

April 4, 2024

BY ELECTRONIC MAIL AND HAND DELIVERY

Boxford Conservation Commission
Town Hall
7A Spofford Road
Boxford, MA 01921

Attn: Mr. Ross Povenmire, Conservation Director
(978) 887-6000 ext.181
dircons@town.boxford.ma.us



150 Newburyport Turnpike
Suite C-9
Rowley, MA
01969

978.948.7717 Office

derosaenvironmental.com

RE: Supplemental Information | Notice of Intent

**Four Mile Village
50 Four Mile Village | Boxford, Massachusetts**

MassDEP File No.: 114-1397

Dear Mr. Povenmire and Members of the Commission,

A Notice of Intent (NOI) Application for the proposed maintenance of an existing fire pond was filed on March 7, 2024 with the Boxford Conservation Commission and the Massachusetts Department of Environmental Protection (MA DEP) by the Boxford Friendship Foundation, to meet the requirements of the Massachusetts Wetland Protection Act (MGL CH 131 Sec. 40) and its Regulations (310 CMR 10.00, et seq.) and the Town of Boxford Wetlands Protection Bylaw, Town Code Ch. 192 & 357 (the "Bylaw"). The project was first discussed at the public meeting on March 21, 2024. A site walk with the Commission occurred on April 3, 2024. This memo intends to outline a few plan revisions based on conversations with the Commission at the public meeting and site walk.

Plan Revisions

- a. The Site Development Plan has been revised to include:
 - i. Additional erosion control measures along the east side of the pond to prevent erosion and sedimentation to the pond where heavy machinery will be traveling (Site Development Plan dated 4/3/2024, attached).
 - ii. A note that seven (7) trees are proposed to be removed and replaced within the sediment fill area (Site Development Plan dated 4/3/2024, attached).
- b. Figure 2c. Planting Plan has been revised to include:
 - i. The proposed removal of seven (7) trees within the soft sediment fill area and replacement with seven (7) red maples to be installed by hand as 1.5-inch caliper bareroot nursery stock (Figure 2c. Planting Plan dated 4/3/2024, attached).
 - ii. A note that existing highbush blueberry shrubs will be temporarily transplanted in the woodland until ready to be reinstalled within the planting area (Figure 2c. Planting Plan dated 4/3/2024, attached).

- iii. Approximate location for the refugia area as discussed (Figure 2c. Planting Plan dated 4/3/2024, attached).
- c. Figure 2b. Project Elements Plan has been updated with a revision date of 4/3/2024 with the updated Site Development Plan as the base layer (attached).

Request for Issuance of an Order of Conditions

The proposed project has been designed to avoid, minimize and mitigate impacts to existing wetland resource areas as defined under the Massachusetts Wetlands Protection Act (MGL CH. 131 Sec. 40, et seq.) and the Town of Boxford Wetlands Protection Bylaw, Town Code Ch. 192 & 357. Since the interests of the Act and the Bylaw have been addressed as part of this plan, we request that an Order of Conditions be issued so that the Boxford Friendship Foundations may commence with the implementation of the proposed project.

Should you have any questions, or would like to arrange a site walk to review the project, please don't hesitate to call us at (978) 948-7717.

Respectfully submitted,

DeRosa Environmental Consulting, Inc.



Evin Guvendiren
Natural Resource Economist



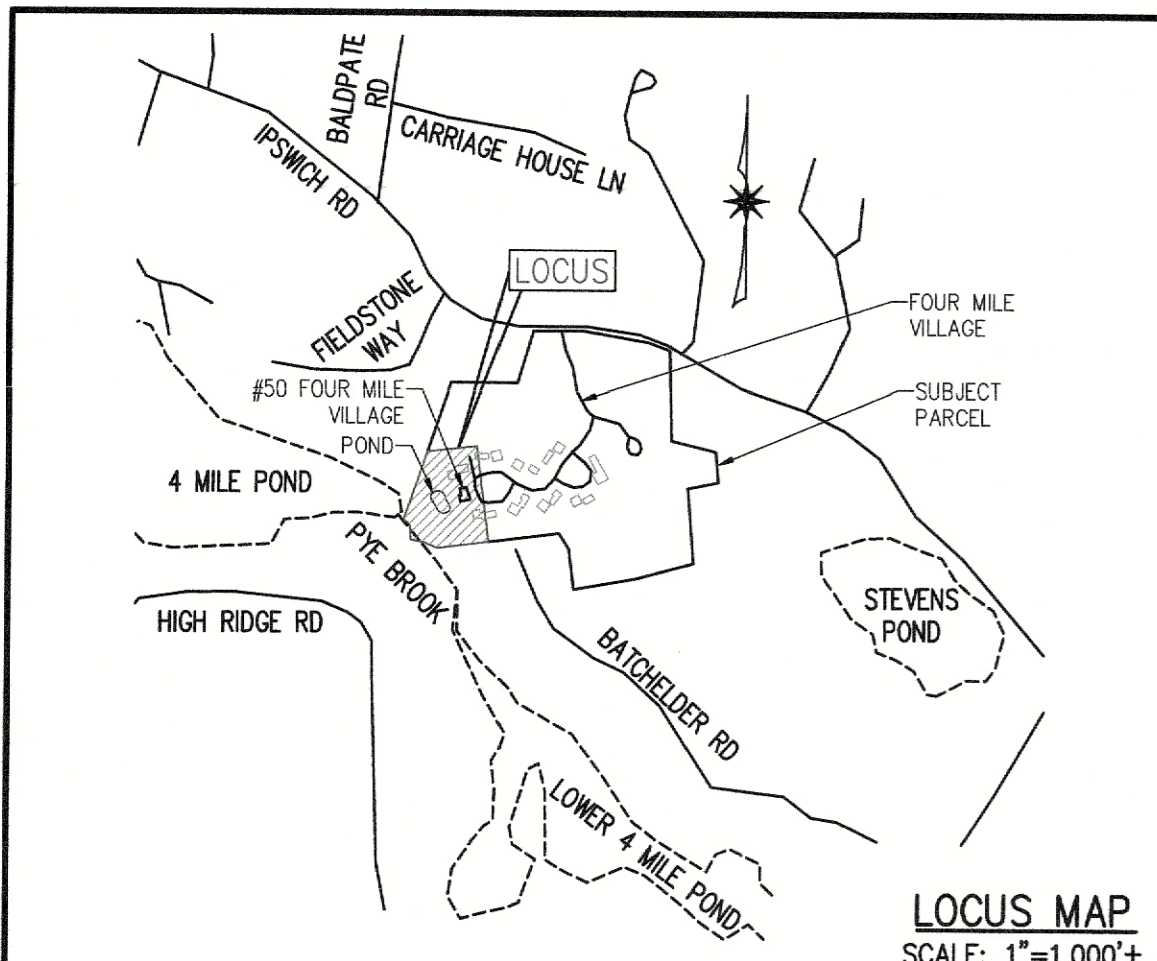
Michael J. DeRosa, Principal
Wetland Ecologist, LSP, LEED AP, PWS



