget FY16
6	DPW	Job Posting: Truck Driver/Laborer
7	Conservation Commission	Complaint re 282 Wareham Street
8	Library Trustees	Meeting Minutes 7/13/15
9	Conservation Commission	722 Plymouth Street: Potential Wetland Violation
10	DPW	Job Posting: Full-time Junior Clerk
11	MassDOT	Bridge Inspection: Rochester Rd/Weweantic River



# Assessor's Office

10 Nickerson Avenue  
Middleborough, Massachusetts 02346

Telephone (508) 946-2410

Fax (508) 946-4430

①

POSTING: August 21, 2015

POSITION: Full-time Junior Clerk clerical position in the Assessors' Office. All interested parties should submit resume to Barbara Erickson, Assessor/Appraiser @ [bercksn@middleborough.com](mailto:bercksn@middleborough.com).

HOURS: 40 hours per week.

WAGES: In accordance with the current clerical contract.

DUTIES: Perform diversified clerical duties including, but not limited to, all phases of the commitment of auto, real estate, personal property and boat excise taxes, commitment and apportionment of betterments and commitment of tax liens. Processing of real estate, personal property, boat excise and motor vehicle excise abatements and exemptions. Assist the Senior Clerk in training new personnel and work with the Senior Clerk in the day to day operations of the office. Perform other office duties as required or directed.

**\*Additional duties will include appointments with property owners from real estate abatements, cyclical visits & building permit inspections. A valid Massachusetts driver's license is required.**

QUALIFICATIONS: At least 5 years general office experience required with a minimum of 4 years of experience in the operation of the Assessors' Office. Taken and passed a minimum of Course 101 (Assessment Administration Department of Revenue Law Procedure and Valuation) and Course 200 (Principals of Assessing Procedures). Possessing the ability to maintain good public and interdepartmental relations is essential. Must have experience in operating office equipment (calculator, copier, fax machine, etc.) and knowledge of computers including Windows 2010 and Vision Appraisal Software. The ability to follow written and oral instructions is mandatory. Must be able to meet with the public effectively and efficiently under sometimes adverse conditions. An understanding of the legalities and confidentiality concerning this position is mandatory.

POSTING CLOSES: September 4, 2015 THIS IS AN UPGRADE

Pursuant to Federal Regulations 51.55 (e) (k) (6), the Town of Middleborough does not discriminate on the basis of handicapped status in admission or access to, or treatment in, its programs and activities.

cc: Accountant	Fire Department	Town Manager
Assessors' Office	Health Department	Treasurer & Collector
Board of Selectmen	Highway Department	Veterans' Office
Building Department	I.T. Department	Water Department
Bulletin Board, Bank Bldg	Planning Board	Zoning Board
COA	Police Department	
Conservation Office	Town Clerk	



# Town of Middleborough

## CONSERVATION COMMISSION

20 CENTRE STREET  
MIDDLEBOROUGH, MASSACHUSETTS 02346

PHONE: 1-508-946-2406  
FAX: 1-508-946-2309

August 17, 2015

John P. Grieco  
32 Purchase Street  
Middleborough, MA 02346

RE: Complaint concerning 32 Purchase Street (Map 29, Lot 2765), Middleborough, MA

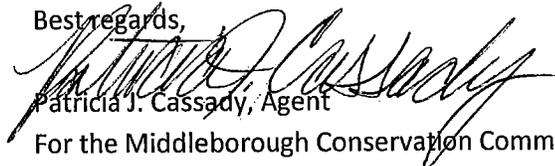
Dear Mr. Grieco:

On August 10, 2015 the Conservation Department received a complaint concerning the above-mentioned property and possible impact to the wetlands.

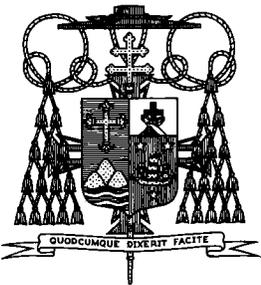
I would like to set up a site visit with you to determine if in fact an area protected under the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, Sec. 40 and regulations 310 CMR 10.00) have been impacted.

Please contact the Conservation Department at 508-946-2406 or [pcssdy@middleborough.com](mailto:pcssdy@middleborough.com) to set up the site inspection.

Best regards,

  
Patricia J. Cassidy, Agent  
For the Middleborough Conservation Commission

Cc:  Board of Selectmen  
Robert Nunes, Town Manager  
Department of Environmental Protection – Wetlands and Waterways SERO



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CARDINAL'S OFFICE  
66 BROOKS DRIVE  
BRAINTREE, MASSACHUSETTS 02184-3839  
617-782-2544

August 3, 2015

Board of Selectman  
10 Nickerson Ave  
Middleborough, MA 02346

Dear Board of Selectman ,

It gives me great pleasure to invite you to join me on October 4th for a special Mass in thanksgiving to God for all the men and women who serve our communities as public safety personnel. This Mass will take place at 11:30 a.m. on Sunday, October 4, 2015, at the Cathedral of the Holy Cross in Boston.

