



PUBLIC NOTICE

**US Army Corps
of Engineers®**

New England District

Maine Project Office

675 Western Avenue, #3

Manchester, Maine 04351

Date: May 22, 2007

Comment Period Ends: June 16, 2007

File Number: NAE-2006-2904

In Reply Refer To: Shawn B. Mahaney

Or by e-mail: shawn.b.mahaney@usace.army.mil

15 Day Comment Period

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: Downeast Salmon Federation, P.O. Box 201, Columbia Falls, Maine 04623.

ACTIVITY

A detailed description and plans of the applicant's activity are attached.

WATERWAY AND LOCATION OF THE PROPOSED WORK

This work is proposed in the East Machias River off Willow Street at East Machias, Maine. The proposed location on the USGS MACHIAS quadrangle sheet is at UTM coordinates 4954851 N and 627458 E.

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 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.

SECTION 106 COORDINATION

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)

ENDANGERED SPECIES CONSULTATION

The New England District, Army Corps of Engineers has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, which might occur at the proposed project site during the construction and subsequent operation/use period sought by the applicant. We have undertaken a Biological Assessment (BA) of the potential for interactions and adverse impacts to Atlantic salmon. Consultation has been initiated with US Fish & Wildlife Service pursuant to Section 7 of the Endangered Species Act since salmon in this location are part of a distinct population segment listed by the Services as endangered.

The States of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved **Coastal Zone Management Programs**. Where applicable the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

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

- (X) 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.

CENAE-R
FILE NO. NAE-2006-2904

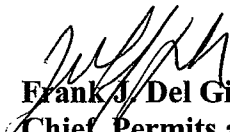
In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Shawn Mahaney at (207)-623-8367 ext 4. or (978) 318-8492 at our Manchester, Maine Project Office.

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.


Frank J. Del Giudice
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: _____

CENAE-R

FILE NO. NAE-2006-2904

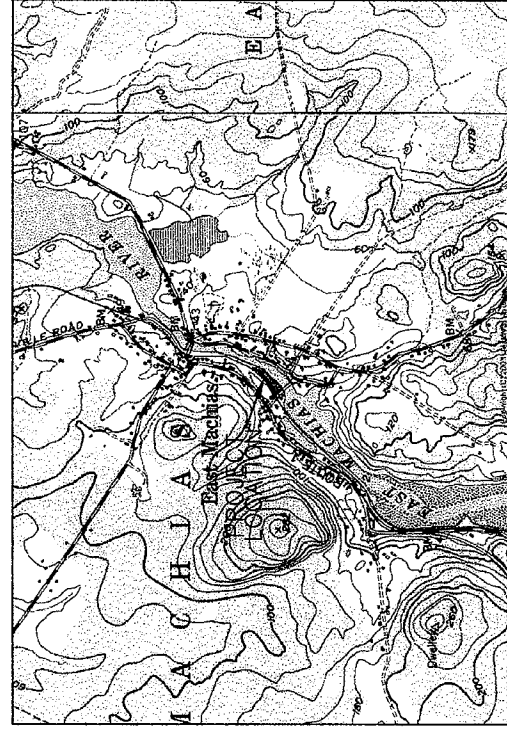
PROPOSED WORK AND PURPOSE

Place approximately 8,277SF (0.19 acres) of fill below the high tide line in the East Machias River at East Machias, Maine in conjunction with the installation of a water intake structure for the East Machias Aquatic Research Center (EMARC).

The work is described on the enclosed plans entitled "East Machias Aquatic Research Center, Freshwater Intake Structure, Willow Street, East Machias In Washington County, Maine" on six (6) sheets, with sheets 1-5 undated and sheet 6 dated "18-01-07."

East Machias Aquatic Resource Center Freshwater Intake Structure

Willow Street, East Machias in Washington County, Maine



LOCATION MAP: USGS QUADRANGLE: MACHIAS, MAINE
MAPTECH® USGS TOPOGRAPHIC SERIES™, ©MAPTECH®, INC. 978-833-3000,
WWW.MAPTECH.COM/TOPO

NOTES:

