The State of New Hampshire
Department of Environmental Services

Robert R. Scott, Commissioner

G&C

135

September 9, 2024

His Excellency, Governor Christopher T. Sununu
and The Honorable Council
State House
Concord, NH 03301

REQUESTED ACTION

Approve City of Manchester DPW Enviro Protection Division's request to amend NH Department of Environmental Services (NHDES) Wetland Bureau permit #2022-01477, to use an alternative dewatering method to perform the following work on Stevens Pond in Manchester, in accordance with RSA 482-A:3. This project was previously approved by the Governor and Executive Council on November 22, 2022, Item #138. No comments were submitted by the Manchester Conservation Commission regarding the project as proposed.

Dredge approximately 190 cubic yards from 3,922 square feet of lakebed in order to remove accumulated sediment and Phragmites biomass surrounding an existing public boat launch and extend the boat launch 30 feet on frontage along Stevens Pond in Manchester.

NHDES imposed the following conditions as part of this approval:

1. In accordance with Env-Wt 307.16, all work shall be done in accordance with the approved plans dated December 28, 2023, by Comprehensive Environmental Incorporated, as received by the NH Department of Environmental Services (NHDES) on May 30, 2024.
2. All development activities associated with any project shall be conducted in compliance with applicable requirements of RSA 483-B and Env-Wq 1400 during and after construction as required pursuant to RSA 483-B:3.
3. In accordance with Env-Wt 307.10(f), dredged materials to be stockpiled in uplands shall be dewatered in sedimentation basins that are contained within turbidity controls that prevent turbid water from leaving the basins; and located outside of any jurisdictional area.
4. Work authorized shall be carried out in accordance with Env-Wt 307 such that appropriate turbidity controls are in place to protect water quality, that no turbidity escapes the immediate dredge area, and that appropriate turbidity controls shall remain until suspended particles have settled and water at the work site has returned to normal clarity.
5. All dredged and excavated material and construction-related debris shall be placed outside of those areas subject to RSA 482-A or RSA-483-B unless a permit for the deposition of materials within those areas has been obtained as required per RSA 482-A:3 or RSA 483-B:5-b respectively.
6. No activity shall be conducted in such a way as to cause or contribute to any violation of surface water quality standards specified in RSA 485-A:8 or Env-Wq 1700.

7. Pursuant to RSA 482-A:14, RSA 482-A:14-b, and RSA 482-A:14-c, NHDES is authorized to take appropriate compliance actions should it be determined that, based upon additional information which becomes available, any of the structures depicted as "existing" on the plans submitted by or on behalf of the permittee were not previously permitted or grandfathered.

EXPLANATION

NHDES approved this project on August 05, 2024. NHDES supported its decision with the following findings:

1. This is a major impact project per Administrative Rule Env-Wt 523.04(c), dredge of more than 30 cubic yards of material from public waters.
2. The NHDES finds that because the project is not of significant public interest and will not significantly impair the resources of Stevens Pond a public hearing under RSA 482-A:8 is not required.
3. The applicant submitted a copy of email correspondence received from the Natural Heritage Bureau (NHB) indicating that they had "no further concerns based on the project as submitted and described" with the application materials as evidence that Rule Env-Wt 311.01(b) had been met.
4. No concerns were received from the local Conservation Commission related to the project.
5. On May 31, 2022, the Department received comments from a member of the public (the Correspondent) outlining several areas of concern related to the proposed project.
6. On July 19, 2022, the Department issued a Request for More Information Letter to the Applicant requesting, among other things, that the applicant address the concerns submitted by the Correspondent.
7. On August 3, 2022, the Department received a response to the Request for More Information Letter including an itemized document addressing the concerns raised by the Correspondent.
8. The Correspondent expressed concerns that a dredge of the boat ramp is a short term fix to providing public access to Stevens Pond and, in order to ensure long term access to the pond, the applicant should address stormwater runoff.
9. The applicant outlined that the dredge of the vicinity of the boat ramp will provide a dual benefit by removing encroaching Phragmites growth and result in restored water depths for public access. Future measures to improve the boat ramp, which will include measures to further mitigate erosion, will be addressed in a separate project proposal.
10. The Correspondent expressed concerns that the removal of phragmites would require monitoring and follow-up.
11. The applicant outlined a three year monitoring and treatment plan as evidence that the concern of the Correspondent was being addressed.
12. The Correspondent public questioned if the applicant had coordinated with the NH Department of Agriculture and/or NHDES Exotic Species Coordinator for the proposed herbicide treatment of Phragmites.
13. The Applicant cited a pre-permitting meeting with the NHDES Exotic Species Coordinator and stated that a NH-licensed applicator will perform the herbicide treatment following approval of an Herbicide Permit Application from the NH Department of Agriculture, Markers and Food as evidence that the concern was being addressed.
14. The Correspondent expressed concerns regarding the location of the deposition of the dredge spoils, which contain Phragmites stems.
15. The applicant explained that the dredge spoils around the boat ramp will be transported and deposited at a landfill. Phragmites will be cut and treated with an herbicide and left in place.

16. The Correspondent questioned the timing of dredge project and expressed concerns relative to spawning finfish.
17. The applicant explained that activities would be conducted in late summer during seasonally low water as to avoid and minimize impacts to aquatic organisms Food as evidence that the concern was being addressed.
18. The Correspondent expressed concerns that the proposed dredge was excessive and questioned its necessity.
19. The applicant expressed that the requested dredge is necessary in order to control future growth of Phragmites, preserve the use of the boat launch area, and reduce the need for future impacts.
20. The NHDES finds that the project as proposed and conditioned meets the requirements of RSA 482-A and the Wetlands Program Code of Administrative Rules Chapters Env-Wt 100 - 900. No waivers of RSA 482-A or the Wetlands Program Code of Administrative Rules Chapters Env-Wt 100 - 900 were requested or approved under this permit action.

NHDES Wetlands Bureau permit #2022-01477 application documents are enclosed for review by the Governor and the Executive Council in consideration of this request and in accordance with RSA 482-A:3, II(a), as it is a major project located in New Hampshire public waters.

We respectfully request your approval of this item.

Robert R. Scott
Commissioner

STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division/Land Resources Management

Wetlands Bureau

Check the Status of your Application

RSA/Rule: RSA 482-A/Env-Wt 100-900

APPLICANT'S NAME: Benjamin Lundsted [for City of Manchester EPD] TOWN NAME: Manchester

RECEIVED Administrative Use MAY 23 2022 NHDES LAND RESOURCES MANAGEMENT	INCOMPLETE Administrative MAY 23 2022 Only	COMPLETE Administrative MAY 31 2022 Only	File No. 2022-0.M17 Check No. 26907 Amount: $400.00 Initials: RS

A person may request a waiver of the requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interest of the public or the environment but is still in compliance with RSA 482-A. A person may also request a waiver of the standards for existing dwellings over water pursuant to RSA 482-A:26, III(b). For more information, please consult the Waiver Request Form.

SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; RSA 482-A:3, I(d)(2))

Please use the Wetland Permit Planning Tool (WPPT), the Natural Heritage Bureau (NHB) DataCheck Tool, the Aquatic Restoration Mapper, or other sources to assist in identifying key features such as: priority resource areas (PRAs), protected species or habitats, coastal areas, designated rivers, or designated prime wetlands.

Has the required planning been completed?	☒ Yes ☐ No
Does the property contain a PRA? If yes, provide the following information:	☒ Yes ☐ No
• Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&G) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04.	☒ Yes ☐ No
• Protected species or habitat? o If yes, species or habitat name(s): o NHB Project ID #: 22-0289	☐ Yes ☐ No
• Bog?	☐ Yes ☒ No
• Floodplain wetland contiguous to a tier 3 or higher watercourse?	☒ Yes ☐ No
• Designated prime wetland or duly-established 100-foot buffer?	☐ Yes ☒ No
• Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	☐ Yes ☒ No
Is the property within a Designated River corridor? If yes, provide the following information: • Name of Local River Management Advisory Committee (LAC): • A copy of the application was sent to the LAC on Month: Day: Year:	☐ Yes ☒ No

The proposed project will commence in mid-summer 2022 (*Phragmites* cutting), and dredging activities will be conducted in late summer 2022 (August/September) during the period of seasonally low water.

Activity	Temporary Impacts (sf)	Permanent Impacts (sf)	Volume removed (CY)
Dredging	0	3,427	188
Cutting/Herbicide Treatment	40,133	0	0

For dredging projects, is the subject property contaminated? • If yes, list contaminant: [redacted]	[redacted] Yes [redacted] No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	[redacted] Yes [redacted] No
For stream crossing projects, provide watershed size (see WPPT or Stream Stats): [redacted]	

SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))

Provide a brief description of the project and the purpose of the project, outlining the scope of work to be performed and whether impacts are temporary or permanent. DO NOT reply "See attached"; please use the space provided below.

Stevens Pond is an approximate 24-acre pond located in the northeastern portion of Manchester. The Pond's shoreline is dominated by dense growth of invasive common reed (Phragmites australis). Review of aerial imagery has documented that over 1 acre of the Pond's open water habitat has been lost since 2005 due to encroachment of Phragmites and associated biomass accumulation. An existing boat launch provides recreational access to the Pond from via Bridge Street. In recent years, the encoaching growth of Phragmites in the boat launch area has significantly impaired the ability to launch boats and navigate to the open water portion of the Pond.

The proposed project has two primary activities:

1. Conduct dredging to remove accumulated sediment and Phragmites biomass (including rhizomes) to restore open water and inhibit Phragmites regrowth between the boat launch and open water zone. Proposed dredging will include 3,427 square feet of permanent impacts to restore open water and historic water depths in the boat access channel and an additional 25 feet laterally to either side.

2. To provide additional control of Phragmites in the areas adjacent to the proposed dredging, approximately 0.92 acres of phragmites is proposed to be mechanically cut and treated with herbicide. The limit of cutting and herbicide treatment will extend 300 feet laterally from both sides of the boat launch/boat access channel. These impacts are temporary, as regrowth of wetland vegetation the cut/treated areas is anticipated.

Note: An additional Herbicide Permit Application will be submitted to the NH Department of Agriculture, Markets and Food (NH DAMF) for herbicide treatment of the cut phragmites areas.

SECTION 3 - PROJECT LOCATION

Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.

ADDRESS: 65 Robinson Road - Stevens Pond	
TOWN/CITY: Manchester	
TAX MAP/BLOCK/LOT/UNIT: 638/1	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: Stevens Pond ☐ N/A	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):	42.99407° North 71.42127° West

NHDES-W-06-012

SECTION 4 - APPLICANT (DESIRED PERMIT HOLDER) INFORMATION (Env-Wt 311.04(a)) If the applicant is a trust or a company, then complete with the trust or company information.		
NAME: [redacted]		
MAILING ADDRESS: [redacted]		
TOWN/CITY: [redacted]	STATE: NH	ZIP CODE: [redacted]
EMAIL ADDRESS: [redacted]		
FAX: [redacted]	PHONE: (603) 624-6341	
ELECTRONIC COMMUNICATION: By initialing here: BL, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c)) ☒ N/A		
LAST NAME, FIRST NAME, M.I.: Musgraves, Elisha, S		
COMPANY NAME: Comprehensle Environmental Inc.		
MAILING ADDRESS: 21 Depot Street		
TOWN/CITY: Merrimack	STATE: NH	ZIP CODE: 03054
EMAIL ADDRESS: emusgraves@celengineers.com		
FAX:	PHONE: (617) 697-7146	
ELECTRONIC COMMUNICATION: By initialing here ESM, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 6 - PROPERTY OWNER INFORMATION (IF DIFFERENT THAN APPLICANT) (Env-Wt 311.04(b)) If the owner is a trust or a company, then complete with the trust or company information. ☒ Same as applicant		
NAME:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here , I hereby authorize NHDES to communicate all matters relative to this application electronically.		

SECTION 7 - RESOURCE SPECIFIC CRITERIA ESTABLISHED IN Env-Wt 400-Env-Wt 500, Env-Wt 600 or Env-Wt 700 HAVE BEEN MET (Env-Wt 313.01(a)(3))

Describe how the resource-specific criteria have been met for each chapter listed above (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters):

[redacted]

[redacted]

[redacted]

Env-Wt 600: N/A - no work in tidal or coastal wetlands.
Env-Wt 700: N/A - no work in prime wetlands.
Env-Wt 900: N/A - no stream impacts.

SECTION 8 - AVOIDANCE AND MINIMIZATION

Impacts within wetland jurisdiction must be avoided to the maximum extent practicable (Env-Wt 313.03(a)).* Any project with unavoidable jurisdictional impacts must then be minimized as described in the Wetlands Best Management Practice Techniques For Avoidance and Minimization and the Wetlands Permitting: Avoidance, Minimization and Mitigation Fact Sheet. For minor or major projects, a functional assessment of all wetlands on the project site is required (Env-Wt 311.03(b)(10)).*

Please refer to the application checklist to ensure you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable). Use the Avoidance and Minimization Checklist, the Avoidance and Minimization Narrative, or your own avoidance and minimization narrative.

**See Env-Wt 311.03(b)(6) and Env-Wt 311.03(b)(10) for shoreline structure exemptions.*

SECTION 9 - MITIGATION REQUIREMENT (Env-Wt 311.02)

If unavoidable jurisdictional impacts require mitigation, a mitigation pre-application meeting must occur at least 30 days but not more than 90 days prior to submitting this Standard Dredge and Fill Permit Application.