Invitations have been sent to hundreds of agencies throughout the Archdiocese of Boston, which comprises one hundred forty four cities and towns in Eastern Massachusetts, and we encourage all public safety personnel and their families, regardless of their faith, to be part of this special Mass. It is important to show these men and women, as well as their families, that we support them and pray for them. They are our heroes and heroines, and we wish to pay tribute to them and ask for God's blessings upon them.

During this Mass we also wish to remember those who have died in the line of duty and to honor their families. Your presence at this Mass will be an honor for those who have made the ultimate sacrifice for our safety and security. In order to plan accordingly, I would kindly ask you to respond using the enclosed R.S.V.P. card no later than Friday, September 18<sup>th</sup>.

Allow me this moment to thank you again for your continued service to the public, and to assure you of my prayers for you and all those who serve along with you. Looking forward to thanking you in person at the Public Safety Mass, I am

Sincerely yours in Christ,

*+ Sean, O'Connell*

Archbishop of Boston

## JOB NOTICE

Please be advised that the following full-time position is available in the Middleborough Department of Public Works - Water Department

### WATER STATION TREATMENT OPERATOR

- Posting date: August 17, 2015
- Hours: 40 Hours, Monday through Friday, 7:00 am to 3:30 pm  
Scheduled and unscheduled overtime required  
Weekends on a rotational basis required  
Standby duty required
- Wages: Per D P W Contract – Grade 5, Step 1 \$21.5687/hr
- Qualifications: See attached job description
- Posting closes: August 28, 2015 3:30 pm  
Applicants must submit a Town of Middleborough Employment application.  
Applications may be obtained from the Department of Public Works – Water Division

Submit Application to: Joseph Silva  
Water Superintendent

**JOB POSTING**  
**WATER STATION OPERATOR**  
**GRADE 5**

**Posting Date:** August 17, 2015  
**Position:** Water Station Operator  
**Hours:** 40 hours per week  
**Wages:** As per Union Contract Grade 5, Step 1 \$ 21.1457/hour

**Job Description:**

Perform diversified operator duties in the operation and maintenance of water pumping, filtration, iron removal, chemical treatment, flow level, and water storage facilities as directed by the Foreman and/or Water Superintendent. Perform regular weekend, holiday, and emergency duty as assigned or directed.

Operate and maintain water pumping stations as follows: Make daily check of buildings, equipment, and grounds, take readings of hours run, volume pumped, and power consumption. Change instrument charts. Record this data in daily pumping log. Work on routine maintenance such as servicing pneumatic and hydraulic equipment, and packing pumps. Work with computer(s) as required in maintenance and record keeping systems.

Operate and maintain filter plant as follows: Participate in cleaning of filter systems. Check interior areas of filters, sedimentation unit, and clear wells, including all valves, gates, piping, and lighting systems. Make adjustments of control valves, as required. Operate valves and controls in gate house. Adjust controls and work on piping system in coke filter.

Operate and maintain iron removal system as follows: Take water levels and quality samples from all injection wells and run laboratory tests, as required. Participate in cleaning wells and running flow tests to rate wells. Service and maintain all injection well equipment. Work with system process controller.

Operate and maintain chemical treatment facilities as follows: Perform daily inspection of building, equipment, and grounds. Check chemical feed pumps and injection equipment. Check chemical levels and fill day tanks. Record amounts of water treated, chemical consumption and residual levels. Make adjustments to pumps, as required.

**Water Station Operator – Grade 5**

**Page 2**

Work on pump and equipment maintenance and/or overhaul. Adjust and maintain electronic monitoring equipment.

Operate and maintain water storage facilities as follows: Make daily check of buildings and grounds. Check control cabinets. Make adjustments to instruments as required.

Operate and maintain river level station (Bascule Gate) as follows: Check gate level and instrument settings daily. Check building and grounds area. Check hydraulic fluid levels and adjust, as required. Assist equipment service personnel, as required.

General duties at all facilities include mowing lawns, painting equipment and buildings inside and outside, checking and maintaining propane storage tanks, checking and servicing building heating and ventilation systems, and making routine repairs, as required.

Maintain vehicles and grounds equipment in good condition and perform required service, as directed.

Take weather readings and maintain weather station, as directed.

Perform other related duties, as required or directed.

Drivers license required – Class B – C D L required

**Position requires a minimum of a Grade 2T Massachusetts Drinking Water Treatment Operator Certification.**

**Posting closes : August 28, 2015**

The Town of Middleborough is an equal opportunity employer

**Jacqueline Shanley**

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**From:** decas.murray.decas@verizon.net  
**Sent:** Tuesday, August 11, 2015 10:16 AM  
**To:** Robert G. Nunes; Jacqueline Shanley  
**Subject:** outside counsel billing

August 11, 2015

Town Accountant  
Middleboro Town Offices  
20 Centre Street  
Middleboro, MA 02346

RE: Law Department Budget – Fiscal Year 2016

To The Accountant:

Enclosed please find invoice from Collins, Loughran & Peloquin, P.C. dated 8/7/15 in the amount of \$3,843.75 for service rendered through July 31, 2015.