BENCHMARK NO.: TM CORNER USGS ELEVATION: SEE DRAWING			
NO.	DATE	BY	REVISION
1	02-05-04	J.P.	ISSUE FOR PERMITTING
2	02-05-04	J.P.	ISSUE FOR PERMITTING
3	02-05-04	J.P.	ISSUE FOR PERMITTING
4	02-05-04	J.P.	ISSUE FOR PERMITTING
5	02-05-04	J.P.	ISSUE FOR PERMITTING
6	02-05-04	J.P.	ISSUE FOR PERMITTING
7	02-05-04	J.P.	ISSUE FOR PERMITTING
8	02-05-04	J.P.	ISSUE FOR PERMITTING
9	02-05-04	J.P.	ISSUE FOR PERMITTING
10	02-05-04	J.P.	ISSUE FOR PERMITTING
CLIENT: The Downeast Salmon Federation, Inc. Willow Street, East Machias, Maine			
TITLE: Title and Site Location			
CAD FILE: geomorphic.dwg PROJECT NO.: 02-05-04	SCALE: As shown	DRAWING NO.: 1	

LEGEND:

- CONCRETE MONUMENT FOUND
- UTILITY POLE (WITH ADDRESS)
- CALCULATED POINT
- LABOR PROPERTY LINE
- APPROXIMATE EXTERIOR
- APPROXIMATE INTERIOR
- FACED BOUNDARY
- OVERHEAD UTILITIES
- APPROXIMATE EDGE OF PAVEMENT
- APPROXIMATE EDGE OF GRAVEL
- CENTRALLINE
- APPROXIMATE HIGH WATER MARK
- THIN BARED 4" NOMINAL HDPE PIPES
- VEGETATED STONE PROTECTION
- NEW FLOODPLAIN FILL
- SUBMERGED INTAKE STRUCTURE
- POTTED TREE
- CONTAINERIZED SHRUBS

Fill penstock channel behind existing island to create new floodplain surface. Seed with native floodplain seed mix and plant with potted trees and containerized shrubs.

Protect existing shrubs and trees on island between Penstock Channel and East Machias River.

Vegetated Stone Protection at upstream extent of floodplain fill. Placed in the dry and above normal elevation of the East Machias River.

Vegetated Stone Protection to stabilize bank after pipe installation

Submerged Intake Structure

Vegetated Stone Protection at downstream extent of floodplain fill. Placed in the dry and above normal water elevation of the East Machias River.

Install twin 4" nominal HDPE pipes to lines and grades shown in cross-sections and profile drawings

NOTES:

Materials Specifications

4" Nominal HDPE Pipe
 4.5' O.D.
 3.9' I.D.
 100' minimum length of pipe. Contractor's required to estimate and verify quantities prior to building.

Floodplain Fill Material
 Coarse, non-erosive, graded and suitable material. Prior to placement, material shall be tested for compaction, moisture content, and plasticity. Engineer's estimate is 1500 cubic yards of Floodplain Fill. Contractor is to estimate and verify quantities prior to building.

Bedding Material
 Engineer's estimate is 50 cubic yards of bedding material. Contractor is required to estimate and verify quantities prior to building.

Vegetated Stone Protection
 Vegetated Stone shall be hard, durable, angular in shape, resistant to weathering and to wave action, free of organic material, and shall meet the gradation requirements specified.

Vegetation
 Minimum (mils) 15 21
 Maximum (mils) 14 18
 D10 1 8
 D30 1 8
 D75 1 8
 D150 1 11

Engineer's estimate is 146 cubic yards of Vegetated Stone. Contractor is required to estimate and verify quantities prior to building.

Topsoil
 Topsoil shall not contain stones, lumps, roots or similar material. Topsoil shall be a minimum of 4.5' deep. Topsoil shall have a minimum organic content of not less than 2.75 percent by weight. It shall be tested for moisture content and organic content. It shall be necessary to obtain this minimum organic content. Engineer's estimate is 100 cubic yards of Topsoil. Contractor is required to estimate and verify quantities prior to building.

NO.	DATE	BY	REVISION
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45	JUL	JM	REV
46	JUL	JM	REV
47	JUL	JM	REV
48	JUL	JM	REV
49	JUL	JM	REV
50	JUL	JM	REV

VEGETATED STONE PROTECTION
 4 plants per 4' x 4' containerized block.