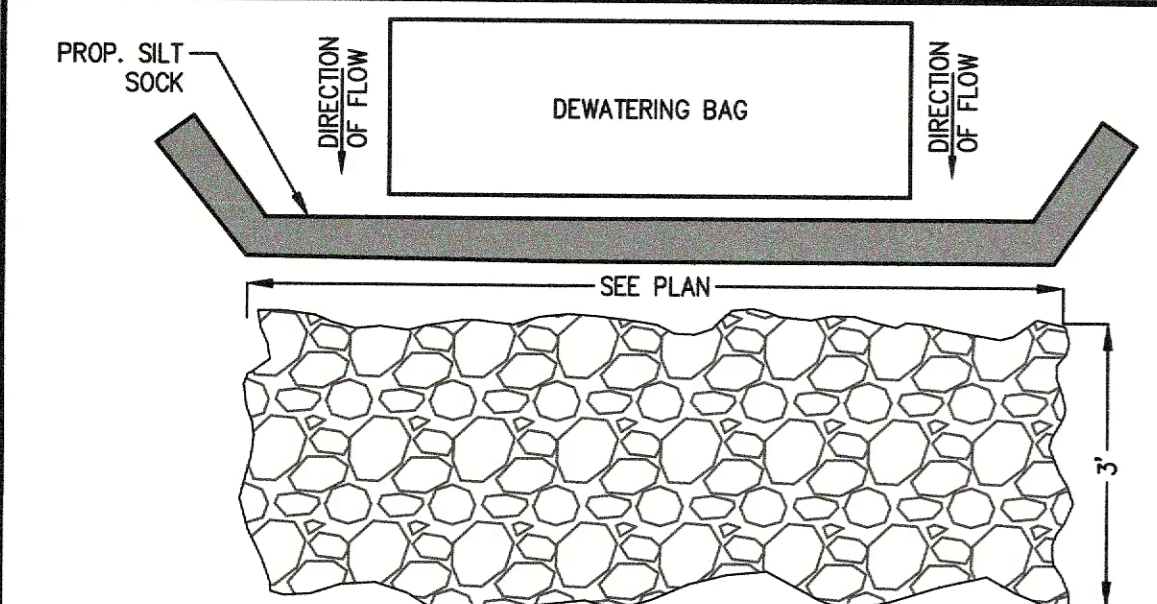
MJD/EEG

Attachments:

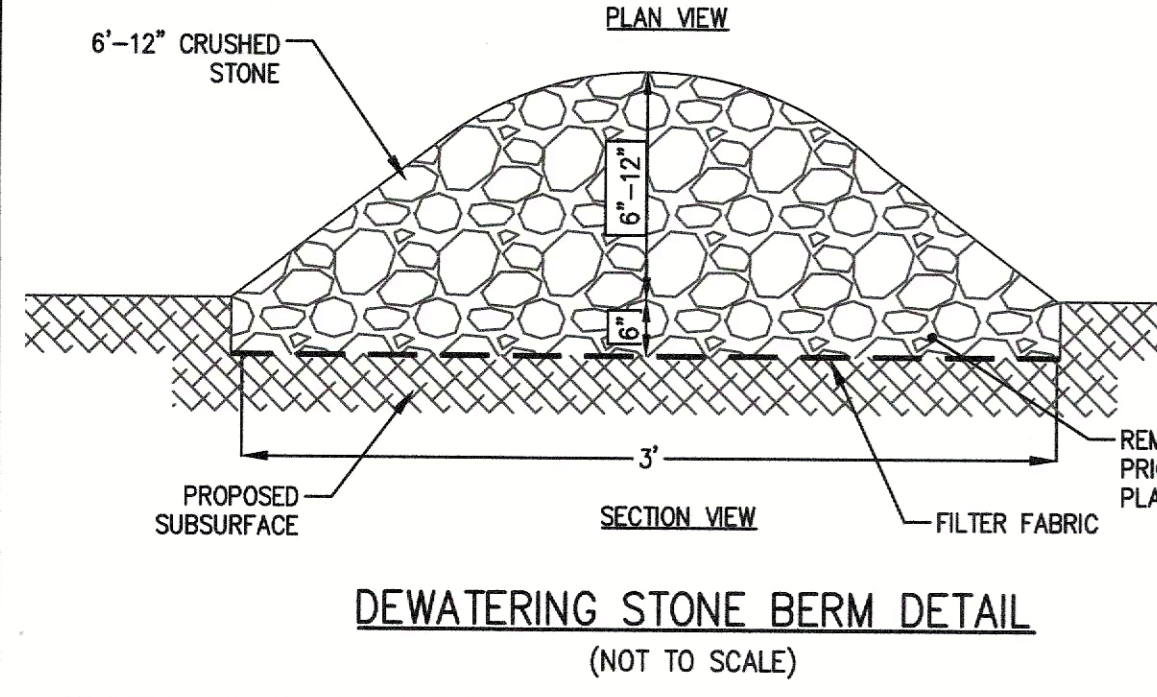
1. Revised Site Development Plan by The Morin-Cameron Group, inc., Inc. dated 4/3/2024
2. Revised Figure 2b. Project Elements Plan dated 4/3/2024
3. Revised Figure 2c. Planting Plan dated 4/3/2024