Please process for payment directly to Collins, Loughran & Peloquin, P.C. Payment to be made from “Special Counsel” part of the Law Department Budget.

Very truly yours,

Daniel F. Murray  
Town Counsel

DFM/s  
82-117  
Enclosure  
cc: Robert G. Nunes, Town Manager (*via email*)  
Board of Selectmen (*via email*)

Incorporated 1669



6  
CRANBERRY CAPITAL  
OF THE WORLD



**DIVISIONS**

Highway  
Sanitation  
Insect & Pest Control  
Tree Warden  
Wastewater  
Water

Christopher Peck  
D. P. W. Director

***Town of Middleborough***  
*Massachusetts*  
Department of Public Works  
48 Wareham Street  
Middleborough, MA 02346  
Phone 508-946-2481 Fax 508-946-2484

**JOB NOTICE**

**POSTING DATE: August 10, 2015**

Please be advised that a full-time position is available in the Middleborough Department of Public Works-Trash Disposal Enterprise. Applications/Resumes **MUST** be submitted.

**TRUCK DRIVER/LABORER  
GRADE 7**

**Job Description:**

Perform a variety of duties on assigned shift in the Trash Disposal department under the general supervision of the Foreperson and driving and operating a refuse collection truck to preserve and maintain the general cleanliness of the Town. Possess a Class 2 driver's license.

Work from verbal instructions of the Foreperson and assigned schedule.

Operate the refuse collection truck on a daily assigned route to pick up rubbish and operate the loading and dumping mechanism. Drive collected rubbish to designated site for dumping. Operate mechanism to dump rubbish in assigned area.

Exercise caution in driving and operating at all times; show courtesy to public as indicated.

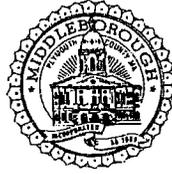
Maintain truck in clean and safe condition and make necessary minor repairs.

Move materials as necessary in performance of duties as directed. Make self available and on call during emergency situations and for snow removal operations. Detect and report improper operation, faulty equipment, defective materials and unusual conditions to proper supervisor. Maintain all equipment in clean, safe and orderly condition. Follow prescribed safety rules and regulations at all time, and maintain quality standards.

Perform other related duties as required or as directed. Those applicants who are interested must submit an application on or before 3:30 P. M., August 21, 2015. Applications may be obtained from the D.P.W. office. The successful applicant shall be given a thirty (30) day trial and training period in this position.

Rate of pay \$19.51 Hourly (Per Union Contract)

**POSTING CLOSING DATE: August 21, 2015**



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# Town of Middleborough

## CONSERVATION COMMISSION

20 CENTRE STREET  
MIDDLEBOROUGH, MASSACHUSETTS 02346

PHONE: 1-508-946-2406  
FAX: 1-508-946-2309

August 18, 2015

Jerome P. Tripp, Trustee  
C/O Lisa Millet  
850 Scotts Ferry Road  
East Versailles, KY 40383

RE: Complaint concerning 282 Wareham Street (Map 66, Lot 5193), Middleborough, MA

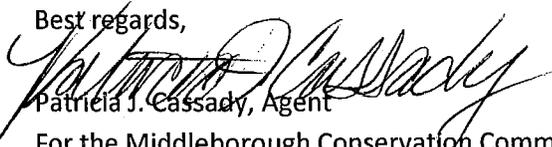
Dear Ms. Millet:

On August 17, 2015 the Conservation Department received a complaint concerning the above-mentioned property for recent tree and brush clearing within 200-feet of Fall Brook and within 100-feet of a wetland associated with Fall Brook. On August 18, 2015 I went by the property and saw that there has been recent clearing of trees and brush.

I would like to set up a site visit with you or whoever has done this work to look at these areas. These areas are protected under the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, Sec. 40 and regulations 310 CMR 10.00). Any further work will require the filing of a Notice of Intent.

Please contact the Conservation Department at 508-946-2406 or [pcssdy@middleborough.com](mailto:pcssdy@middleborough.com) to set up the site inspection.

Best regards,

  
Patricia J. Cassidy, Agent

For the Middleborough Conservation Commission

Cc: ✓ Board of Selectmen  
Robert Nunes, Town Manager  
Department of Environmental Protection – Wetlands and Waterways SERO

The Trustees of the Middleborough Public Library held their monthly meeting on July 13, 2015. In attendance were Eleanor Osborne, Sherri Hartlen-Neely, Keith Macdonald, George Davey, Chasity Armstrong-Menard, James Okolita, Edward Pratt, Maryanna Abren, and Library Director Danielle Bowker.

Chairman Okolita called the meeting to order at 6:04 p.m.

Chasity Armstrong-Menard joined the Trustees. She will replace Nancy Ockers on the Board.