Mitigation Pre-Application Meeting Date: Month: Day: Year:

(☒ N/A - Mitigation is not required)

SECTION 10 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c)

Confirm that you have submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent unavoidable impacts that will remain after avoidance and minimization techniques have been exercised to the maximum extent practicable: ☐ I confirm submittal.

(☒ N/A – Compensatory mitigation is not required)

NHDES-W-06-012

SECTION 11 - IMPACT AREA (Env-Wt 311.04(g))

For each jurisdictional area that will be/has been impacted, provide square feet (SF) and, if applicable, linear feet (LF) of impact, and note whether the impact is after-the-fact (ATF; i.e., work was started or completed without a permit).

For intermittent and ephemeral streams, the linear footage of impact is measured along the thread of the channel. *Please note, installation of a stream crossing in an ephemeral stream may be undertaken without a permit per Rule Env-Wt 309.02(d), however other dredge or fill impacts should be included below.*

For perennial streams/rivers, the linear footage of impact is calculated by summing the lengths of disturbances to the channel and banks.

Permanent impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

Temporary impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

JURISDICTIONAL AREA		PERMANENT			TEMPORARY		
		SF	LF	ATF	SF	LF	ATF
Wetlands	Forested Wetland			☐			☐
	Scrub-shrub Wetland			☐			☐
	Emergent Wetland	3427		☐	40133		☐
	Wet Meadow			☐			☐
	Vernal Pool			☐			☐
	Designated Prime Wetland			☐			☐
	Duly-established 100-foot Prime Wetland Buffer			☐			☐
Surface Water	Intermittent / Ephemeral Stream			☐			☐
	Perennial Stream or River			☐			☐
	Lake / Pond			☐			☐
	Docking - Lake / Pond			☐			☐
	Docking - River			☐			☐
Banks	Bank - Intermittent Stream			☐			☐
	Bank - Perennial Stream / River			☐			☐
	Bank / Shoreline - Lake / Pond			☐			☐
Tidal	Tidal Waters			☐			☐
	Tidal Marsh			☐			☐
	Sand Dune			☐			☐
	Undeveloped Tidal Buffer Zone (TBZ)			☐			☐
	Previously-developed TBZ			☐			☐
	Docking - Tidal Water			☐			☐
TOTAL		3427			40133		

SECTION 12 - APPLICATION FEE (RSA 482-A:3, I)

☐ **MINIMUM IMPACT FEE:** Flat fee of $400.

☒ **NON-ENFORCEMENT RELATED, PUBLICLY-FUNDED AND SUPERVISED RESTORATION PROJECTS, REGARDLESS OF IMPACT CLASSIFICATION:** Flat fee of $400 (refer to RSA 482-A:3, 1(c) for restrictions).

☐ **MINOR OR MAJOR IMPACT FEE:** Calculate using the table below:

Permanent and temporary (non-docking):	SF	× $0.40 =	$
Seasonal docking structure:	SF	× $2.00 =	$
Permanent docking structure:	SF	× $4.00 =	$
Projects proposing shoreline structures (including docks) add $400 =			$
		Total =	$

The application fee for minor or major impact is the above calculated total or $400, whichever is greater = $ 400

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LAND RESOURCES MANAGEMENT

SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05) Indicate the project classification.		
☐ Minimum Impact Project	☐ Minor Project	☒ Major Project

SECTION 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)

Initial each box below to certify:

Initials: B.C.L.	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: B.C.L.	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.
Initials: B.C.L.	The signer understands that: • The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: 1. Deny the application. 2. Revoke any approval that is granted based on the information. 3. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. • The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641. • The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact forestry SPN projects and minimum impact trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II.
Initials: B.C.L.	If the applicant is not the owner of the property, each property owner signature shall constitute certification by the signer that he or she is aware of the application being filed and does not object to the filing.

SECTION 15 - REQUIRED SIGNATURES (Env-Wt 311.04(d); Env-Wt 311.11)

SIGNATURE (OWNER):	PRINT NAME LEGIBLY: Benjamin C. Lundstedt, P.E.	DATE: 4/20/22
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE):	PRINT NAME LEGIBLY: Elisha Musgraves	DATE: 5/31/22

SECTION 16 - TOWN/CITY CLERK SIGNATURE (Env-Wt 311.04(j))

As required by RSA 482-A:3, I(a)(1), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

TOWN/CITY CLERK SIGNATURE:	PRINT NAME LEGIBLY:
TOWN/CITY:	DATE:

NHDES-W-06-012

SECTION 11: PROJECT CLASSIFICATION (Env-Wt 306.05)

Indicate the project classification:

[redacted] Minimum Impact Project	[redacted] Minor Project	[redacted] Major Project

SECTION 12: REQUIRED CERTIFICATIONS (Env-Wt 311.11)

Initial each box below to certify:

Initials: [redacted]	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: [redacted]	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.
Initials: [redacted]	The signer understands that: • The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: 1. Deny the application. 2. Revoke any approval that is granted based on the information. 3. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. • The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641. • The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact forestry SPN projects and minimum impact trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II.
Initials: [redacted]	If the applicant is not the owner of the property, each property owner signature shall constitute certification by the signer that he or she is aware of the application being filed and does not object to the filing.

SECTION 13: REQUIRED SIGNATURES (Env-Wt 311.04(d); Env-Wt 311.11)

SIGNATURE (OWNER): [redacted]	PRINT NAME LEGIBLY: [redacted] Benjamin C. Lundstedt, P.E.	DATE: [redacted] 20/22
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER): [redacted]	PRINT NAME LEGIBLY: [redacted]	DATE: [redacted]
SIGNATURE (AGENT, IF APPLICABLE): [redacted]	PRINT NAME LEGIBLY: [redacted]	DATE: [redacted]

SECTION 14: TOWN/CITY CLERK SIGNATURE (Env-Wt 311.04(d))

As required by RSA 482-A:3, I(a)(1), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

TOWN/CITY CLERK SIGNATURE: [redacted]	PRINT NAME LEGIBLY: [redacted] Lisa McCarthy
TOWN/CITY: [redacted] Franconia	DATE: [redacted] 5/11/2022

City of Manchester, New Hampshire - Public GIS Map Viewer

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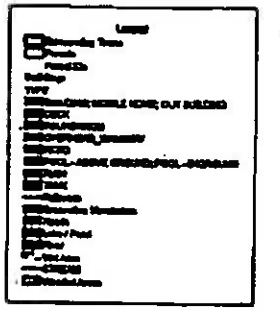
LAND RESOURCES MANAGEMENT



DISCLAIMER

[redacted]

USGS Quadrangle Map with Project Locus

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NHDES
LAND RESOURCES MANAGEMENT

The State of New Hampshire

Department of Environmental Services

Robert R. Scott, Commissioner

This application contains confidential information from the NH Natural Heritage Bureau (NHB) Datacheck tool provided by the NH Department of Natural and Cultural Resources, NHB. This information is being withheld from disclosure to the public.