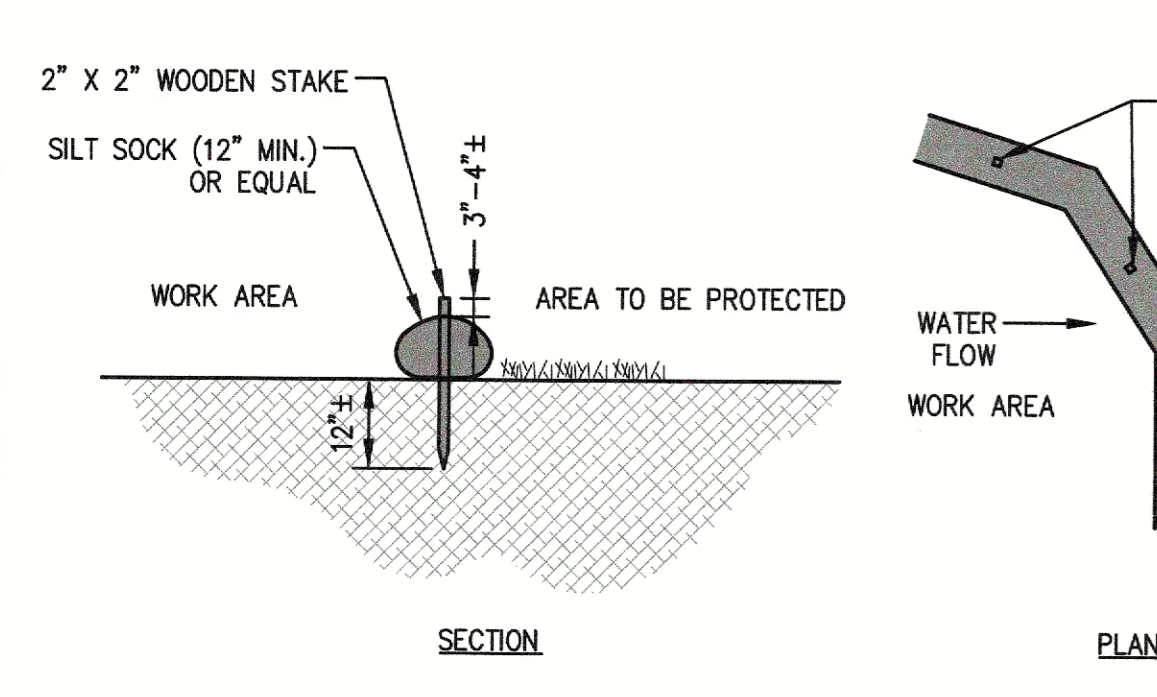
LOCUS MAP
SCALE: 1"=1,000'±



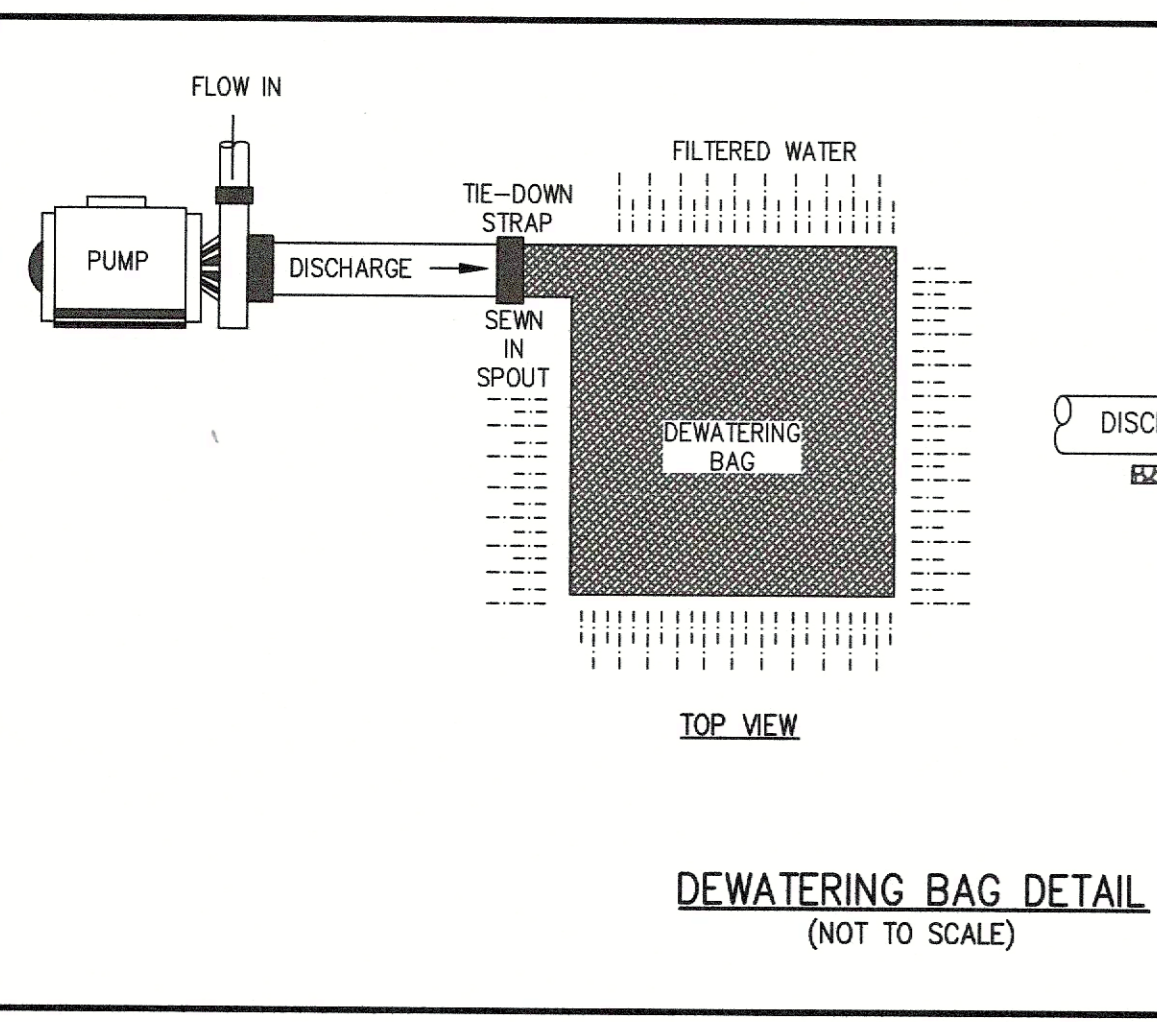
DEWATERING BAG DETAIL
(NOT TO SCALE)