Species	Quantity
Sa	20
Pr	20
Co	20
Cr	20
Ar	20
Am	20
Vt	20

NEW FLOODPLAIN SURFACE
 Containerized shrubs and potted trees

Common Name	Botanical Name	Quantity
Green Ash	<i>Fraxinus pennsylvanica</i>	3
Black Alder	<i>Alnus incana</i>	3
Spice Maple	<i>Acer spicatum</i>	3
Red Maple	<i>Acer rubrum</i>	4
Sweetgum	<i>Liquidambar styraciflua</i>	1
Shrubs		
Sa	<i>Saxifraga</i>	25
Sa	<i>Saxifraga</i>	15
Sa	<i>Saxifraga</i>	15
Cr	<i>Cornus</i>	20

NEW FLOODPLAIN SURFACE
 Seed Mix:

Species	Quantity
Nature Pro - Wet Native Mix	1
Prinks Conogram	1
Canada Bluegrass	1
Canada Wild Ryegrass	1
Manitowish	1
Manitowish	1

(Application rate: 1500 lbs/acre)

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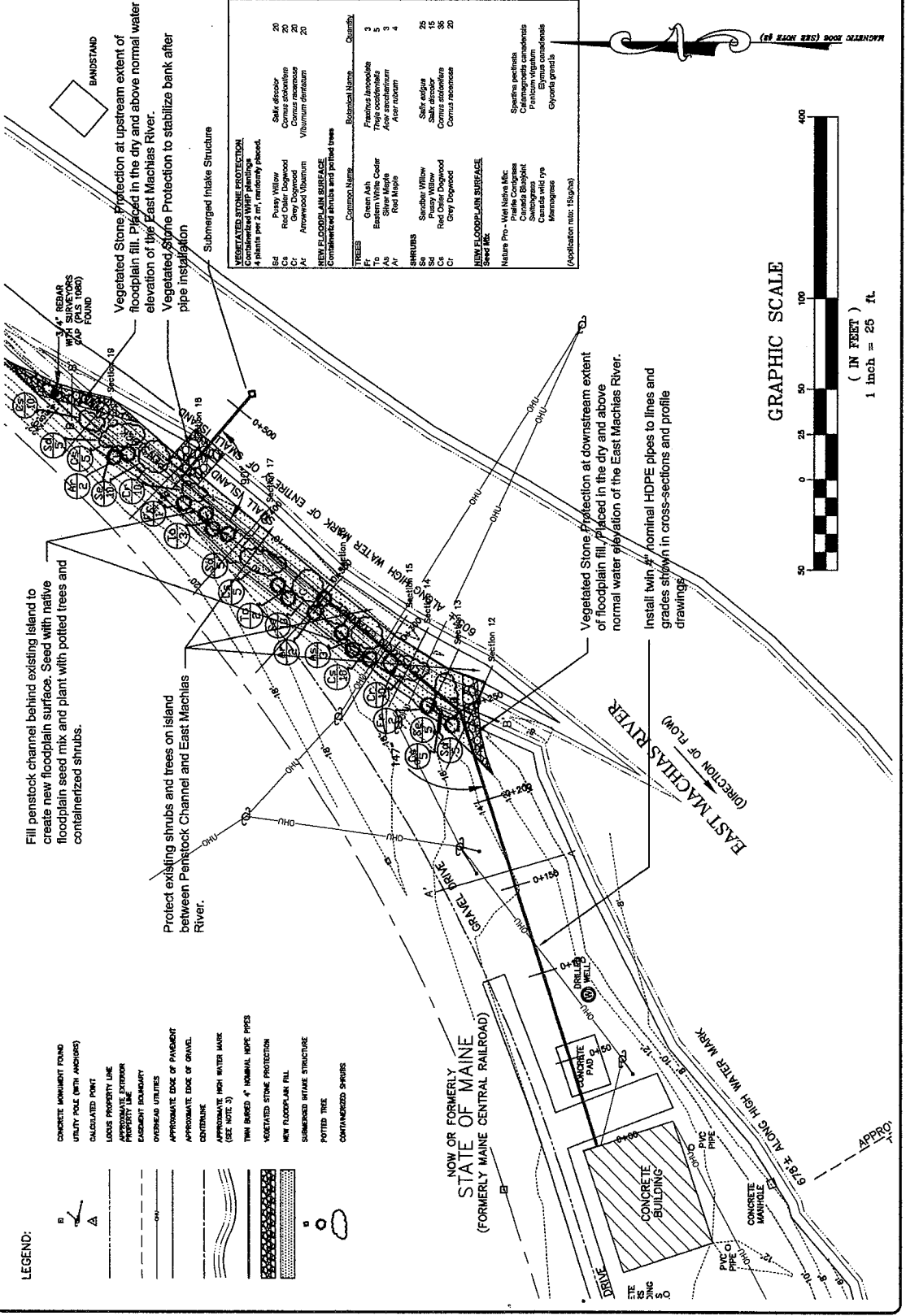
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PARISH geomorphic
 300 State Street
 Portland, ME 04102
 TEL: 207-752-1144
 FAX: 207-752-8555
 web@parishgeomorphic.com