Please direct all questions regarding the confidential information to Pamela G. Monroe, Legal Unit Administrator, NH Department of Environmental Services, at: pamela.g.monroe@des.nh.gov, or (603) 271-3137.

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MEMOLE, NICHOLAS V JR

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REGAN, PATRICK M

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Return Receipt (hardcopy) $
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Adult Signature Required $
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Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $
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LEFEBVRE, LAUREN C
7021 2720 0000 8188 7005

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7021 2720 0000 8188 7043

7021 2720 0000 8188 8736

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495 OLD WELLINGTON ROAD
APARTMENTS

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SMITH, KATHY J

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CLIFFORD, ELAINE M

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REGAN, CATHLEEN

7021 2720 0000 8188 6763

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BONENFANT, KIMM

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POTTS, ROYCE

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MAN SUNSET RIDGE LLC

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MORIN, JOHN F

7021 2720 0000 8188 8682

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ROCHE, BRANDON

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City, State, ZIP+4
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7021 2720 0000 8188 6862
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USPS
PAUL, RONALD A

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Total Postage and Fees
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Street and Apt. No.
City, State, ZIP+4
PS Form 3800
7021 2720 0000 8188 6800
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DANIEL, ROBERT

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Extra Services & Fees (check box, add fee as appropriate)
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Return Receipt (electronic) $
Certified Mail Restricted Delivery $
Adult Signature Required $
Adult Signature Restricted Delivery $
Postage
Total Postage and Fees
Sent To
Street and Apt. No.
City, State, ZIP+4
PS Form 3800
7021 2720 0000 8188 6831
APR 22 2022
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ARSENAULT, MARIAH L

U.S. Postal Service
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Extra Services & Fees (check box, add fee as appropriate)
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Adult Signature Restricted Delivery $
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Sent To
Street and Apt. No.
City, State, ZIP+4
PS Form 3800
7021 2720 0000 8188 6824
APR 22 2022
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USPS
RAICHE, DONNA M

U.S. Postal Service
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Adult Signature Required $
Adult Signature Restricted Delivery $
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PS Form 3800
7021 2720 0000 8188 6855
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USPS
COX, HAROLD P JR

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Adult Signature Restricted Delivery $
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Sent To
Street and Apt. No.
City, State, ZIP+4
PS Form 3800
7021 2720 0000 8188 6846
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TEJADAM, MATTHEW M

SECTION 3 - AMENDMENT TO AN EXISTING PERMIT

☐ Not applicable

To request an amendment to an existing permit, the permittee must:

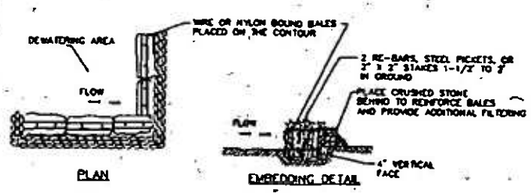
- Submit the information required and filed with the original permit application, including but not limited to a revised set of plans, and revised application fees for any additional square footage of impacts calculated pursuant to RSA 482-A:3, I(b) or (c) as applicable, and
- Provide notice to all who received notice of the original application prior to filing the amended application with the Department (Env-Wt 314.07).

☒ By checking this box, you confirm that you have provided all necessary information to the Department and provided the required notice(s) as described above.

Abutter List – City of Manchester, NH - CityGIS Parcel Selection List – Generated 2/13/2024 10:40:49 AM

Map Lot	Location Address	Owner Name	Owner Address	Owner City State Zip Code	Book/Page
235-15	[redacted]	LISBOA, MEAGAN A	[redacted]		
238-18		GOMEZ, JOAQUIN E			
238-19		SHEEHAN, CYNTHIA P			
238-5		LABARRE, JAMES R			
238-6		LEFEBVRE, LAUREN C			
241-1		TREPANIER, KELSEY			
241-13		SABEAN, KIM A			
241-2		SMITH, CHRISTOPHER ESTATE OF			
241-3		DUSAITIS FAMILY TRUST			
241-4		PFAFF, ANTHONY			
247-1		REGAN, PATRICK M			
247-11		MEMOLE, NICHOLAS V JR			
247-12		BRADLEY, TODD M			
247-2		REGAN, PATRICK M			
590-1		NICOLAY, ATHENA			
590-10		VALLEE, VIRGINIA L			
590-15		PROVENCHER, GEORGE A			
590-2		COLE, MARK R			
590-3		KNAPP, MICHAEL S			
590-4		BEAUDOIN, BRIAN A			
590-5		MORIN, JOHN F			

Map Lot	Location Address	Owner Name	Owner Address	Owner City State Zip Code	Book/Page
590-6	[redacted]	PAUL, RONALD A	[redacted]	[redacted]	[redacted]
590-7	[redacted]	COX, HAROLD P JR	[redacted]	[redacted]	[redacted]
590-8	[redacted]	TEJADA MATTHEW M	[redacted]	[redacted]	[redacted]
590-9	[redacted]	RAICHE, DONNA M	[redacted]	[redacted]	[redacted]
636-1	[redacted]	CITY OF MANCHESTER PARKS & RECREATIO	[redacted]	[redacted]	[redacted]
637-15	[redacted]	CITY OF MANCHESTER	[redacted]	[redacted]	[redacted]
638-1	[redacted]	CITY OF MANCHESTER	[redacted]	[redacted]	[redacted]
645-10	[redacted]	OLD WELLINGTON ROAD APARTMENTS	[redacted]	[redacted]	[redacted]
645-1I	[redacted]	HANDLEY, BRIAN	[redacted]	[redacted]	[redacted]
645-1II	[redacted]	DANIEL, ROBERT	[redacted]	[redacted]	[redacted]
645-1J	[redacted]	ARSENAULT, MARIAH L	[redacted]	[redacted]	[redacted]
645-1JJ	[redacted]	COHEN, TOD ALAN	[redacted]	[redacted]	[redacted]
645-1K	[redacted]	CLIFFORD, ELAINE M	[redacted]	[redacted]	[redacted]
645-1L	[redacted]	48X OLD WELLINGTON PLACE CONDO	[redacted]	[redacted]	[redacted]
645-1ZZ	[redacted]	FOXGLEN CONDO ASSOC	[redacted]	[redacted]	[redacted]
645-2	[redacted]	ROCHE, BRANDON	[redacted]	[redacted]	[redacted]
645A-2	[redacted]	MAN SUNSET RIDGE LLC	[redacted]	[redacted]	[redacted]
669-1	[redacted]	REGAN, CATHLEEN	[redacted]	[redacted]	[redacted]
669-14A	[redacted]	POTTS, ROYCE	[redacted]	[redacted]	[redacted]
669-15	[redacted]	KAPLLANI, ELTIONA S	[redacted]	[redacted]	[redacted]
669-16	[redacted]	BABICZ, MIECIU	[redacted]	[redacted]	[redacted]