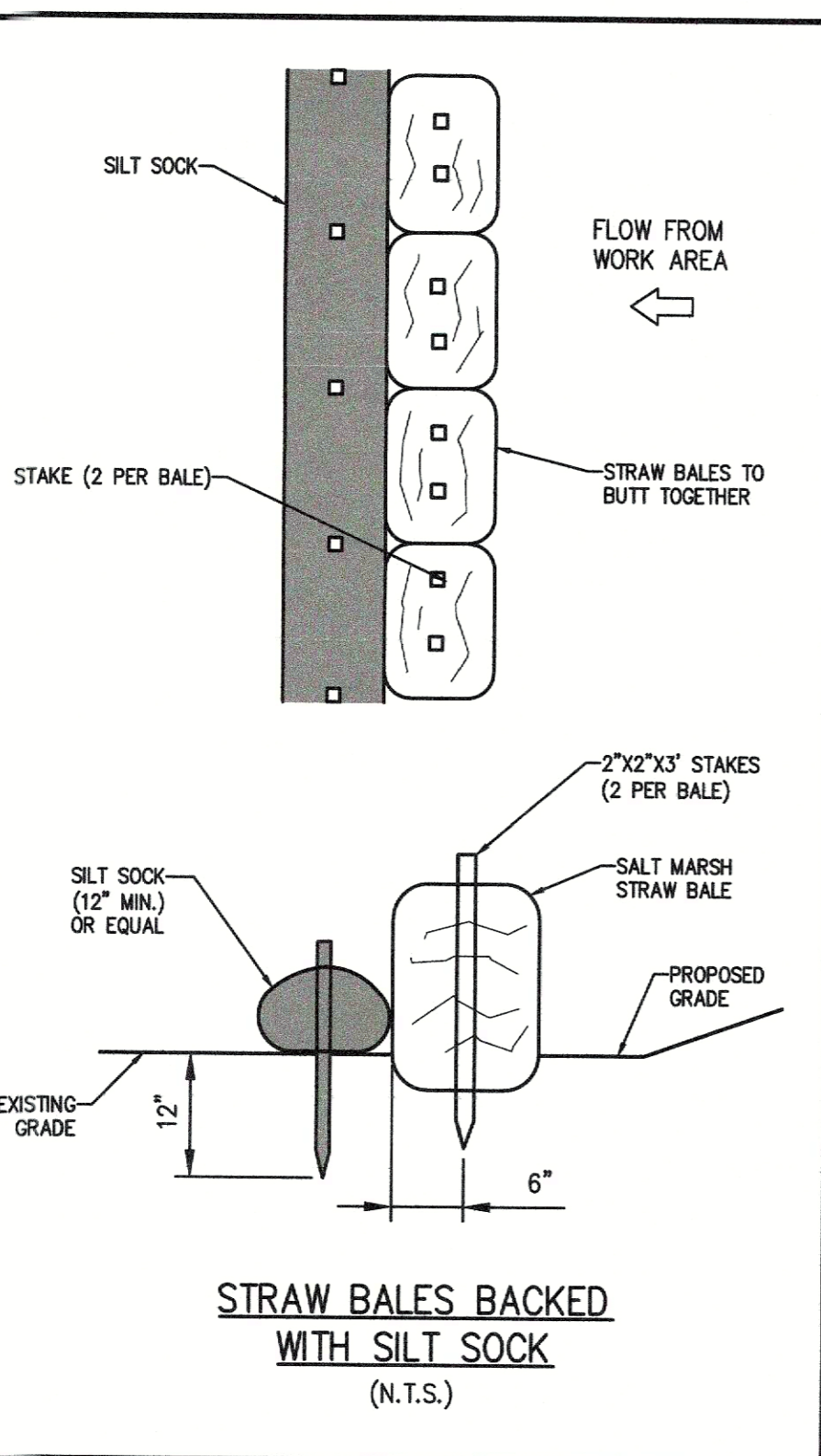
DEWATERING STONE BERM DETAIL
(NOT TO SCALE)



SILT SOCK DETAIL
(NOT TO SCALE)



DEWATERING BAG DETAIL
(NOT TO SCALE)



STRAW BALES BACKED WITH SILT SOCK
(N.T.S.)

POND SEDIMENT REMOVAL CALCULATION:

TOTAL AREA OF POND (EDGE OF WATER) = 7,200± SF
 DEPTH OF EXCAVATION IN POND = 3 FT DEEP
 APPROX. VOLUME OF FILL FROM EXCAVATION = 20% (0.20)
 $7,200 \text{ SF} \times 3 \text{ FT} \times 0.20 = 4,320 \text{ CF (160 CY)}$
 APPROX. AVAILABLE VOLUME WITHIN "SOFT SEDIMENT FILL AREA" = 197 CY±

LEGEND:

- 10- EXISTING MAJOR CONTOURS
- 11- EXISTING MINOR CONTOURS
- 11- PROPOSED CONTOURS
- △ WF A1 WETLAND FLAG
- - - - - LIMIT OF BORDERING VEGETATED WETLAND
- - - - - 25' NO DISTURB ZONE
- - - - - 75' NO BUILD ZONE
- - - - - 100' BUFFER ZONE
- - - - - LIMIT OF FEMA FLOODPLAIN
- - - - - 100' SETBACK TO MEAN ANNUAL HIGH WATER
- - - - - 200' RIVERFRONT AREA
- - - - - LIMIT OF NHESP PRIORITY HABITATS OF RARE SPECIES (HABITAT #PH 1999) & ESTIMATED HABITATS OF RARE WILDLIFE

SURVEY NOTE:

EXISTING CONDITIONS INFORMATION OBTAINED FROM A FIELD SURVEY PERFORMED BY THE MORIN-CAMERON GROUP, INC. IN DECEMBER 2023.

FLOOD NOTE:

A PORTION OF THE SUBJECT PROPERTY IS LOCATED WITHIN A ZONE A 100 YEAR FLOOD PLAIN AS ILLUSTRATED ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 25009C0242F, WHICH HAS AN EFFECTIVE DATE OF JULY 3, 2012.