The minutes of the June 8<sup>th</sup> meeting were accepted as presented.

The Treasurer's Report was accepted, subject to audit. The monies from the MacKenzie settlement were put into the General Fund. These will be transferred to the Endowment Fund.

There was no "Unanticipated Business" for the Board to consider.

In the Director's Report, Danielle noted the following:

- The FY15 budget has been spent down to \$143.
- The Peirce Trustees have agreed to Danielle's request for additional money for the lighting upgrade.
- The Friends were hesitant to fund the painting of the lobby. Ted, as Treasurer, has volunteered to be the liaison between the Friends and the Trustees.
- Mockingbird has not yet come to clear the brush.
- Susan Black is coming in twice a week to help out while Roger is out on medical leave.
- MacKenzie funds will be deposited in the Mutual account and a check sent to Ameriprise.
- Mr. Nunes has prepared a town-wide strategic plan that includes 3 goals from the Library. Included in this is a goal that the Town will appropriate a budget that meets the Library's Municipal Appropriation Requirement.
- The Library pays for the Director's membership in ALA. (This is more cost effective than an institutional membership.) The consensus of the Trustees was to continue this practice.
- Middleboro High yearbooks have been digitized, and there is a link to them on the Library's website.
- The children's summer reading kick-off was outstanding. Participation numbers at all levels are up this year.

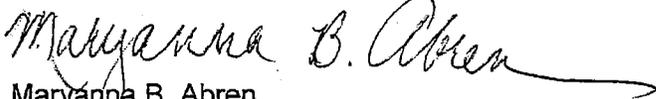
Trustees voted to accept, with gratitude, the efforts of the Performance Review committee. Trustees voted unanimously to accept, with certain refinements as discussed, the Library Director Performance Review.

The next meeting is scheduled for August 10, 2015 at 6:00 p.m.

At 7:13 p.m. Trustees voted to go into Executive Session for the purpose of discussing personnel issues, and not to return to Open Session.

The meeting was adjourned at 7:51 p.m.

Respectfully submitted,

  
Maryanna B. Abren

Handouts

Agenda 7/13/15

Minutes 6/8/15

Treasurer's Report 6/29/15

Director's Report

Employment Contract for Middleborough Library Director

Middleborough Public Library Director Performance Review



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# Town of Middleborough

## CONSERVATION COMMISSION

20 CENTRE STREET  
MIDDLEBOROUGH, MASSACHUSETTS 02346

PHONE: 1-508-946-2406  
FAX: 1-508-946-2309

August 10, 2015

Richard Brewer  
691 North Street  
Randolph, MA 02368

RE: 722 Plymouth Street (Map 44, Lot 2731), Middleborough, MA 02346  
Potential Wetland Violation: Follow-up

Dear Richard:

Thank you for meeting on site with me in July to go over the complaint the Conservation Department received concerning the above mentioned property.

Per our discussion on site there was a file in the office for a past violation with the previous owner, Armand and Jennifer Gloria. There was an Enforcement Order issued on May 3, 2007 for filling within the buffer zone of a bordering vegetated wetland. It appears that the past owners had been working with an engineer to resolve the enforcement action however there is no more communication with the Commission regarding this after June 2007. The Engineer who they were working with has since gone out of business.

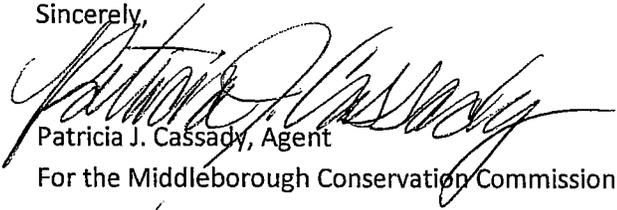
Also per our conversation on site and what we agreed on was to stabilize the site. The Commission also wants to make sure the site is stabilized and that there is no further damage to the surrounding wetlands. I would like to set up a time to meet with you in the next couple of weeks to see how the stabilization is going. You can call the office at 508-946-2406 when you are ready for a follow up site visit.

Thank you for your cooperation, I look forward to hearing from you on this issue.

722 Plymouth Street (Map 44, Lot 2731), Middleborough, MA 02346

Potential Wetland Violation: Follow-up

Sincerely,

A handwritten signature in cursive script, appearing to read "Patricia J. Cassidy".

Patricia J. Cassidy, Agent

For the Middleborough Conservation Commission

Cc: ✓ Board of Selectmen  
Robert Nunes, Town Manager  
DEP-SERO Wetlands and Waterways



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## **Town of Middleborough**

Water Division – Department of Public Works

48 Wareham Street

Middleborough, MA 02346

Phone 508-946-2482 Fax 508-946-2484

Joseph M. Silva

Water Superintendent

### **POSTING OF PERMANENT FULL TIME POSITION – JUNIOR CLERK**

Posting Date: August 10, 2015

Position: Junior Clerk in the Department of Public Works – All interested parties should apply in writing to Joseph Silva, Water Superintendent with a resume included.

