



**US Army Corps
of Engineers** ®
New England District

PUBLIC NOTICE

696 Virginia Road
Concord, MA 01742-2751

Date: September 2, 2008
Comment Period Ends: October 2, 2008
File Number: NAE-2008-2237
In Reply Refer To: William J. Mullen
Or by e-mail: william.j.mullen@usace.army.mil

The District Engineer has received a permit application from the applicant below to **conduct work in waters of the United States** as described below. The Corps is soliciting comments on both the project itself and the range of issues to be addressed in the environmental documentation.

APPLICANT: Town of Manchester, Connecticut

ACTIVITY The proposed activity is the stabilization of two areas of eroding streambank on the lower Hop Brook (near the confluence of the Hockanum River), also the removal of accumulated sediments on the Hockanum River at the mouth of Hop Brook using a large excavator, also the remediation of an unnamed seasonal seep located along an existing landfill. A detailed description and plans of the activity are attached.

WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in Hop Brook and the Hockanum Rver in the vicinity of Olcott Street znd Thrall Roads, Manchester, Connecticut. The proposed location on the USGS Manchester, Connecticut quadrangle sheet is at Lat 41.77805N/Long 72.56227W.

AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
 Section 404 of the Clean Water Act
 Section 103 of the Marine Protection, Research and Sanctuaries Act).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess

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impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH).

Although this project will not impact Essential Fish Habitat (EFH), it may impact threatened aquatic species, therefore further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

Based on his initial review, the District Engineer has determined that little likelihood exists for the proposed work to impinge upon properties with cultural or Native American significance, or listed in, or eligible for listing in, the National Register of Historic Places. Therefore, no further consideration of the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended, is necessary. This determination is based upon one or more of the following:

- a. The permit area has been extensively modified by previous work.
- b. The permit area has been recently created.
- c. The proposed activity is of limited nature and scope.
- d. Review of the latest published version of the National Register shows that no presence of registered properties listed as being eligible for inclusion therein are in the permit area or general vicinity.
- e. Coordination with the State Historic Preservation Officer and/or Tribal Historic Preservation Officer(s)

The following authorizations have been applied for, or have been, or will be obtained:

- () Permit, License or Assent from State.
- (X) Permit from Local Wetland Agency or Conservation Commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact William Mullen at (978) 318-8559, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

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Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

For more information on the New England District Corps of Engineers programs, visit our website at <http://www.nae.usace.army.mil>.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.



Cori M. Rose
Acting Chief, Permits and Enforcement Branch
Regulatory Division

If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____

PROPOSED WORK AND PURPOSE

The proposed work would impact a total of 0.44 acres of Federally-jurisdictional areas. Fill is to be placed within a Federal Emergency Management Agency-identified floodway, hence the project's consideration as an Individual Permit.

The work includes the discharge of fill material for purposes of stabilizing two areas of eroding streambank on the lower Hop Brook using bioengineering techniques. The work is expected to prevent further erosion of these reaches, thereby improving downstream water quality, and also to prevent undermining of the Laurel Marsh linear trail, a trail that provides public access to the Laurel Marsh area and educational opportunities for community members. Area 1, the most downstream of the two eroding areas, is an approximately 180-foot reach of the north bank of Hop Brook that would be stabilized using hemlock revetment at the toe of the bank and anchored by rebar, with 1'-2'-diameter stone placed a minimum of 2' up the bank. The bank will be cut back to a slope of 2H to 1V and protected by a combination of topsoil, seed, and live stakes. The area will be protected with a coconut fiber erosion control blanket to minimize erosion as the plantings develop. Impacts associated with work at Area 1 total to 0.12 acres, with the impacts being considered as temporary since all disturbed areas will be restored with topsoil and native vegetation following completion of the project. Area 2, the most upstream of the two eroding areas, is an approximately 100-foot-reach of Hop Brook that would be protected on the north bank using earthen fill at a 2H to 1V slope and protected by a coconut fiber erosion control blanket. Topsoil, seed, and live stakes will be used to provide long-term protection of the slopes. A timber lunker structure will be placed at the base of the northern streambank slope to provide aquatic habitat, and the structure will be pinned in place to prevent movement. Stone is proposed on and around the structure to prevent scour. Along much of this 100' reach, the channel is proposed to be excavated to provide additional hydraulic capacity. Impacts associated with work at Area 2 total to 0.11 acres, with most impacts being considered as temporary, since all disturbed areas will be restored with topsoil and native vegetation following completion of the project, the exception being the small (approximately 700 square feet) area to be excavated. No equipment will be located within the stream in association with work proposed at either of these two areas.

Accumulated sediments at the mouth of Hop Brook at the Hockanum River are proposed to be removed by standard dredging methods. Approximately 215 cubic yards of sediment are proposed to be removed. Construction equipment will access the project site over an existing gravel access road. A short temporary access road will be constructed on the bank and within the channel of Hop Brook to facilitate access by a large excavator. The removal of sediments is intended to restore the Hockanum River and Hop Brook confluence to its original condition, with work limited to excavation to the original grade. Sediments from the area of the sewage treatment plant outfall will also be removed, allowing greater dispersion and assimilation of effluent. Impacts associated with this sediment removal area total to 0.14 acres, with the impacts being considered as temporary.