RECORD OWNER:

BOXFORD FRIENDSHIP FOUNDATION
 50 FOUR MILE VILLAGE
 BOXFORD, MA 01921
 ASSESSORS MAP 19, BLOCK 2, LOT 18
 BOOK 7680, PAGE 504

DATUM:

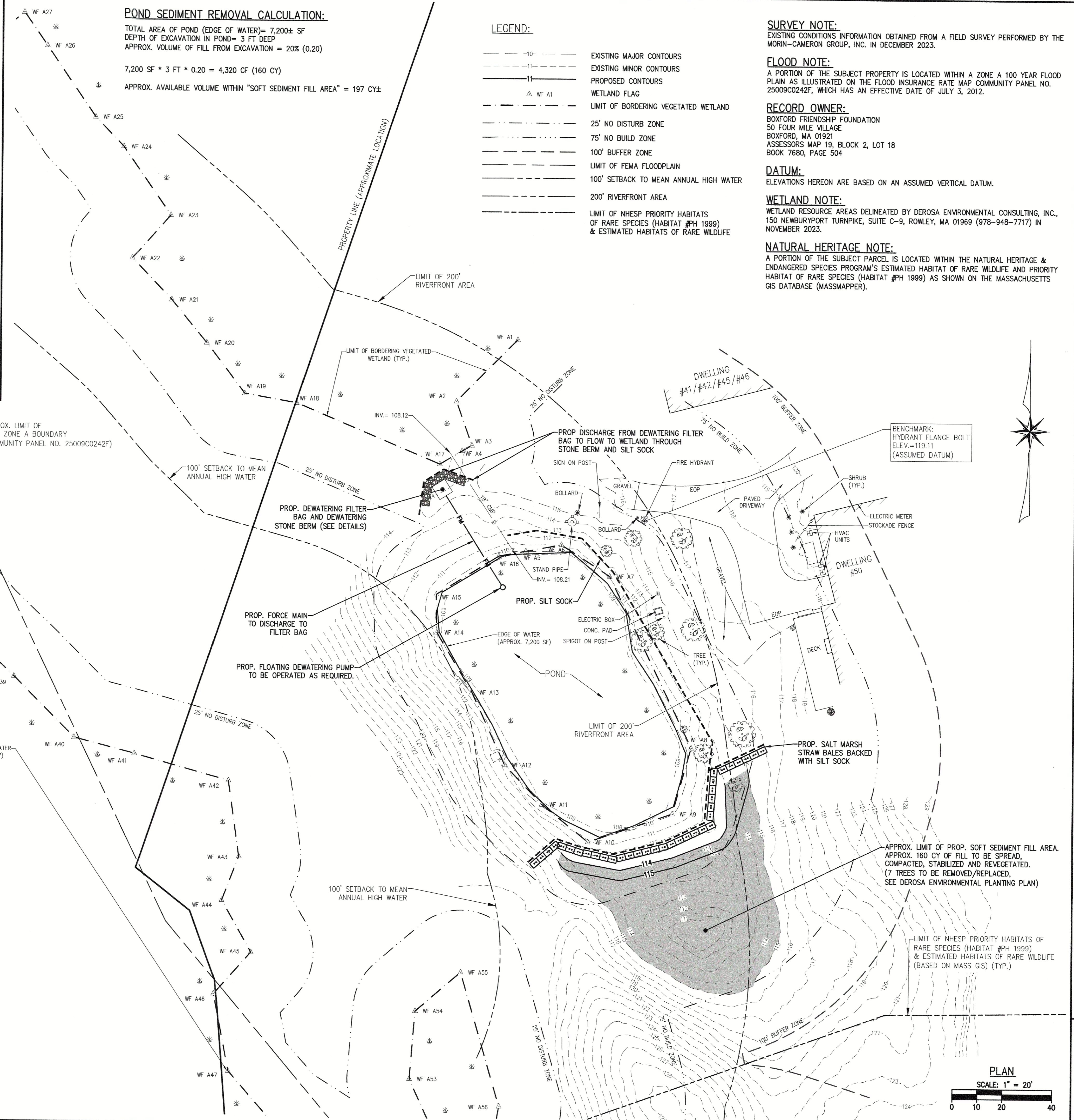
ELEVATIONS HEREON ARE BASED ON AN ASSUMED VERTICAL DATUM.

WETLAND NOTE:

WETLAND RESOURCE AREAS DELINEATED BY DEROSA ENVIRONMENTAL CONSULTING, INC., 150 NEWBURYPORT TURNPIKE, SUITE C-9, ROWLEY, MA 01969 (978-948-7717) IN NOVEMBER 2023.

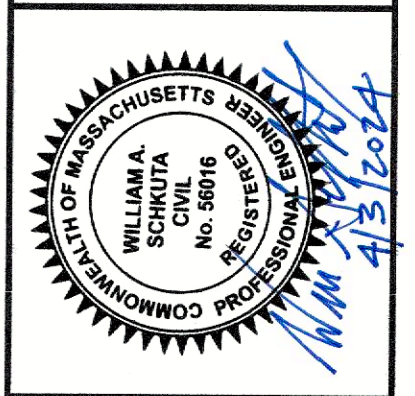
NATURAL HERITAGE NOTE:

A PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN THE NATURAL HERITAGE & ENDANGERED SPECIES PROGRAM'S ESTIMATED HABITAT OF RARE WILDLIFE AND PRIORITY HABITAT OF RARE SPECIES (HABITAT #PH 1999) AS SHOWN ON THE MASSACHUSETTS GIS DATABASE (MASSMAPPER).