Wages: In accordance with the current Clerical Union Contract

Qualifications: A minimum of 2 year's general office experience required. The ability to meet and deal effectively with the public and maintain good public and interdepartmental relations is essential. Individual must possess knowledge of bookkeeping procedures, as well as the operation of office equipment and general knowledge of Windows based computer programs. Telephone skills in customer assistance are required. The ability to follow written and oral instructions is essential. An understanding of the legalities and confidentiality concerning utility clerical work is essential.

Duties: Perform a variety of diversified clerical duties for the Water / Wastewater Departments under the direction of the Senior Clerk and Superintendent. Work includes, meter calibration program, backflow prevention/cross connection program, filing, miscellaneous billing, answering public inquiries at the counter / telephone along with other assigned duties. Assistance to the Town Manager and other Public Works Superintendents as needed.

Posting Closes: August 21, 2015 at 5:00 PM

The Town of Middleborough is an Equal Opportunity Employer  
Pursuant to Federal Regulation 51.55 (e) (k) (6), the Town of Middleborough does not discriminate on the basis of handicapped status in admission or access to, or treatment in, its programs and activities.

Cc:   Town Clerk                                   Council on Aging                                   Town Accountant  
      Town Manager                               Police Department                               Health Department  
      Zoning Board                                Planning Board                                   Conservation Office  
      Assessor's Office                           Treasurer & Collector                       Building Department  
      D P W (Water, Wastewater & Highway)



Charles D. Baker, Governor  
Karyn E. Polito, Lieutenant Governor  
Stephanie Pollack, Secretary & CEO  
Thomas Tinlin, Acting Administrator



August 7, 2015

Town of Middleborough  
Board of Selectmen  
10 Nickerson Avenue  
Middleborough, MA 02346

Attn: Christopher Peck, Director of Public Works

SUBJECT: NATIONAL BRIDGE INSPECTION STANDARDS (NBIS)  
UNDERWATER BRIDGE INSPECTION

ROCHESTER RD / WEWEANTIC RIVER  
Bridge No. C-04-004 = M-18-025  
Structure No. C04004-436-MUN-NBI

Dear Mr. Peck:

Enclosed for your information is a copy of an Underwater Inspection Report of 5/5/15 for the bridge that carries the ROCHESTER RD over the WEWEANTIC RIVER.

A copy of the report is on file at our District 5 office located in Taunton. Please feel free to contact the District with any questions you may have concerning the bridge.

Sincerely,

Alexander K. Bardow, P.E.  
State Bridge Engineer

REB/reb  
cc: BBC  
DHD, D-5  
Enclosure

**UNDERWATER OPERATIONS TEAM  
ROUTINE UNDERWATER INSPECTION REPORT**

2-DIST  
**05**

B.I.N.  
**436**

BR. DEPT. NO.  
**C-04-004=M-18-025**

CITY/TOWN <b>CARVER=MIDDLEBOROUGH</b>		8-STRUCTURE NO. <b>C04004-436-MUN-NBI</b>		LEVEL OF INSPECTION <b>II</b>	93B-DATE INSPECTED <b>MAY 5, 2015</b>
07-FACILITY CARRIED <b>HWY ROCHESTER RD</b>		ACCESS TO BRIDGE <b>EMBANKMENT</b>		UNDERWATER OPERATIONS ENGINEER <b>RANDI E. BONICA <i>Randi E. Bonica</i></b>	
06-FEATURES INTERSECTED <b>WATER WEWEANTIC RIVER</b>		DEPTH <b>2 m</b>	VISIBILITY <b>1 m</b>	TEAM LEADER (DIVE MASTER) <b>WILLIAM J. COLLERAN</b>	Report submitted by: <i>Weg Ah</i>
BOTTOM CONDITION <b>SILT, GRAVEL, BOULDERS</b>		CURRENT <b>SLIGHT</b>	TEAM MEMBERS <b>R. E. BONICA, G. BROZ, B. FITZGERALD, T. S. PRENDERGAST</b>		