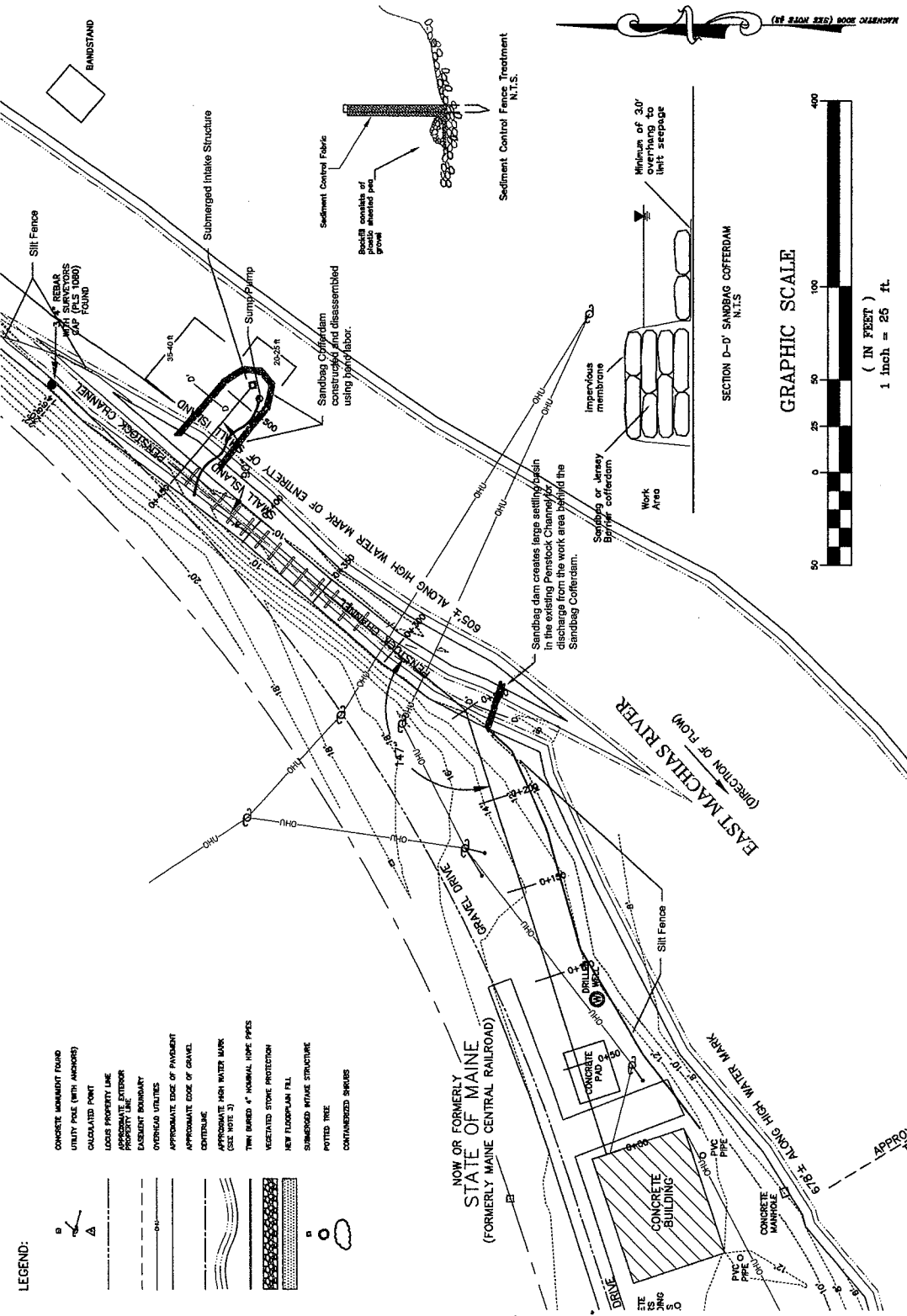
CLIENT:
 The Downeast Salmon Federation, Inc.
 Willow Street, East Machias, Maine