PLAN
SCALE: 1" = 20'
0 10 20 40

The Morin-Cameron GROUP, INC.
 CIVIL ENGINEERS | ENVIRONMENTAL CONSULTANTS
 LAND SURVEYORS | LAND USE PLANNERS
 100 WASHINGTON STREET, SUITE 200
 BOXFORD, MA 01921
 P: 978-777-6586, W: WWW.MORINCAMERON.COM



SURVEY BY:	MCS
DRAFTED BY:	DTIS
CHECKED BY:	WAS
APPROVED BY:	WAS
SCALE:	AS NOTED
DATE:	FEBRUARY 22, 2024

NO.	DESCRIPTION	DATE
1	ADDITIONAL EROSION CONTROL AND TREE REMOVAL/REPLACEMENT CALLOUT	4/3/2024

SITE DEVELOPMENT PLAN
 IN
BOXFORD, MASSACHUSETTS
50 FOUR MILE VILLAGE
 (ASSESSOR'S MAP 19, BLOCK 2, LOT 18)
 PREPARED FOR:
FOUR MILE VILLAGE

SDP
 DRAWING NO.
1 OF 1

Figure 2b. Project Elements Plan

50 Four Mile Village | Boxford, MA

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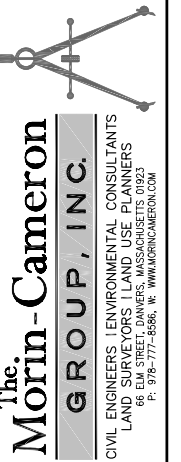
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SURVEY BY: MCG
DRAFTED BY: DTS
CHECKED BY: WAS
APPROVED BY: WAS
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DRAWING NO:
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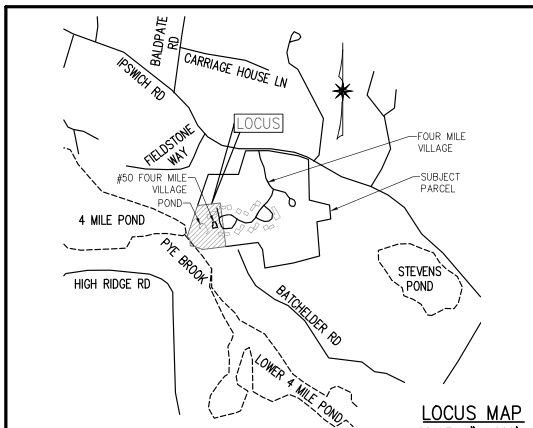
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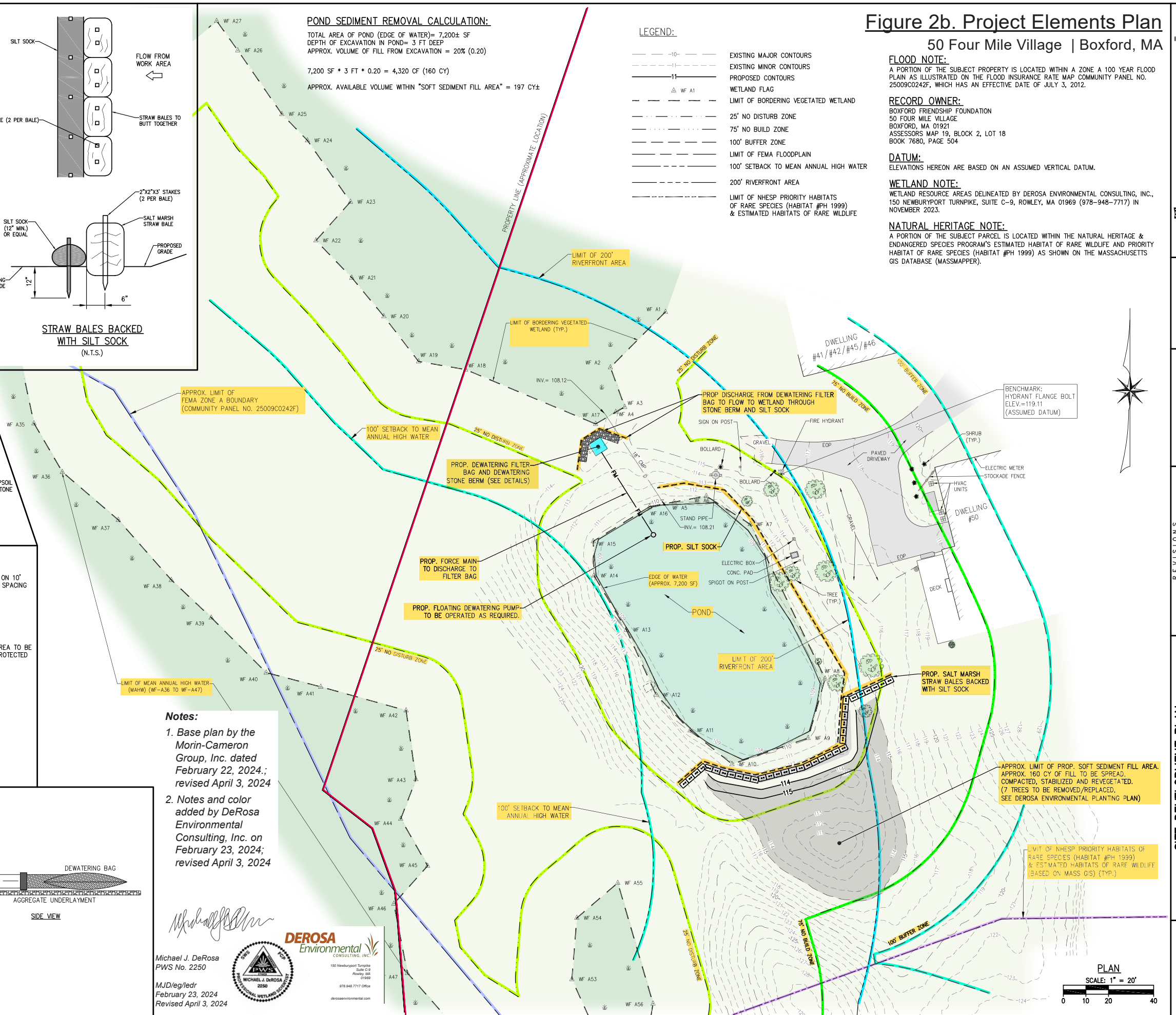
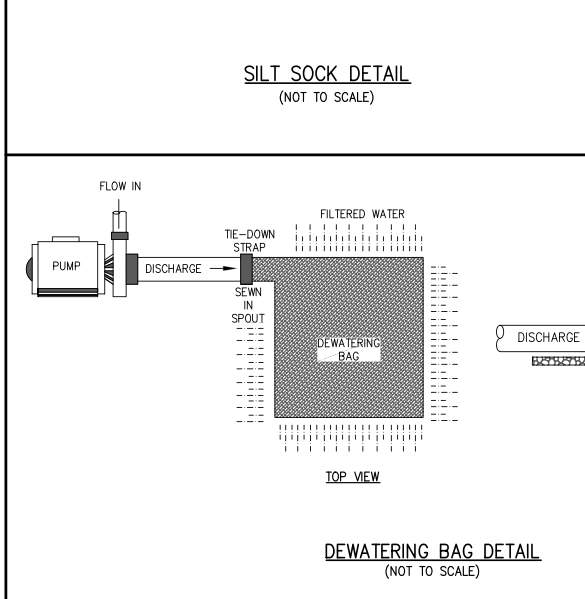
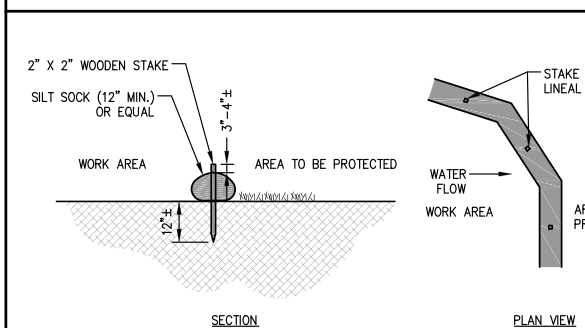
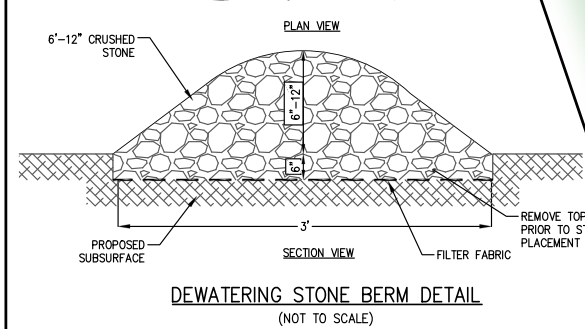
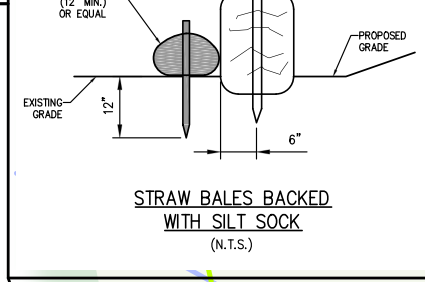
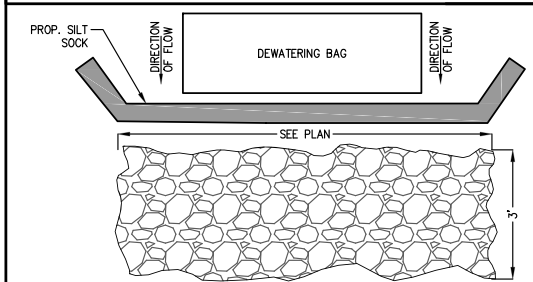
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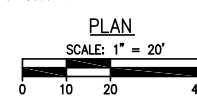