An unnamed seep located north of the existing landfill discharges discoloured leachate directly into the Hockanum River. The surface soils within the seep are stained. As part of the remedial action plan, the stained sediments including the underlying fine grained soils would be excavated from the seep and replaced with coarse grain material and filter fabric. An approximately 140'-long riprap swale would also be constructed within this area in order to stabilize the existing seep channel. Impacts associated with the seep remediation total to 0.07 acres.

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Mitigation is not being required of this project because the work is considered beneficial to the environment by reducing erosion and benefiting downstream water quality, and the project is additionally being designed with low-impact bioengineering measures to a large extent.

Alternatives considered included: 1. no action; 2. postponing action pending further study; 3. conduct proposed activity using different means such as riprapping or concrete linings of banks, working in the dry using sheet piling and pumping, and removing the stained surface sediments and capping the remaining sediments with filter fabric; and 4. conducting the work at a different location. Each of these alternatives was believed to have greater impacts to the environment, and therefore the proposed alternative, as described above, was selected.

The work is described on the enclosed plans entitled "Lower Hop Brook Restoration Project" on 7 sheets (including the Title Sheet), and revised "July 1, 2008".

LOWER HOP BROOK RESTORATION PROJECT

BANK STABILIZATION, SEDIMENT REMOVAL AND REMEDICATION OF SEASONAL SEEP

HOP BROOK

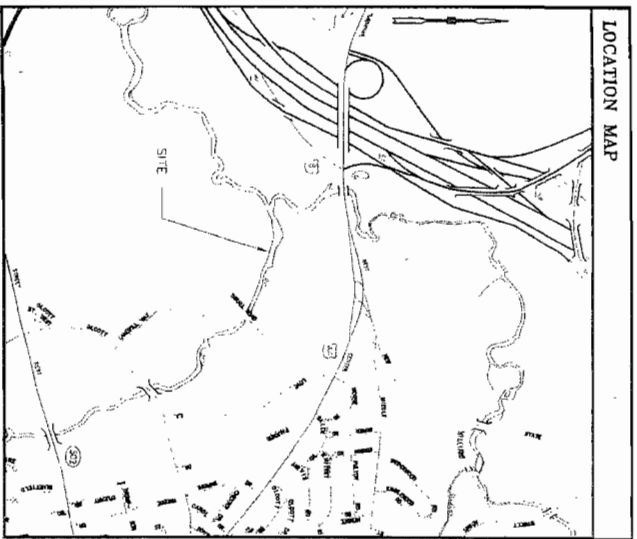
MANCHESTER, CT.

MMI PROJECT NO. 1694-02-9

MAY 1, 2008
REVISED DATE IS 2007
SETTLED MARCH 21, 2008
REVISED MAY 18, 2008

REVISED: JULY 1, 2008

PREPARED FOR TOWN OF MANCHESTER
PUBLIC WORKS DEPARTMENT

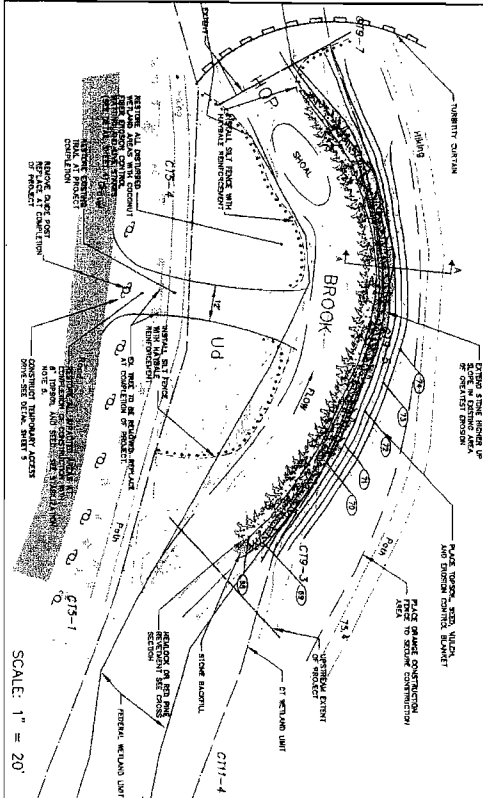


DRAWING INDEX	
1	TITLE SHEET
2	OVERALL PLAN
3	SITE PLAN - STREAMBANK STABILIZATION FLOODWAY CROSS SECTIONS
4	SEDIMENT REMOVAL & SEEP REMEDIATION PLAN - HOCKANUM RIVER / HOP BROOK
5	BANK STABILIZATION DETAILS
6	EROSION & SEDIMENT CONTROL / SITE DETAILS