TITLE:
 Post Construction Conditions

SCALE: As shown
PROJECT NO.: 02-06-04
DRAWING NO.: 3

LEGEND:

- CONCRETE MONUMENT FOUND
- UTILITY POLE (WITH ANCHORS)
- CALCULATED POINT
- LOCAL PROPERTY LINE
- APPROXIMATE EXTERIOR PROPERTY LINE
- EXISTENT BOUNDARY
- OVERHEAD UTILITIES
- APPROXIMATE EDGE OF PAVEMENT
- APPROXIMATE EDGE OF GRAVEL DRIVEWAY
- CENTRIQUE
- APPROXIMATE HIGH WATER MARK (SEE NOTE 5)
- TRIM BARED 4" NOMINAL HDPE PIPES
- VEGETATED STONE PROTECTION
- NEW FLOODPLAIN FILL
- SUBMERGED INTAKE STRUCTURE
- POSTED TREE
- CONTAMINATED SERIES



NOTES:

- TEMPORARY STREAM DIVERSION**
- Construct sandbag dam at downstream end of Penstock Channel. This dam will allow the entirety of the penstock channel to act as a settling basin for the sump pump discharge from behind the sandbag cofferdam (see step 2.)
 - Construct sandbag cofferdam (using hand labor only in the channel) to isolate work area from the main channel of the East Machias River.
 - Install sump pump to capture subsurface drainage into the work area and discharge into the settling basin constructed using the Penstock Channel (see step 1).
 - Install Submerged Intake Structure and approximately 60 ft of twin HDPE pipe as shown in the drawings until pipe is to grade in the Penstock Channel.
 - Repair approximately 25 feet of bank as shown in drawings with Vegetated Protection Stone.
 - When no further equipment work is needed in the main channel of the East Machias River, remove sump pump and Sandbag Cofferdam using hand labor.
 - Remove sandbag dam at the downstream end of the Penstock Channel and allow Penstock channel to dry before installing pipe and Floodplain Fill in the Penstock Channel.

REVISION
 DATE BY
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 3 01/11/11 JMS
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PARISH geomorphic
 340 Ocean Street
 Portland, ME 04101
 TEL: 603-752-3400
 FAX: 603-752-3401
 www.parishgeomorphic.com

CLIENT:
 The Downeast Salmon Federation, Inc.
 Willow Street, East Machias, Maine

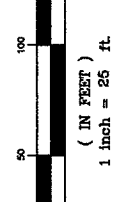
TITLE:
 EROSION AND
 SEDIMENT CONTROL PLAN

SCALE: As shown

PROJECT NO.: 12-06-14

DRAWING NO.: 4

SECTION D-D' SANDBAG COFFERDAM
 N.T.S.



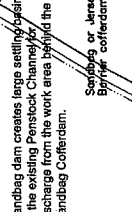
GRAPHIC SCALE
 (IN FEET)
 1 inch = 25 ft.



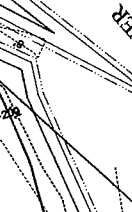
Sediment Control Fence Treatment
 N.T.S.



Silt Fence



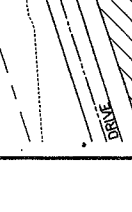
Silt Fence



Silt Fence



Silt Fence



NOTE:

Material Specifications:

- 4" Nominal HDPE Pipe
- SUR 17
- 4.5" O.D.

Engineer's estimate is 1000 lb. of pipe. Contractor is required to estimate and verify quantities prior to bidding. Flood resistant, non-combustive, gravel and cobble material. Fill-on gravel is acceptable so long as it is free of organics, cohesive fill and clays. 10.00 shall be used when 8 inches of gravel is required. Fill shall be used when 12.00. Contractor is required to estimate and verify quantities prior to bidding.

Backfill

K-7, each main embed pipe

Engineer's estimate is 50 cubic yards of bedding Material. Contractor is required to estimate and verify quantities prior to bidding.

Vegetated Protection Stone

Vegetated Protection Stone shall be hard, durable, angular and free from cracks, splits, holes, structure defects, and organic material, and shall meet the gradation requirements of 20.00. Minimum (tonnes)

Maximum (tonnes)	15
10.00	14
5.00	12
2.50	12
1.25	15
0.625	18
0.3125	30

Engineer's estimate is 146 cubic yards of Vegetated Protection Stone. Contractor is required to estimate and verify quantities prior to bidding.