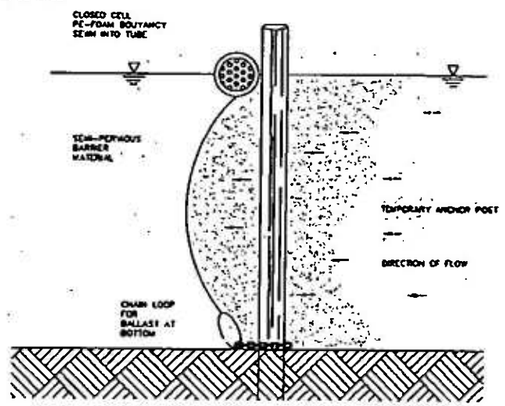


STRAW BALE BARRIER CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY BUTTED.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. STRAW BALE BARRIER AND REINFORCING CRUSHED STONE TO BE INSTALLED AROUND ENTIRE PERIMETER OF IDENTIFIED DEWATERING AREA.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

DEWATERING AREA STRAW BALE BARRIER DETAIL

-NOT TO SCALE

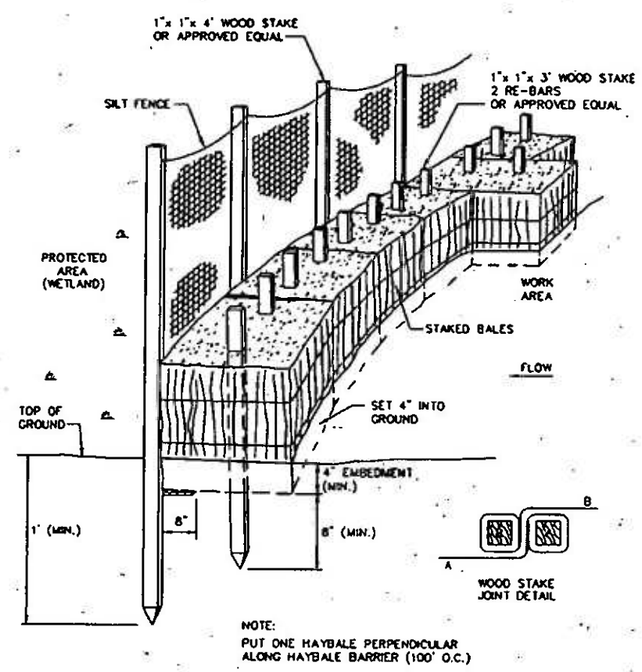


NOTES:

1. CONTRACTOR SHALL SUBMIT FOR REVIEW A PROPOSED TURBIDITY CURTAIN DESIGN PRIOR TO START OF CONSTRUCTION. CURTAIN TO BE DESIGNED AND INSTALLED BY SPECIALISTS WITH EXPERIENCE IN INSTALLING AND MAINTAINING TURBIDITY CURTAINS. CURTAIN DESIGN SHALL ACCOMMODATE, AS A MINIMUM, THE ORDINARY HIGH WATER AND APPROXIMATE NORMAL LOW WATER ELEVATIONS SHOWN ON SHEET C-2.
2. CONTRACTOR SHALL PROVIDE ADEQUATE ANCHORING AND INTERMEDIATE ANCHOR POSTS AS NECESSARY (MAX. SPACING 50' O.C.) TO MAINTAIN THE EFFECTIVENESS OF THE TURBIDITY CURTAIN.
3. TURBIDITY CURTAIN SHALL BE 22 OZ.-500 LB/INCH FASTWATER SCREEN BY ELASTEC/AMERICAN MARINE, CARMI, IL, OR APPROVED EQUAL.
4. CONTRACTOR IS RESPONSIBLE FOR LOCATION AND ORIENTATION OF TURBIDITY CURTAIN TO PREVENT MIGRATION OF SILT. TOTAL WETLAND AREA DISTURBED BY CONSTRUCTION SHALL BE EQUAL TO OR LESS THAN THE PERMITTED DISTURBANCE OF 51,943 SQ.FT.
5. FIRMLY FASTEN BALLASTING CHAIN TO BOTTOM OF ANCHOR POST.
6. CONTRACTOR SHALL INSPECT AND MAINTAIN TURBIDITY CURTAIN AT THE START AND END OF EACH WORK DAY.
7. ONLY AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE AND THE SITE IS STABILIZED SHALL TURBIDITY CURTAIN BE REMOVED.

SILT BOOM TYP. DETAIL

NOT TO SCALE



NOTE:
PUT ONE HAYBALE PERPENDICULAR ALONG HAYBALE BARRIER (100' O.C.)

EROSION CONTROL BARRIER - SILT FENCE AND STRAW BALE DETAIL

NOT TO SCALE

EROSION CONTROL DETAILS

GENERAL NOTES

1. EROSION CONTROL BARRIER PLACEMENT IS AS FOLLOWS:
   A. FROM WETLAND FLAG #13 TO #15 ERECT SILT FENCE AND STRAW BALES
   B. FROM WETLAND FLAG #15 AROUND THE UPLAND PERIMETER OF THE DEWATERING AREA ERECT THE STRAW BALE BARRIER ONLY AS SEEN IN DETAIL