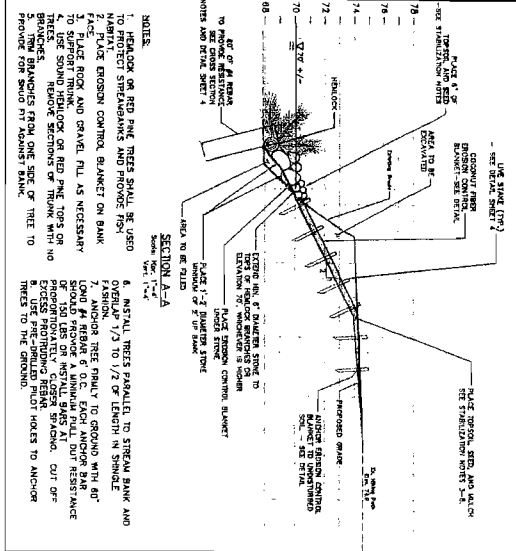
<p>SEAL AND SIGNATURE</p> <p style="text-align: center;">James G. MacBroom</p> <div style="border: 1px solid black; width: 100px; height: 50px; margin: 0 auto;"></div>	<p>MILONE & MACBROOM, INC. Civil, Water, Planning and Transportation Engineering, Landscape Architecture Surveying - Planning 95 Kelly Drive • Shelton, Connecticut 06484 (203) 234-0775 • FAX (203) 232-7755</p>
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P.E. #10788

STABILIZATION AREA #1

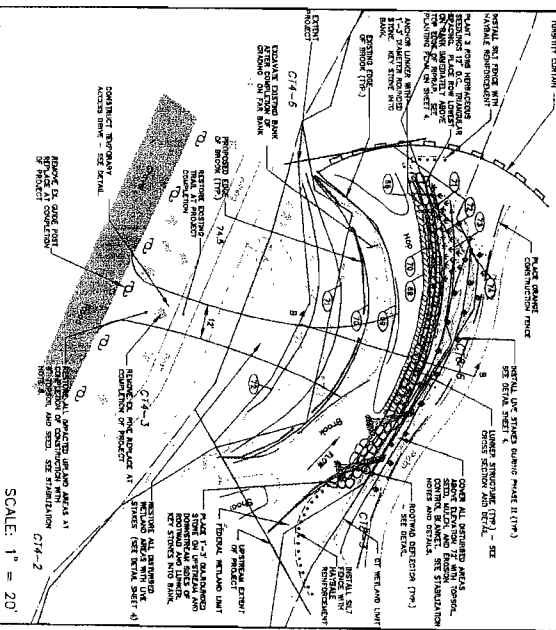


TYPICAL CROSS SECTION AREA #1

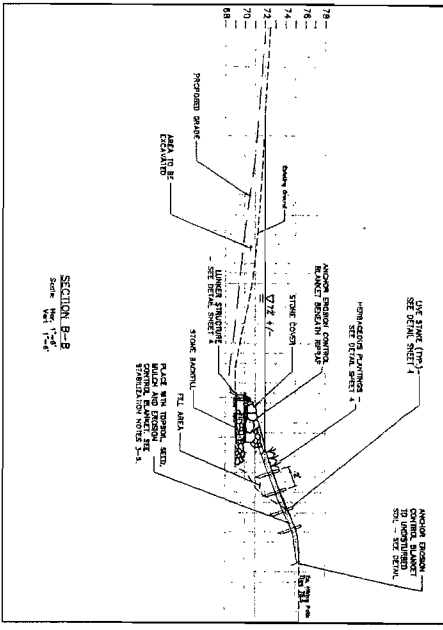


- NOTES:
- HEADLOCK ON RED PINE TREES SHALL BE USED TO PROTECT STREAMBANKS AND PROVEE FROM EROSION.
 - PLACE EROSION CONTROL BLANKET ON BANK TO PROTECT FROM EROSION.
 - PLACE ROCK AND GRAVEL FILL AS NECESSARY TO SUPPORT TRUNK.
 - INSTALL HEADLOCK ON RED PINE TRUNKS OR TRUNKS TO PROTECT FROM EROSION.
 - REMOVE SECTIONS OF TRUNK WITH NO BRANCHES FROM ONE SIDE OF TREE TO PROVEE FOR SHAD AT ADJACENT BANK.

STABILIZATION AREA #2



TYPICAL CROSS SECTION AREA #2



- NOTES:
- HEADLOCK ON RED PINE TREES SHALL BE USED TO PROTECT STREAMBANKS AND PROVEE FROM EROSION.
 - PLACE EROSION CONTROL BLANKET ON BANK TO PROTECT FROM EROSION.
 - PLACE ROCK AND GRAVEL FILL AS NECESSARY TO SUPPORT TRUNK.
 - INSTALL HEADLOCK ON RED PINE TRUNKS OR TRUNKS TO PROTECT FROM EROSION.
 - REMOVE SECTIONS OF TRUNK WITH NO BRANCHES FROM ONE SIDE OF TREE TO PROVEE FOR SHAD AT ADJACENT BANK.