Tops (it) shall not contain stones, lumps, roots or similar objects larger than 2 inches in any dimension and shall not contain any material which would reduce the minimum organic content of rock less than 2.75 percent. When the organic content is less than 2.75 percent, it shall be increased by adding approved compost material. Contractor is required to estimate and verify quantities prior to bidding.

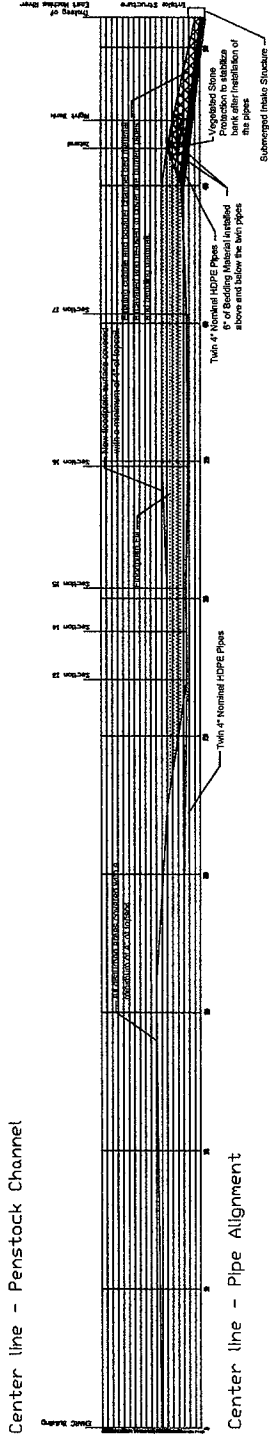
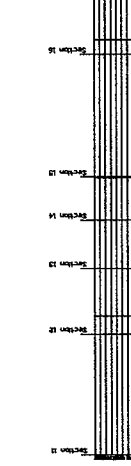
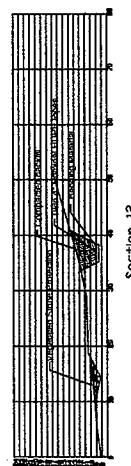
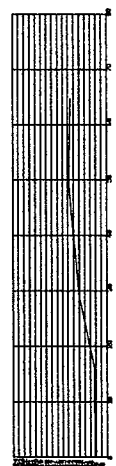
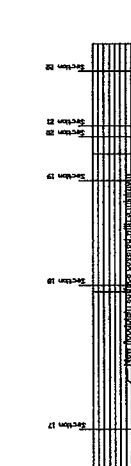
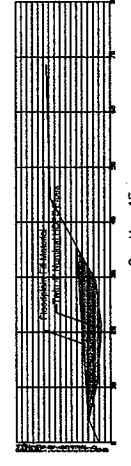
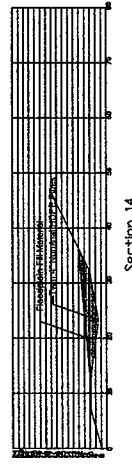
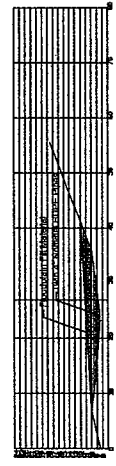
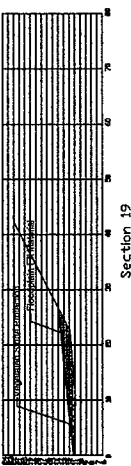
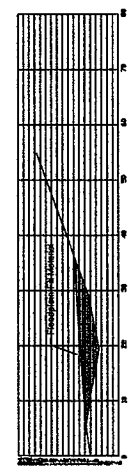
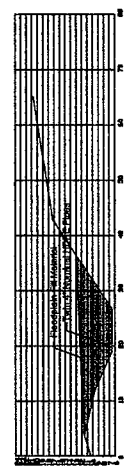
BENCHMARK NO.: TM 0010, 0020
ELEVATION: 287.00' - 288.00'

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PARISH geomorphic
344 Ocean Street
P.O. Box 100, N.A.
Newport News, VA 23604
TEL: 800-752-8840
TEL: 804-747-0999
FAX: 804-747-0999