LOCUS MAP
SCALE: 1"=1,000'±



- Notes:**
1. Base plan by the Morin-Cameron Group, Inc. dated February 22, 2024.; revised April 3, 2024
 2. Notes and color added by DeRosa Environmental Consulting, Inc. on February 23, 2024; revised April 3, 2024

Michael J. DeRosa
PWS No. 2250
MJD/eg/ldr
February 23, 2024
Revised April 3, 2024



NATIVE CUSTOM UPLAND SEED MIX | 50 FOUR MILE VILLAGE | BOXFORD, MA

Common Name	Scientific Name	Indicator Status	Size	Quantity
Indian Grass	<i>Sorghastrum nutans</i>	UPL	Seed	25 lbs
Switchgrass	<i>Panicum virgatum</i>	FAC	Seed	
Upland Bentgrass	<i>Agrostis pernans</i>	FACU	Seed	
Ticklegrass	<i>Agrostis scabra</i>	FAC	Seed	
Red Fescue	<i>Festuca rubra</i>	FACU	Seed	
Little Bluestem	<i>Schizachyrium scoparium</i>	FACU-	Seed	

Planting Notes:

- Disturbed soils will be planted with our custom upland seed mix.
- The entire planted area is to be covered with salt marsh hay to retain soil moisture and protect against seed predation by birds and small mammals.
- Plants to be distributed by an ecological restoration specialist. Exact plant locations will be determined in the field based on site-specific planting conditions and micro-topography.
- The new plantings will be irrigated for one full growing season or until the seed and plant material is established.
- Monthly inspections will be conducted for the first growing season and treatment/removal of invasive species will be implemented as needed.
- Care is to be taken in removing invasive plant material to minimize disturbance to existing native plant species.
- Seven (7) trees will be removed and replaced with seven (7) Red Maple (*Acer Rubrum*) trees as 1.5" caliper bareroot nursery stock. Trees to be installed by hand.
- Existing Highbush blueberry shrubs will be temporarily transplanted to the woodland area until ready to be re-installed within the planting area.
- Other existing canopy trees and shrubs will be protected during the construction activities by wrapping the trunks of trees within 25-feet of the activity area with orange plastic fencing for buffering (2" thick). Overlay orange plastic fencing with 2-inch thick wooden slats bound securely by two (2) layers of additional orange fencing (slats shall not dig into the bark).