ITEM 60		4	ITEM 61	4	ITEM 62	N
SUBSTRUCTURE		DEF	CHANNEL & CHANNEL PROTECTION	DEF	CULVERTS	DEF
1. Abutments	6		1. Channel Scour	4	1. Roof	N
a. Pedestals	N	-	2. Embankment Erosion	6	2. Floor	N
b. Bridge Seats	N	-	3. Debris	6	3. Walls	N
c. Backwalls	N	-	4. Vegetation	6	4. Headwall	N
d. Breastwalls	6	-	5. Utilities	N	5. Wingwall	N
e. Wingwalls	7	-	6. Rip-Rap/Slope Protection	7	6. Pipe	N
f. Slope Paving/Rip-Rap	7	-	7. Aggradation	6	7. Protective Coating	N
g. Pointing	N	-	8. Fender System	N	8. Embankment	N
h. Footings	X	-	a. Piles	N	9. Wearing Surface	N
i. Piles	X	-	b. Diagonal Bracing	N	10. Railing	N
j. Scour	6	-	c. Horizontal Bracing	N	11. Sidewalks	N
k. Settlement	7	-	d. Wales	N	12. Utilities	N
l.	N	-	e. Fasteners	N	13. Member Alignment	N
2. Piers or Bents	4		f. Ladders	N	14. Deformation	N
a. Pedestals	N	-	9.	N	15. Scour	N
b. Caps	N	-	ITEM 59 SUPERSTRUCTURE		16. Settlement	N
c. Columns	N	-		N	17.	N
d. Stems/Webs/Pierwalls	5	S-A		N	18.	N
e. Pointing	N	-		N		N
f. Footing	X	-				
g. Piles	X	-				
h. Scour	4	S-A				
i. Settlement	7	-				
j.	N	-				
k.	N	-				
3. Pile Bents	N					
a. Pile Caps	N	-				
b. Piles	N	-				
c. Diagonal Bracing	N	-				
d. Horizontal Bracing	N	-				
e. Fasteners	N	-				
UNDERMINING (Y/N)		Y				

**DEFICIENCY REPORTING GUIDE**

**DEFICIENCY:** A defect in a structure that requires corrective action.

**CATEGORIES OF DEFICIENCIES:**

**M= Minor Deficiency** - Deficiencies which are minor in nature, generally do not impact the structural integrity of the bridge and could easily be repaired. Examples include but are not limited to: Spalled concrete, Minor scouring, etc.

**S= Severe/Major Deficiency** - Deficiencies which are more extensive in nature and need more planning and effort to repair. Examples include but are not limited to: Moderate to major deterioration in concrete, Exposed and corroding rebars, Deteriorated timber piles, Considerable settlement, Considerable scouring or undermining, etc.

**C-S= Critical Structural Deficiency** - A deficiency in a structural element of a bridge that poses an extreme unsafe condition due to the failure or imminent failure of the element which will affect the structural integrity of the bridge.

**C-H= Critical Hazard Deficiency** - A deficiency in a component or element of a bridge that poses an extreme hazard or unsafe condition to the public, but does not impair the structural integrity of the bridge. Examples include but are not limited to: Any part of piles or fender system which are projecting outward and may become a safety hazard for the navigational traffic, etc.

**URGENCY OF REPAIR:**

**I=Immediate** - [Inspector(s) immediately contact District Bridge Inspection Engineer (DBIE) to report the Deficiency and to receive further instruction from him/her.]

**A=ASAP** - [Action/Repair should be initiated by District Maintenance Engineer or the responsible party (if not a State owned bridge) upon receipt of the Inspection Report.]

**P=Prioritize** - [Shall be prioritized by District Maintenance Engineer or the Responsible Party (if not a State owned bridge) and repairs made when funds and/or manpower is available.]

CITY/TOWN CARVER=MIDDLEBOROUGH	B.I.N. 436	BR. DEPT. NO. C-04-004=M-18-025	8-STRUCTURE NO. C04004-436-MUN-NBI	INSPECTION DATE MAY 5, 2015
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## REMARKS

### GENERAL REMARKS

This bridge is a two span structure with concrete abutments and pier. Abutments are labeled left and right, looking downstream. Sta 10+00 is at the upstream end. The downstream end is Sta 10+24.

### ITEM 60 - SUBSTRUCTURE

#### Item 60.1 - Abutments

##### Item 60.1.d - Breastwalls

##### **Left Abutment:**

At Sta 10+14 there is an area of concrete deterioration 3' below the top of the breastwall at a horizontal pour line (1.5' L x 0.3' H x 0.5' P).

There is minor concrete abrasion with coarse aggregate exposed from the mudline to approximately 3.5' above the mudline.

##### **Right Abutment:**

There is minor concrete abrasion with coarse aggregate exposed from the mudline to approximately 4' above the mudline.

The abutment has a concrete step just below the waterline. This could be a curtain wall or part of the original design of the bridge. The exposed height varies and the width varies up to a maximum of 0.9'. Irregular deteriorated wood formwork or sheeting is exposed in some areas in front of this step. There is concrete deterioration at the mudline from Sta 10+17 to Sta 10+24 (Downstream End). The void is 1.5' H x 0.9' P. There is concrete laitance in the void.

##### Item 60.1.j - Scour

##### **Right Abutment:**

The abutment has a concrete step just below the waterline. This could be a curtain wall or part of the original design of the bridge. The exposed height varies and the width varies up to a maximum of 0.9'. Irregular deteriorated wood formwork or sheeting is exposed in some areas in front of this step.

#### Item 60.2 - Piers or Bents

##### Item 60.2.d - Stems/Webs/Pierwalls

The pier has a concrete step around the entire pier. The step is located 6' below the top of the pier. This could be a curtain wall or part of the original design of the bridge.

There is minor concrete abrasion with coarse aggregate exposed from the mudline to approximately 4' below the top of the pier.

There is a horizontal pour line approximately 5' below the top of the pier.