CLIENT: The Downeast Salmon Federation, Inc.
Willow Street, East Machias, Maine

TITLE: Cross-section and Profile Details
SCALE: As Shown
PROJECT NO.: 02-06-04 DRAWING NO.: 5



NOTES:

Material Specifications

4" Nominal HDPE Pipe
 SDR 17
 1.5' ID
 1.5' D
 Engineer's estimate is 1040 ft. of pipe. Contractor is required to estimate and verify quantities prior to bidding.
 Floodplain Fill Material
 grout and cobble material. Fill should be placed in lifts and compacted. Cohesive fills and silts. D100 shall be less than 5 inches. Engineer's estimate is 1500 cubic yards of Floodplain Fill. Contractor is required to estimate and verify quantities prior to bidding.
 Bedding Material
 1/2" to 1/4" minus crushed gravel
 10% to 20% sub 20 mesh. Contractor is required to estimate and verify quantities prior to bidding.
 Vegetated Protection Stone
 shall be hard, durable, angular in shape, resistant to weathering and to water action, free from overhangs, spalls, slake, etchmarks, defects, and organic material, and shall meet the gradation requirements specified.
 Material
 Minimum (cubic) Yards
 D50 14
 D60 18
 D80 12
 D100 9
 D150 8
 D200 8
 D300 11

Topsoil
 shall not contain stones, clumps, moss or similar objects larger than 2 inches in any dimension and shall have not less than a 5.5 pH value. Topsoil shall have a minimum organic content of not less than 2.75 percent. Contractor's estimate is 100 cubic yards of Topsoil. Contractor is required to estimate and verify quantities prior to bidding.
 BENCHMARK NO.: TRM CSDVD 15328
 ELEVATION: See drawings

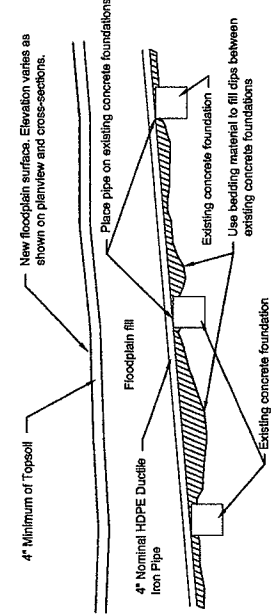
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2	11/14/17	AC	REVISED
3	11/14/17	JP	REVISED
4	11/14/17	CC	REVISED
5	11/14/17	CC	REVISED
6	11/14/17	CC	REVISED
7	11/14/17	CC	REVISED
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18	11/14/17	CC	REVISED
19	11/14/17	CC	REVISED
20	11/14/17	CC	REVISED

PARISH geomorphic
 340 Gates Street
 Portland, ME 04103
 TEL: 603-752-8400
 FAX: 603-752-8401
 WWW.PARISHGEOMORPHIC.COM
 ESB 192

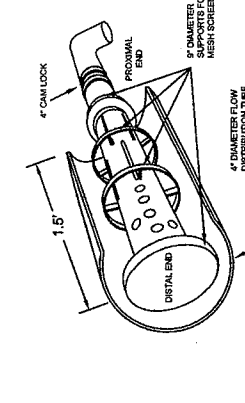
CLIENT:
 The Downeast Salmon Federation, Inc.
 Willow Street, East Machias, Maine

TITLE:
 Site Map and Topographic Survey

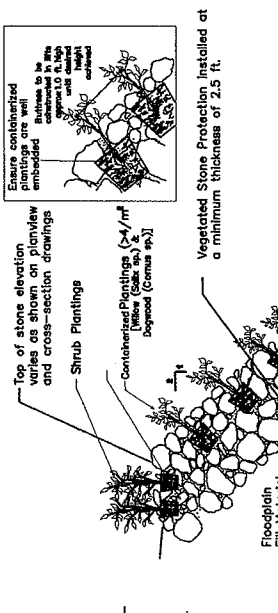
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 PROJECT NO: 06-06-04
 DRAWING NO: 6



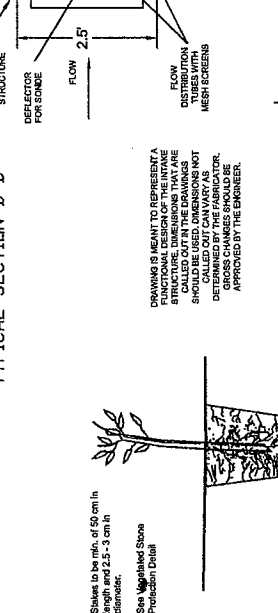
TYPICAL SECTION C-C'