- STABILIZATION NOTES
- ALL IN-CHANNEL WORK (PHASE 1) TO BE CONDUCTED IN SEPTMBER, WITH COMPLETION BY SEPTMBER 30.
 - PLANT LIVE STAKES (PHASE 1) AFTER LEAVES HAVE FALLEN WITH COMPLETION BY NOVEMBER 15.
 - REMOVE AND STOCKPILE ROUNDED STONE FROM EXISTING AND STABILIZED TO BE FILLED. USE ROUNDED STONE TO LINE NEW STREAMBED.
 - ALL TOPSOIL TO HAVE A MINIMUM THICKNESS OF 6".
 - GRASS SEED TO BE NEW ENGLAND EROSION CONTROL PRESENTATION MIX FOR MOST SITES. SEEDS: IN AMHERST PLAYS, OR EQUIVALENT. APPLY SEED, MULCH, AND FERTILIZER ACCORDING TO SPECIFIC SITE RECOMMENDATIONS.
 - CONTRACTOR TO PROVIDE AND MAINTAIN WITH BLENDED TOPSOIL AND MULCH WITH FERTILIZERS OR EQUIVALENT. SEE DETAIL SHEET 4 FOR STRIPING PLAN.
 - SEE SHEET 1 FOR SITE ACCESS INFORMATION.
 - ALL EXCAVATED MATERIALS TO BE REWORKED TO AND 1/2 STATION OF SHEET 1.

CONSTRUCTION SEQUENCE

- PRIOR TO COMMENCEMENT OF SITE ACTIVITIES, PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE MANAGER, ENGINEERING DIVISION STAFF AND THE CONTRACTOR. AT THIS MEETING THE CONTRACTOR SHALL PRESENT A CONSTRUCTION CONTROL PLAN FOR THE SITE FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS TO STAKE THE LIMITS OF DISTURBANCE AND BEYOND THE LIMITS OF DISTURBANCE TO TAKE PLACE THE WORK OF CONSTRUCTION.
- THE CONTRACTOR IS TO INSTALL GRASSER CONSTRUCTION FENCE TO BEYOND THE LIMITS OF DISTURBANCE. TO DISTURBANCE IS TO TAKE PLACE OUTSIDE THE LIMITS OF WORK SHOWN.
- CONTRACTOR TO INSTALL EROSION AND EROSION CONTROLS AND ACCESS ROADS.
- STAKE AND GRIP SITE AND STAKE TOPSOIL, PLANT AND MULCH REPAIRS AND STAKE EROSION CONTROL.
- CONTRACTOR TO CONSTRUCT WATER CONTROL MEASURES IF NECESSARY.
- CONTRACTOR TO COMPLETE INSTALLED STABILIZATION WORK PRIOR TO COMMENCEMENT OF STREAMBANK STABILIZATION WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND MONITORING EROSION CONTROL MEASURES AND TO MAINTAIN A COPY OF ALL PLANS AND EROSION CONTROL MEASURES ON-SITE AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR TO PERFORM PERIODIC SITE INSPECTIONS TO ENSURE ADEQUATE STABILIZATION.

NOTE:

INSTALLATION OF ALL STREAM AND EROSION CONTROL MEASURES AND ANY NECESSARY WATER CONTROL MEASURES MUST BE APPROVED TO COMPLETION BY THE MANAGER, ENGINEERING DIVISION PRIOR TO COMMENCEMENT OF CONSTRUCTION.

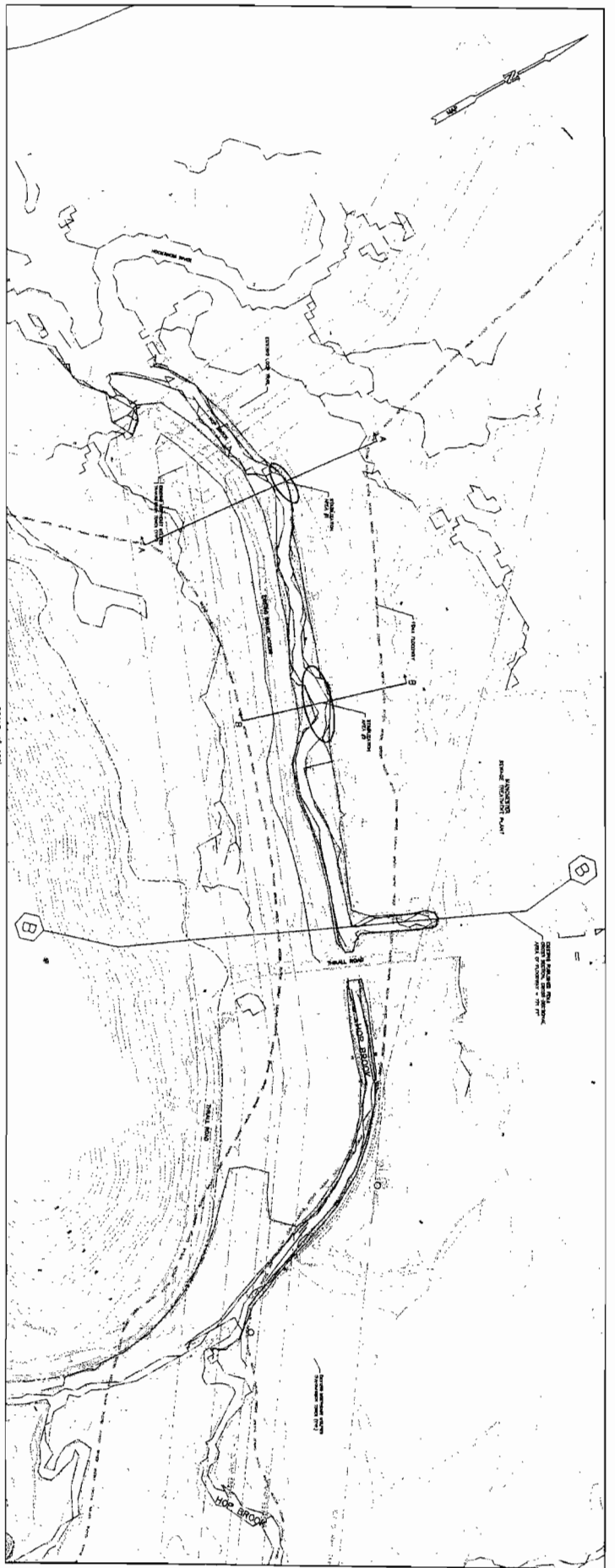
WORK AT STABILIZATION AREA 1 AND AREA 2 SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF CONSTRUCTION AS DESCRIBED ON SHEET 3.