There is concrete deterioration starting at the upstream nose 7.5' below the top of the pier. On the left side the deterioration ends approximately 1' downstream of the upstream angle point (4.6' L (3.5' from nose of pier to angle point, then 1.1' continuing along pierwall) x 1.5' H x 2.5' P). On the right side the deterioration starts at the nose and ends 3' from the nose (3.0' L x 1.3' H x 2.3' P). Penetration at nose is perpendicular to the flow.

There is deteriorated wood formwork or sheeting in front of the concrete step that is exposed along the entire right side and intermittently along the left side. There is concrete laitance visible behind the formwork.

##### **Left Side:**

The concrete step is battered on the left side. There is a void in the concrete step located 2' above the mudline, 9' downstream from the upstream angle point (0.8' L x 0.5' H x 1.0' P). The back of the void has concrete laitance and crumbly concrete.

There is a void in the bottom of the step, 7' upstream from the downstream angle point (3.3' L x 3.0' H x 1.9' P). Below this void there is undermining under the concrete step located 5' upstream from the downstream angle point (11' L x 0.5' H x 4.0' P). The penetration is under the pierwall.

There is a void in the pierwall at the mudline, starting 0.6' upstream of the angle point and continuing 3.0' to the downstream nose (3.6' L x 1.0' H x 0.7' P).

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## REMARKS

### Item 60.2 - Piers or Bents

#### Item 60.2.d - Stems/Webs/Pierwalls (Cont'd)

#### **Right Side:**

There is concrete deterioration at a cold joint starting at the upstream end 5' below the top of the pier. The deterioration starts at the nose, continues 3' to the angle point and continues 6' downstream of the angle point (9.0' L x 0.5' H x 0.4' P).

#### Item 60.2.h - Scour

The pier has a concrete step around the entire pier. This could be a curtain wall or part of the original design of the bridge. The concrete step is battered on the left side. There is undermining under the concrete step located 5' upstream from the downstream angle point (11' L x 0.5' H x 4.0' P). The penetration is under the pierwall.

There is deteriorated wood formwork or sheeting in front of the concrete step that is exposed along the entire right side and intermittently along the left side.

### ITEM 61 - CHANNEL AND CHANNEL PROTECTION

#### Item 61.1 - Channel Scour

#### **Right Abutment:**

The abutment has a concrete step just below the waterline. This could be a curtain wall or part of the original design of the bridge. The exposed height varies and the width varies up to a maximum of 0.9'. Irregular deteriorated wood formwork or sheeting is exposed in some areas in front of this step.

#### **Pierwall:**

The pier has a concrete step around the entire pier. This could be a curtain wall or part of the original design of the bridge. The concrete step is battered on the left side. There is undermining under the concrete step located 5' upstream from the downstream angle point (11' L x 0.5' H x 4.0' P). The penetration is under the pierwall.

There is deteriorated wood formwork or sheeting in front of the concrete step that is exposed along the entire right side and intermittently along the left side.

#### Item 61.2 - Embankment Erosion

There is erosion of the roadway due to roadway runoff at approximately 10' from the upstream right corner of the abutment. The hole extends 1' into the roadway from the face of the guardrail.

#### Item 61.3 - Debris

There are trees and large branches in the channel downstream of the bridge.

#### Item 61.4 - Vegetation

Vegetation has narrowed the channel at the upstream end. There is a tree next to the downstream right wingwall.

#### Item 61.7 - Aggradation

There is a large accumulation of silt along the left abutment.