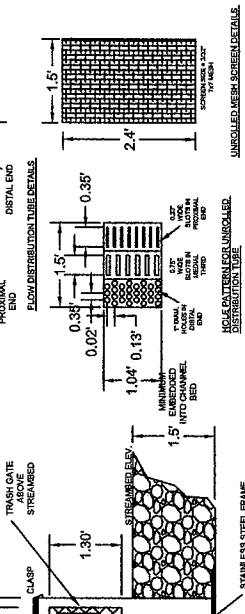
TYPICAL SECTION B-B'



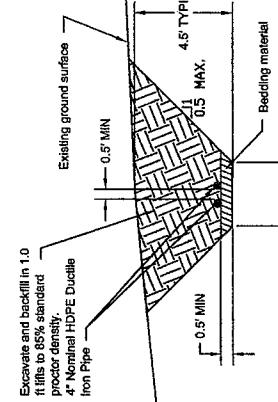
TYPICAL SECTION A-A'



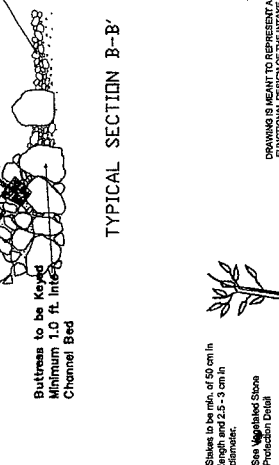
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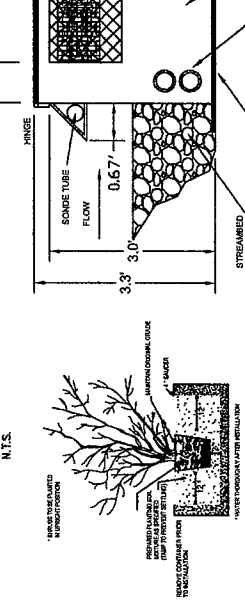
DETAIL OF INTAKE STRUCTURE



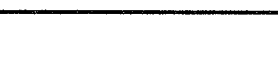
200 cm TREE TYPICAL DETAIL



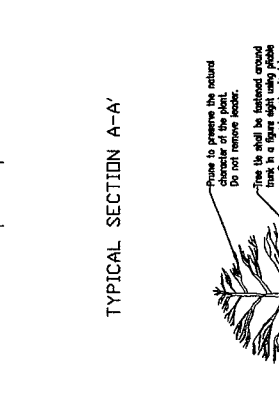
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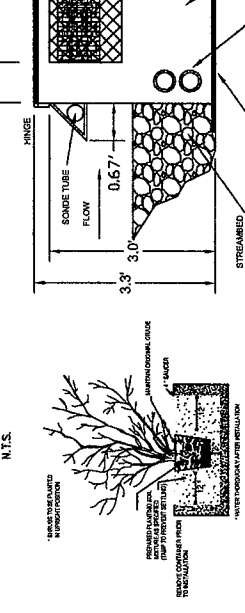
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200 cm TREE TYPICAL DETAIL



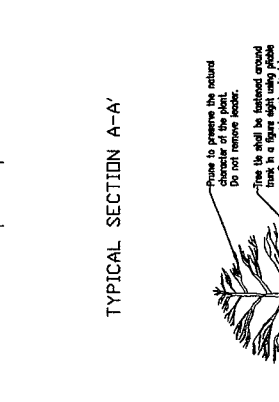
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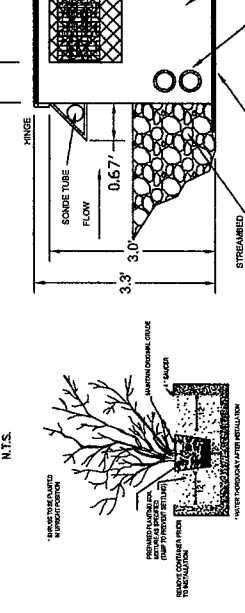
TYPICAL SECTION B-B'



200 cm TREE TYPICAL DETAIL



TYPICAL SECTION B-B'



TYPICAL SECTION B-B'