I hereby certify that this plan is in compliance with the provisions of the Massachusetts General Laws, Chapter 270A, Section 13B, and the Massachusetts Department of Environmental Protection and the Commonwealth of Massachusetts, Chapter 270A, Section 13B, as amended, dated 2002, or amendment.

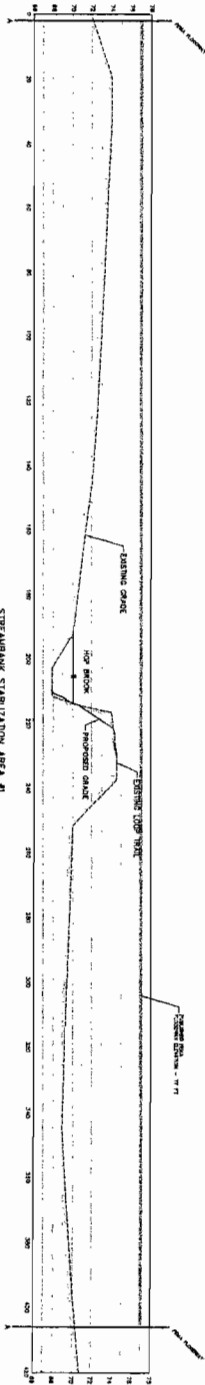
Signature: _____
 Date of Approval: _____

SEE SHEET 5 FOR PROJECT NOTES
 SEE SHEET 1 FOR LEGEND

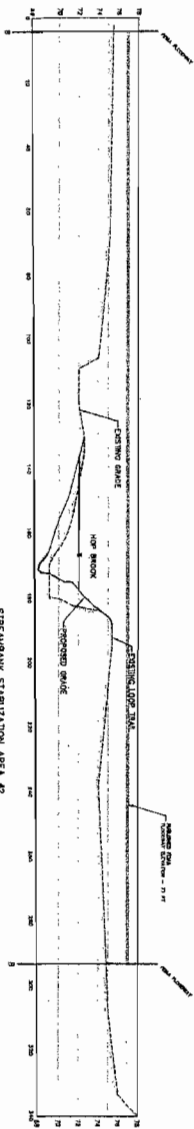
<p>REVISIONS</p> <p>REVISED: 5/25/08</p> <p>REVISED: 5/26/08</p> <p>REVISED: 5/26/08</p> <p>REVISED: 7/01/08</p>	<p>SITE PLAN - STREAMBANK STABILIZATION</p> <p>LOWER HOP BROOK RESTORATION PROJECT</p> <p>LOWER HOP BROOK</p> <p>OLGOTT STREET / THRALL ROAD</p>	<p>MILONE & MACBROOM</p> <p>100 State Street, Suite 200 Boston, MA 02109 (617) 271-1773 Fax (617) 271-2733</p>	<p>PROJECT NO. 104-A-08</p> <p>DATE: MAY 1, 2008</p> <p>SCALE: AS NOTED</p> <p>2</p>
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SCALE 1" = 100'



STREAMBANK STABILIZATION AREA A
SECTION A-A
SCALE 1" = 10'



STREAMBANK STABILIZATION AREA B
SECTION B-B
SCALE 1" = 10'