#### Sketch / Chart Log

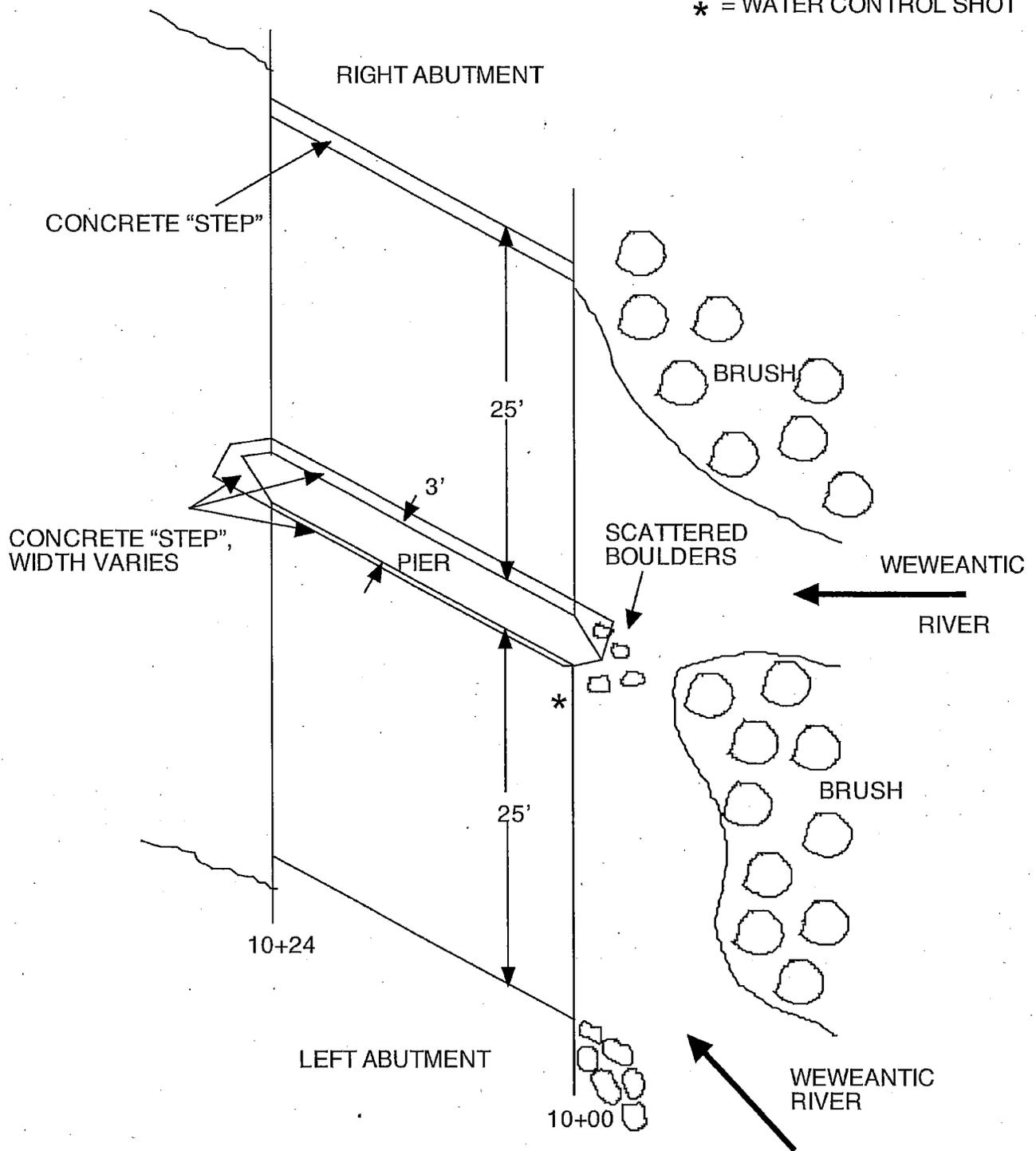
Sketch 1 : PLAN VIEW - NOT TO SCALE

Chart 1 : SCOUR MONITORING CHART AT UPSTREAM END

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**SKETCHES**

\* = WATER CONTROL SHOT



NOTE: UNDERMINING NOT SHOWN

Sketch 1: PLAN VIEW - NOT TO SCALE

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**CHARTS**

	4/9/92	4/27/95	6/11/98	6/26/01	6/25/04	5/24/07	5/29/10
<b>LEFT ABUTMENT</b>	1.1'	1.1'	0.3'	1.0'	1.3'	0.9'	0.7'
<b>C/L LEFT SPAN</b>	4.7'	5.3'	4.9'	5.9'	6.6'	6.3'	4.9'
<b>PIER LEFT SIDE</b>	5.7'	5.7'	5.1'	5.9'	6.2'	4.7'	6.2'
<b>PIER RIGHT SIDE</b>	5.1'	5.4'	4.3'	5.2'	4.6'	4.4'	5.5'
<b>C/L RIGHT SPAN</b>	6.7'	5.8'	4.9'	5.9'	6.2'	6.0'	6.0'
<b>RIGHT ABUTMENT</b>	2.4'	2.9'	2.1'	3.3'	3.6'	3.3'	4.0'
<b>Y</b>	3.8'	4.2'	4.8'	4.1'	5.9'	3.6'	4.5'
<b>CORRECTION</b>	-	+0.4'	+1.0'	+0.3'	+2.1'	-0.2'	+0.7'
	4/11/13	4/8/14	5/5/15				
<b>LEFT ABUTMENT</b>	0.7'	0.0'	1.2'				
<b>C/L LEFT SPAN</b>	5.2'	5.2'	5.4'				
<b>PIER LEFT SIDE</b>	5.7'	5.9'	4.8'				
<b>PIER RIGHT SIDE</b>	4.9'	5.6'	5.4'				
<b>C/L RIGHT SPAN</b>	6.2'	6.1'	6.4'				
<b>RIGHT ABUTMENT</b>	2.8'	2.8'	3.5'				
<b>Y</b>	4.0'	3.1'	4.3'				
<b>CORRECTION</b>	+0.2'	-0.7'	+0.5'				

Notes

1. Water control shot (Y) = Waterline to bottom of beam, upstream end of pier on left side.
2. For comparison all soundings are adjusted to 1992 water level.
3. Station 10+00 is located at the upstream end.

Chart 1: SCOUR MONITORING CHART AT UPSTREAM END