P.E. STAMP

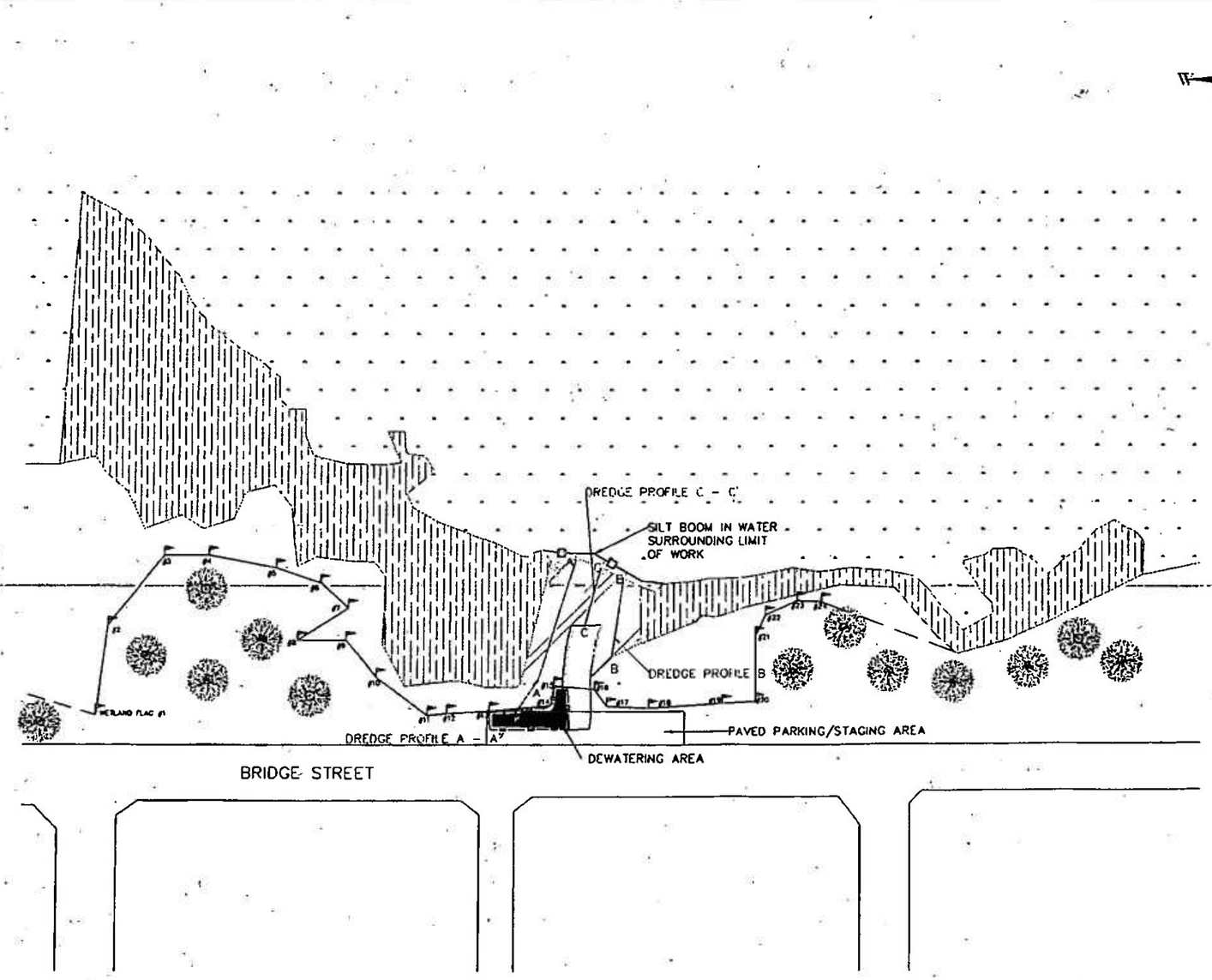
No.	Revisions	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED
41 MAIN ST.
BOLTON, MA 01740

EROSION CONTROL DETAILS
STEVENS POND
MANCHESTER, NH

C-5

RECEIVED
OCT 05 2022
NHDES
RESOURCES MANAGEMENT



EROSION AND SEDIMENT CONTROLS

30 15 0 30 60
SCALE 1" = 30'

GENERAL NOTES

Weir and Herbicide Treatment Area

Dredge Area Totals: 3427 SF

Boat Launch

Wetland Line

Dewatering Area Totals: 904 SF

— ECB — Erosion control perimeter for dewatering area

P.E. STAMP

No.	Revisions	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED

41 Main St.
BOLTON, MA 01740

EROSION AND SEDIMENT CONTROLS

STEVENS POND
BOAT LAUNCH RESTORATION

MANCHESTER, NH

C-3

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OCT 05 2022
NHDES
LAND RESOURCES MANAGEMENT

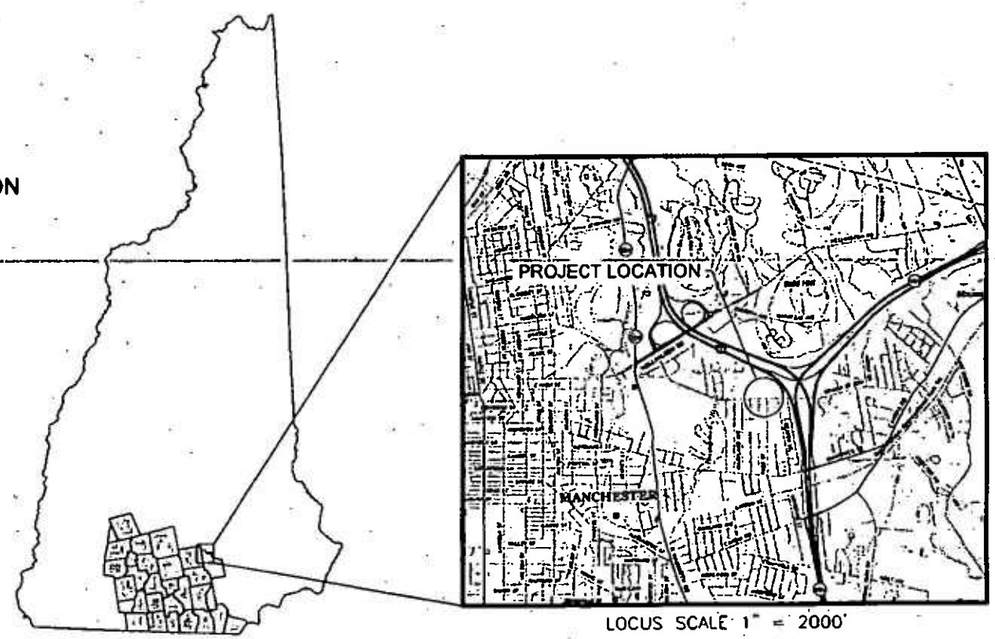
CITY OF MANCHESTER

STEVENS POND BOAT RAMP REHABILITATION MANCHESTER, NEW HAMPSHIRE

MAY 2024

CLIENT REPRESENTATIVES

CITY OF MANCHESTER
ENVIRONMENTAL PROTECTION DIVISION



LOCUS SCALE 1" = 2000'