FEMA FLOODWAY CROSS SECTIONAL AREA TABLE

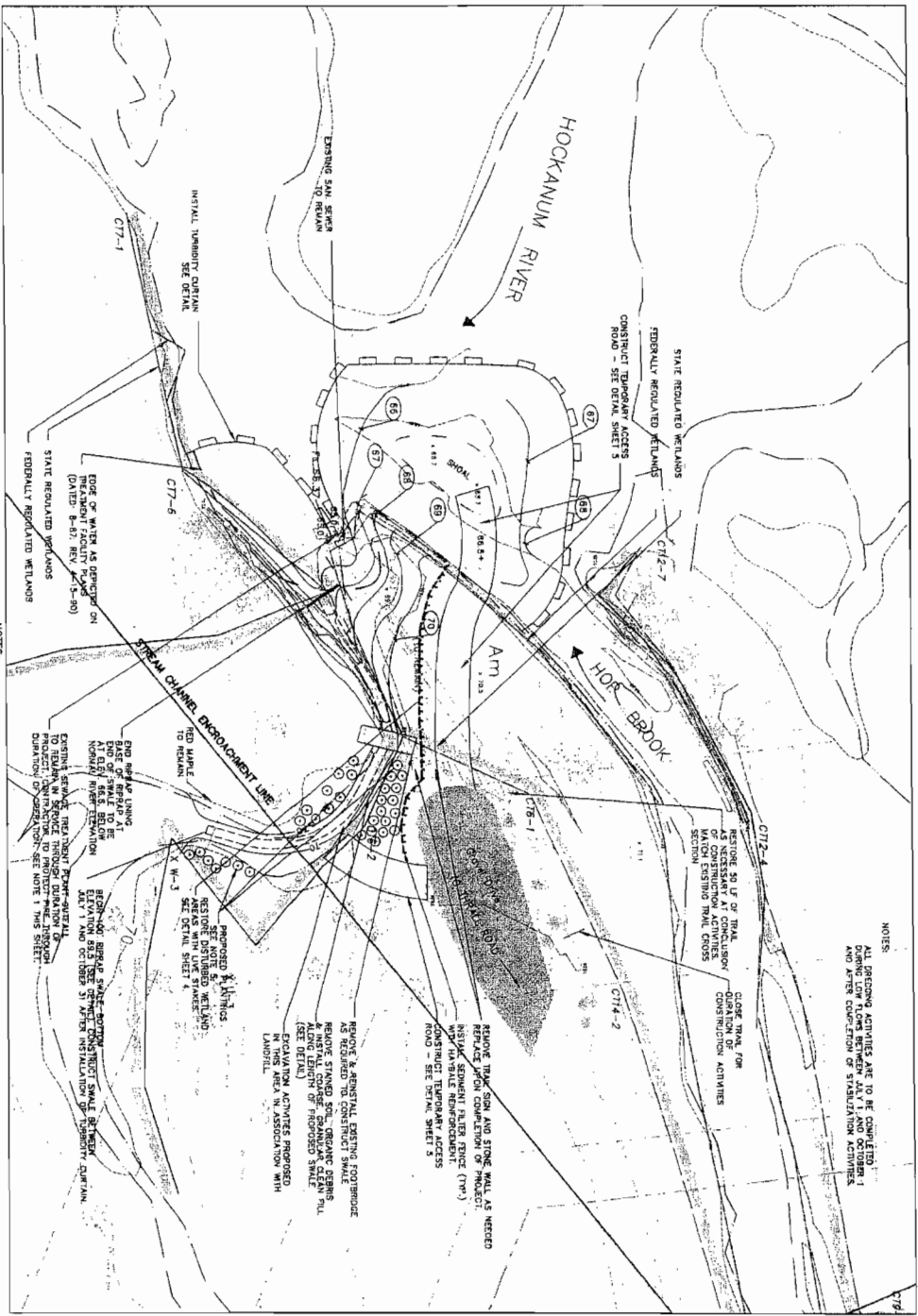
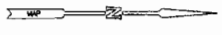
	EXISTING (FT)	PROPOSED (FT)	NET CHANGE (FT)
SECTION A-A	230.77	233.58	2.81 (Gain)
SECTION B-B	895.13	901.08	5.95 (Gain)



FLOODWAY CROSS SECTIONS
LOWER HOP BROOK RESTORATION PROJECT
LOWER HOP BROOK AREA
 OLCOTT STREET / THRALL ROAD
 MANCHESTER, CONNECTICUT

REVISIONS
 REVISED: 5/25/03
 REVISED: 11/10/03
 REVISED: 1/31/08
 REVISED: 5/28/08
 REVISED: 7/01/08

MILONE & MACBROOM
 99 Realty Drive
 Cheshire, Connecticut 06410
 (203) 271-1773 Fax (203) 271-7773
 www.miloneandmacbroom.com



NOTES:
 ALL DESIGN ACTIVITIES ARE TO BE COMPLETED DURING LOW FLOOD BETWEEN JULY 1 AND OCTOBER 1 AND AFTER COMPLETION OF STABILIZATION ACTIVITIES.