Figure 2c. Planting Plan

50 Four Mile Village | Boxford, MA

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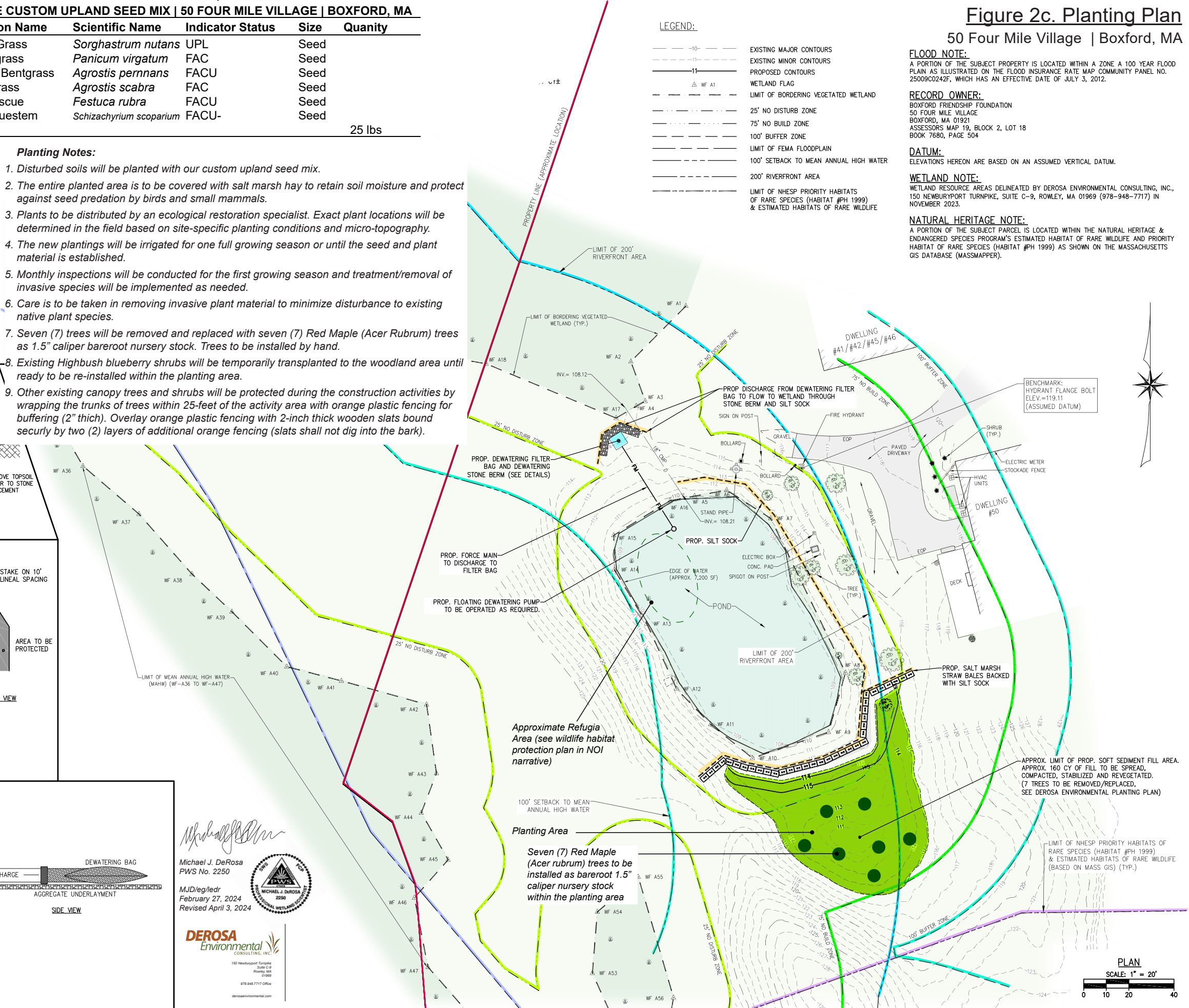
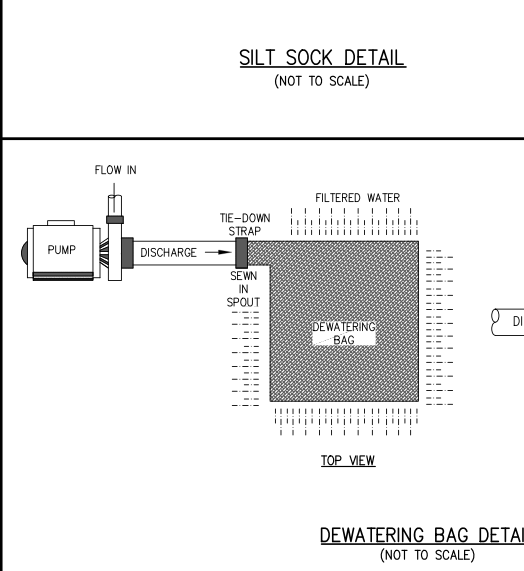
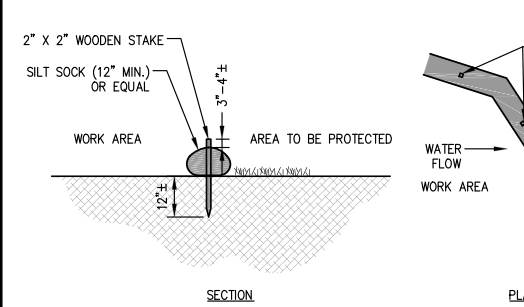
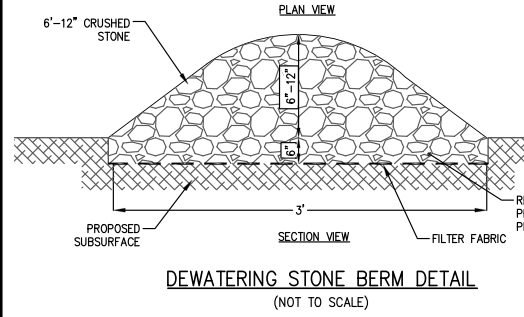
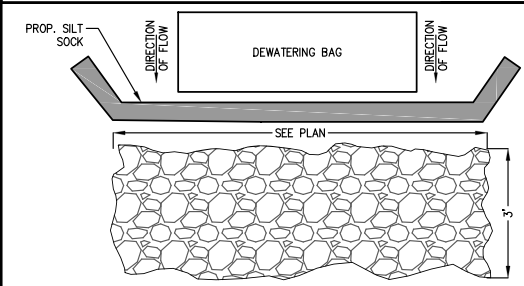
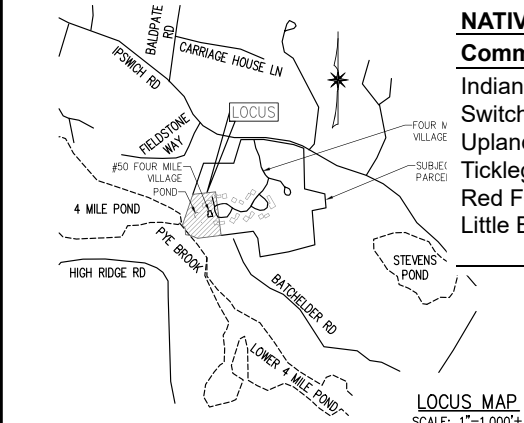
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