SHEET	TITLE
G-1	GENERAL NOTES
C-1	EXISTING CONDITIONS
C-2	PROPOSED CONDITIONS
D-1	DETAILS

RECEIVED
MAY 30 2024

COMPREHENSIVE ENVIRONMENTAL INCORPORATED • MERRIMACK, NEW HAMPSHIRE

GENERAL NOTES

1. THE PROJECT BASE MAPPING SHOWN IS COMPILED FROM FIELD SURVEY COMPLETED BY CEI IN 2023. THE LOCATIONS OF EXISTING STRUCTURES AND OTHER UTILITIES ARE ONLY APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR NUMBER OR LOCATIONS. THE LOCATION OF ALL UNDERGROUND UTILITIES MUST BE VERIFIED WITH THE PROPER UTILITY ENGINEERING DEPARTMENT/COMPANY BEFORE EXCAVATING.
2. DIG-SAFE (1-888-344-7233) AND THE APPROPRIATE LOCAL WATER AND SEWER DEPARTMENTS SHALL BE NOTIFIED SEVENTY-TWO HOURS PRIOR TO THE START OF ANY WORK ON THE PROJECT. IN ADDITION, THE LOCATION AND ELEVATION ALL EXISTING UTILITIES ON THE SITE SHALL BE SAFELY AND ACCURATELY DETERMINED PRIOR TO THE START OF WORK.
3. COORDINATES, IN FEET, ARE REFERENCED TO THE NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
4. TEST PITS ARE TO BE BE EXCAVATED TO VERIFY LOCATIONS OF EXISTING UTILITIES AS INDICATED OR AS DIRECTED BY THE ENGINEER.
5. NO EXISTING PUBLIC UTILITY STRUCTURES SHALL BE ABANDONED AND/OR DISMANTLED WITHOUT AUTHORIZATION FROM THE ENGINEER.
6. NO SILT OR DEBRIS ARE TO ENTER EXISTING DRAINAGE FACILITIES OR CREATE NUISANCES. EROSION CONTROL MEASURE SHALL BE INSTALLED AS SHOWN. EXISTING OR NEW FACILITIES SHALL BE CLEANED IF SILTATION OCCURS DUE TO CONSTRUCTION OPERATIONS.
7. DAMAGE OF PROPERTY BEYOND THE WORK LIMITS CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTORS' EXPENSE, SUBJECT TO THE APPROVAL OF THE ENGINEER AND ACCEPTANCE OF THE CITY OF MANCHESTER.
8. ROADSIDE TREE PROTECTION OR INDIVIDUAL TREE PROTECTION SHALL BE PROVIDED ALONG THE LIMITS OF CLEARING AND GRUBBING TO PROTECT EXISTING STANDS OF QUALITY VEGETATION FROM CONSTRUCTION ACTIVITIES AND FROM EQUIPMENT AND MATERIALS BEING STORED ADJACENT TO TREE TRUNKS.
9. WASTE MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, OUTSIDE OF THE PROJECT LIMITS.
10. SOIL EXCAVATED AND REMOVED THAT CONTAINS INVASIVE PLANT SEEDS OR FRAGMENTS SHOULD BE TREATED AS CONTAMINATED. PROPER DISPOSAL OF THIS MATERIAL SHOULD ADHERE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
11. THE LOCATIONS OF PROPOSED PIPELINES, STRUCTURES AND UTILITY RELOCATIONS MAY BE MODIFIED TO SUIT FIELD CONDITIONS AT THE DISCRETION OF THE ENGINEER.
12. IF DAMAGES TO UTILITY SERVICES, THE RESPECTIVE UTILITY COMPANY SHALL BE IMMEDIATELY NOTIFIED AND IMMEDIATELY REPLACED OR REPAIRED, UNLESS INDICATED OTHERWISE BY THE RESPECTIVE UTILITY OWNER.
13. SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH NHDOT REQUIREMENTS, THE 2009 MUTCD AS AMENDED AND THE SPECIAL PROVISIONS.
14. PIPE AND STRUCTURES ELEVATIONS MAY BE SUBJECT TO FIELD ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
15. WHEN A PROPOSED STRUCTURE INTERFERES WITH ANY UNDERGROUND UTILITY, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED.
16. ALL EXISTING STRUCTURES AND PIPING TO REMAIN WITHIN THE PROJECT LIMITS SHALL BE CLEANED AND SEDIMENT DISPOSED OF.
17. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RE-SEEDED PRIOR TO THE END OF THE PROJECT.
18. ALL TRENCH BACKFILL SHALL BE MECHANICALLY TAMPED, NO JETTING SHALL BE ALLOWED.
19. PROPOSED ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY, LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN SHALL BE VERIFIED BY TEST PIT. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER.

INVASIVE SPECIES CONTROL

1. FOR A LIST OF INVASIVE AND OTHER UNACCEPTABLE PLANT SPECIES REFER TO THE NEW HAMPSHIRE GUIDE TO UPLAND INVASIVE SPECIES (DOUGLAS CYGAN, 2011). PLANT MATERIALS LISTED AS AN INVASIVE SPECIES OR UNACCEPTABLE PLANT SPECIES SHALL NOT BE USED ON THE PROJECT.
2. VEGETATION RESIDUE CONTAINING SEEDS OF INVASIVE SPECIES SHALL BE DISPOSED OF AT AN APPROVED INCINERATION AND/OR BIOMASS WASTE TO ENERGY FACILITY.
3. DOWN GRADIENT SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED TO PREVENT SEEDS OF INVASIVE SPECIES FROM LEAVING THE SITE.
4. SOIL MATERIAL BROUGHT TO THE SITE SHALL NOT BE FROM SOURCES KNOWN TO CONTAIN INVASIVE SPECIES.

ABBREVIATIONS

APPROX.	APPROXIMATELY
EOP	EDGE OF PAVEMENT
EOG	EDGE OF GRAVEL
CI	CAST IRON
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH-DENSITY POLYETHYLENE
PVC	POLYVINYL CHLORIDE
SS	STAINLESS STEEL
PL	PLASTIC
CLF	CHAIN-LINK FENCE
DIA.	DIAMETER
DBH	DIAMETER BREAST HEIGHT
DMH	DRAINAGE MANHOLE
SMH	SEWER MANHOLE
EMH	ELECTRICAL MANHOLE
CB	CATCH BASIN
DCB	DOUBLE CATCH BASIN
INV	INVERT
CSO	COMBINED SEWER OVERFLOW
GV	GAS VALVE
WV	WATER VALVE
OCS	OUTLET CONTROL STRUCTURE
FES	FLARED END SECTION
FND	FOUND
UNK	UNKNOWN
LF	LINEAR FEET
MIN	MINIMUM
OHW	OVERHEAD WIRES
PERF.	PERFORATED
P/L	PROPERTY LINE
PROP	PROPOSED
EXIST	EXISTING
PR	PROPOSED
REINF.	REINFORCED
RET WALL	RETAINING WALL
ROW	RIGHT-OF-WAY
TEMP	TEMPORARY
TP	TEST PIT
TYP	TYPICAL
UP	UTILITY POLE
X-SECT	CROSS-SECTION
BVW	BORDERING VEGETATED WETLANDS
TOB	TOP OF BANK

ESTIMATED QUANTITIES

NO.	DESCRIPTION	QUANTITY	
1	MOBILIZATION & DEMOBILIZATION	1	L.S.
2	EROSION CONTROL & STAGING	1	L.S.
3	DUST CONTROL	1	L.S.
4	COFFER DAM DESIGN AND IMPLEMENTATION	1	L.S.
5	DEWATERING	1	L.S.
6	EXCAVATION AND GRADING FOR BOAT RAMP EXTENSION	20	CY
7	EXCAVATION OF DETERIORATED ASPHALT	34	CY
8	CRUSHED STONE	43	CY
9	PAVEMENT MILLING	68	SY
10	PAVING	30	TON
11	ASPHALT BERM	65	L.F.
12	TREE BOX FILTER	2	EA
13	SITE RESTORATION	1	L.S.