- CONSTRUCTION SEQUENCE**
1. PRIOR TO COMMENCEMENT OF SITE ACTIVITIES A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE WASHINGTON ENGINEERING DIVISION, DEP STAFF AND THE CONTRACTOR. AT THIS MEETING ONE PERSON SHALL BE DESIGNATED AS REPRESENTATIVE FOR THE DIVISION OF CONSTRUCTION ACTIVITIES.
 2. THE CONTRACTOR IS TO MAINTAIN THE LIMITS OF DISTURBANCE AND VEGETATION TO REMAIN. NO DISTURBANCE IS TO TAKE PLACE OUTSIDE OF THE LIMITS OF DISTURBANCE AND VEGETATION TO REMAIN.
 3. INSTALL TEMPORARY CURB AND STORMWATER COLLECTION SYSTEMS AND MAINTAIN ACCESS ROAD.
 4. CLEAR AND GRUB SITE AND STORMWATER COLLECTION SYSTEMS AND MAINTAIN ACCESS ROAD.
 5. INSTALL TEMPORARY CURB.
 6. THE SCOUR AND EROSION CONTROL PLAN SHALL BE MONITORED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND RESUBMITTED TO THE DIVISION AS NECESSARY BY CHANGING SITE CONDITIONS.
 7. THE SITE SHOULD BE KEPT CLEAR OF LOOSE DEBRIS, LITTER AND BUILDING MATERIALS SUCH THAT NO MATERIAL ENTERS THE WATERS OF WETLANDS.
 8. A COPY OF ALL PLANS AND REVISIONS SHALL BE MAINTAINED ON-SITE AT ALL TIMES DURING CONSTRUCTION.
 9. CONTRACTOR TO FURNISH PERIODIC SITE INSPECTIONS TO ENSURE ACCURATE ESTIMATION.

- NOTES:**
1. CONTRACTOR RESPONSIBLE FOR PROTECTING SEWER TREATMENT PLANT OUTFALL PIPE DURING CONSTRUCTION. PROTECTION DETAILS AND LOAD DISTRIBUTION CALCULATIONS SHALL BE APPROVED BY THE WASHINGTON WATER AND SEWER DIVISION AND ENGINEERING DEPARTMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 2. INSTALLMENT OF ALL SEWER AND EROSION CONTROL AND ANY ACCESSORY WASHINGTON ENGINEERING DEPARTMENT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 3. HIGH VOLTAGE AERIAL CABLES CROSS THE EXISTING ACCESS TRAIL.
 4. COMPLETE METEOROLOGICAL STABILIZATION AT AREA # 1 AND # 2 PRIOR TO DRAINING OPERATIONS.
 5. PROPOSED RESTORATION PLANNING FOR SEED REVEGETATION AREA:
 (A) SLANT DOMED
 (B) SPECIED ALDER
 (C) NORTHERN ARBORWIT
 (D) AMERICAN ELDERBERRY
 (E) NORTHERN ARBORWIT
 (F) AMERICAN ELDERBERRY
 (G) NORTHERN ARBORWIT
 (H) AMERICAN ELDERBERRY
 (I) NORTHERN ARBORWIT
 (J) AMERICAN ELDERBERRY
 (K) NORTHERN ARBORWIT
 (L) AMERICAN ELDERBERRY
 (M) NORTHERN ARBORWIT
 (N) AMERICAN ELDERBERRY
 (O) NORTHERN ARBORWIT
 (P) AMERICAN ELDERBERRY
 (Q) NORTHERN ARBORWIT
 (R) AMERICAN ELDERBERRY
 (S) NORTHERN ARBORWIT
 (T) AMERICAN ELDERBERRY
 (U) NORTHERN ARBORWIT
 (V) AMERICAN ELDERBERRY
 (W) NORTHERN ARBORWIT
 (X) AMERICAN ELDERBERRY
 (Y) NORTHERN ARBORWIT
 (Z) AMERICAN ELDERBERRY
 6. SEEDS ALL DISTURBED AREAS WITHIN WETLANDS USING NEW ENGLAND EROSION CONTROL FOR MOST SITES AND OTHER TYPES PROVIDED BY NEW ENGLAND WETLANDS, INC. FOR PROPOSED STORMWATER/DEWATERING AREA LOCATION. SEE SHEET 1.

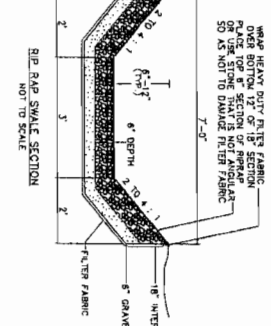
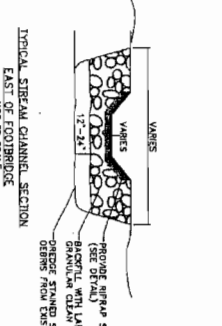
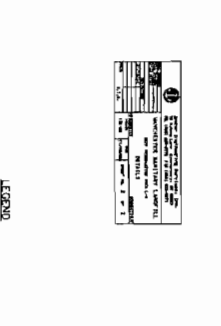
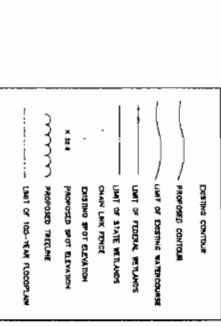
LEGEND

- EXISTING CURB
- PROPOSED CURB
- LIMIT OF EXISTING WETLANDS
- LIMIT OF PROPOSED WETLANDS
- LIMIT OF SLANT DOMES
- EXISTING CURB
- PROPOSED CURB
- PROPOSED SEED REVEGETATION
- PROPOSED TRAIL
- LIMIT OF 100-YEAR FLOODPLAIN

REVISIONS

NO.	DATE	DESCRIPTION
1	5/25/03	REVISED: 5/25/03
2	11/10/03	REVISED: 11/10/03
3	3/11/08	REVISED: 3/11/08
4	5/20/08	REVISED: 5/20/08

THIS PLAN WAS PREPARED FOR REGULATORY REVIEW ONLY. IT IS NOT INTENDED FOR CONSTRUCTION.



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2	11/10/03	REVISED: 11/10/03
3	3/11/08	REVISED: 3/11/08
4	5/20/08	REVISED: 5/20/08

LEGEND

- EXISTING CURB
- PROPOSED CURB
- LIMIT OF EXISTING WETLANDS
- LIMIT OF PROPOSED WETLANDS
- LIMIT OF SLANT DOMES
- EXISTING CURB
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REVISIONS

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4	5/20/08	REVISED: 5/20/08

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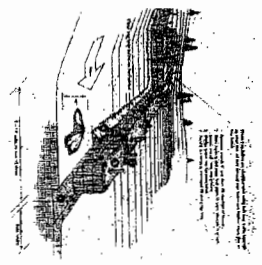
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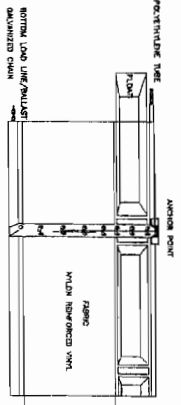
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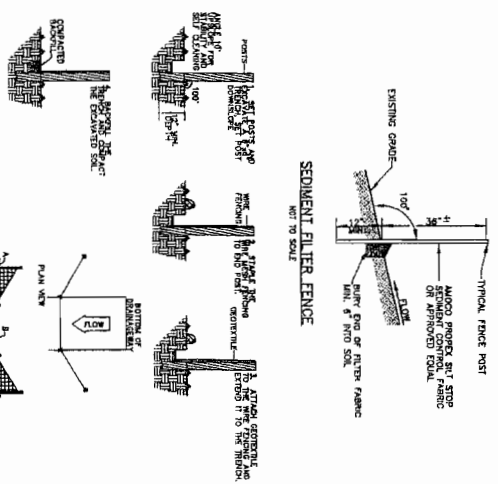
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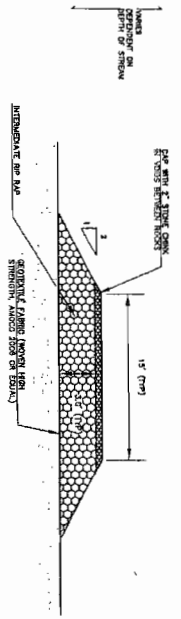
CONSTRUCTION ENTRANCE PAD
N.T.S.



MID-WEIGHT DURABILITY CURTAIN
N.T.S.



PLACEMENT AND CONSTRUCTION OF A SYNTHETIC FILTER BARRIER
NOT TO SCALE



TEMPORARY ACCESS DRIVE
N.T.S.

- GENERAL NOTES**
1. WORKING DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.
 2. ALL DIMENSIONS AND LOCATIONS SHALL BE GIVEN IN THE FIELD NOTES UNLESS OTHERWISE SPECIFIED.
 3. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE EROSION CONTROL MEASURES SHOWN ON THESE DRAWINGS. THE USER SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE AND REPAIR OF THESE MEASURES.
 4. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
 5. THE USER SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES.
 6. THE USER SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND RESTORATION OF ALL EROSION CONTROL MEASURES AT THE END OF THE PROJECT.
 7. THE USER SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
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 15. THE USER SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF ALL EXISTING ARCHAEOLOGICAL RESOURCES.
 16. THE USER SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF ALL EXISTING PALEONTOLOGICAL RESOURCES.

1. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED UNTIL THE EROSION CONTROL MEASURES ARE NO LONGER NEEDED. THE USER SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE AND REPAIR OF THESE MEASURES.
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- SEDIMENT & EROSION CONTROL SPECIFICATIONS**
1. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED UNTIL THE EROSION CONTROL MEASURES ARE NO LONGER NEEDED.
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- LAND GRADING**
1. ALL LAND GRADING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE APPROPRIATE AGENCIES.
 2. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
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- TOPSOILING**
1. ALL TOPSOILING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE APPROPRIATE AGENCIES.
 2. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
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- TEMPORARY VEGETATIVE COVER**
1. ALL TEMPORARY VEGETATIVE COVER SHALL BE INSTALLED AND MAINTAINED UNTIL THE TEMPORARY VEGETATIVE COVER IS NO LONGER NEEDED.
 2. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
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NO.	DATE	DESCRIPTION
1	1/15/09	ISSUED FOR PERMIT
2	2/10/09	REVISED TO ADD NOTES

EROSION & SEDIMENTATION CONTROL / SITE DETAILS
LOWER HOP BROOK RESTORATION PROJECT
LOWER HOP BROOK
 010207 STREET / THRALL ROAD

MILONE & MACBROOM
 79 Haver Drive
 Danvers, Colorado 80410
 (970) 771-1773 Fax (970) 772-9733

DATE: MAY 1, 2009
 SHEET: 48 NORTH
 SCALE: AS NOTED
 PROJECT: 09-04-02
 DRAWN BY: JMM
 CHECKED BY: JMM

6