GENERAL NOTES

No.	Revision/Issue	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED

21 Depot Street
Merrimack, NH 03054

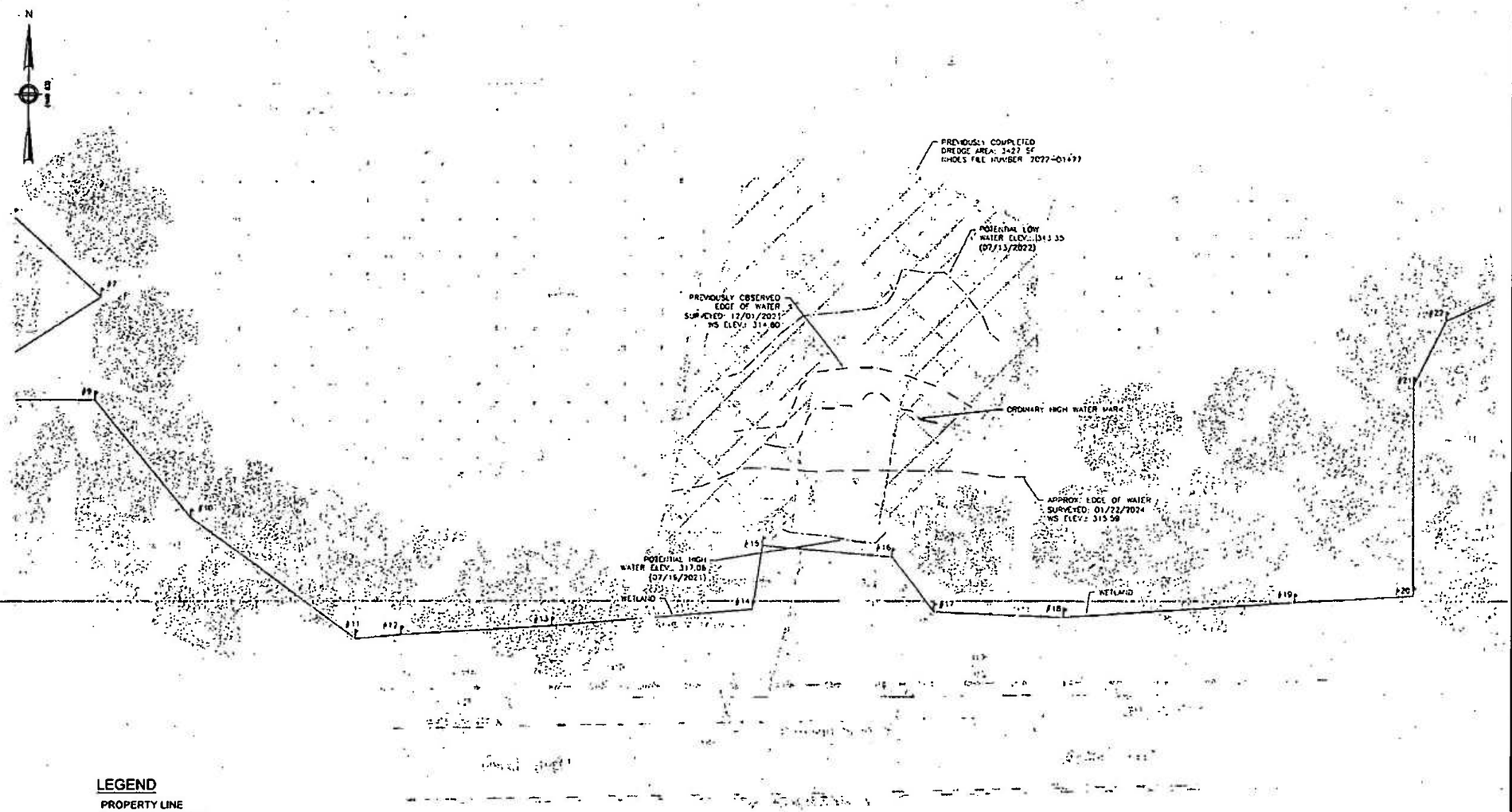
GENERAL NOTES

City of Manchester, NH

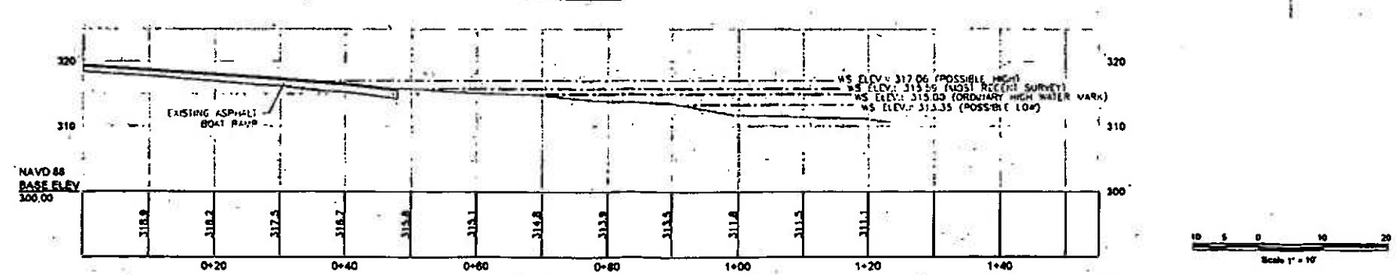
Project No.: 179-27-11
Date: 12/20/2023
Drawn By: KP
Checked By: KE
Scale: AS SHOWN

Sheet

G-1



PLAN VIEW



PROFILE VIEW

LEGEND

- PROPERTY LINE
- EDGE OF PAVEMENT
- CURB
- BUILDING
- TREELINE
- MAJOR CONTOUR
- MINOR CONTOUR
- OVERHEAD WIRES
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING DUCT BANK
- EXISTING SEWER
- EXISTING SMH
- EXISTING DRAINAGE
- EXISTING DMH
- EXISTING CB
- EXISTING DCB

GENERAL NOTES

MAP NOTES:
ON JANUARY 22, 2024, CEI FIELD STAFF CONDUCTED GROUND SURVEY USING HORIZONTAL AND GEOMETRIC CONTROL DATUM NAD83.

PREVIOUS SURVEY CONDUCTED BETWEEN 11/30/2021 - 12/7/2021. AT THIS TIME, WATER SURFACE ELEVATION WAS RECORDED AT 314.60.

ORDINARY HIGH WATER MARK ELEVATION OBTAINED FROM NHDES CONSOLIDATED LIST OF WATER BODIES.

No.	Revision/Issue	Date

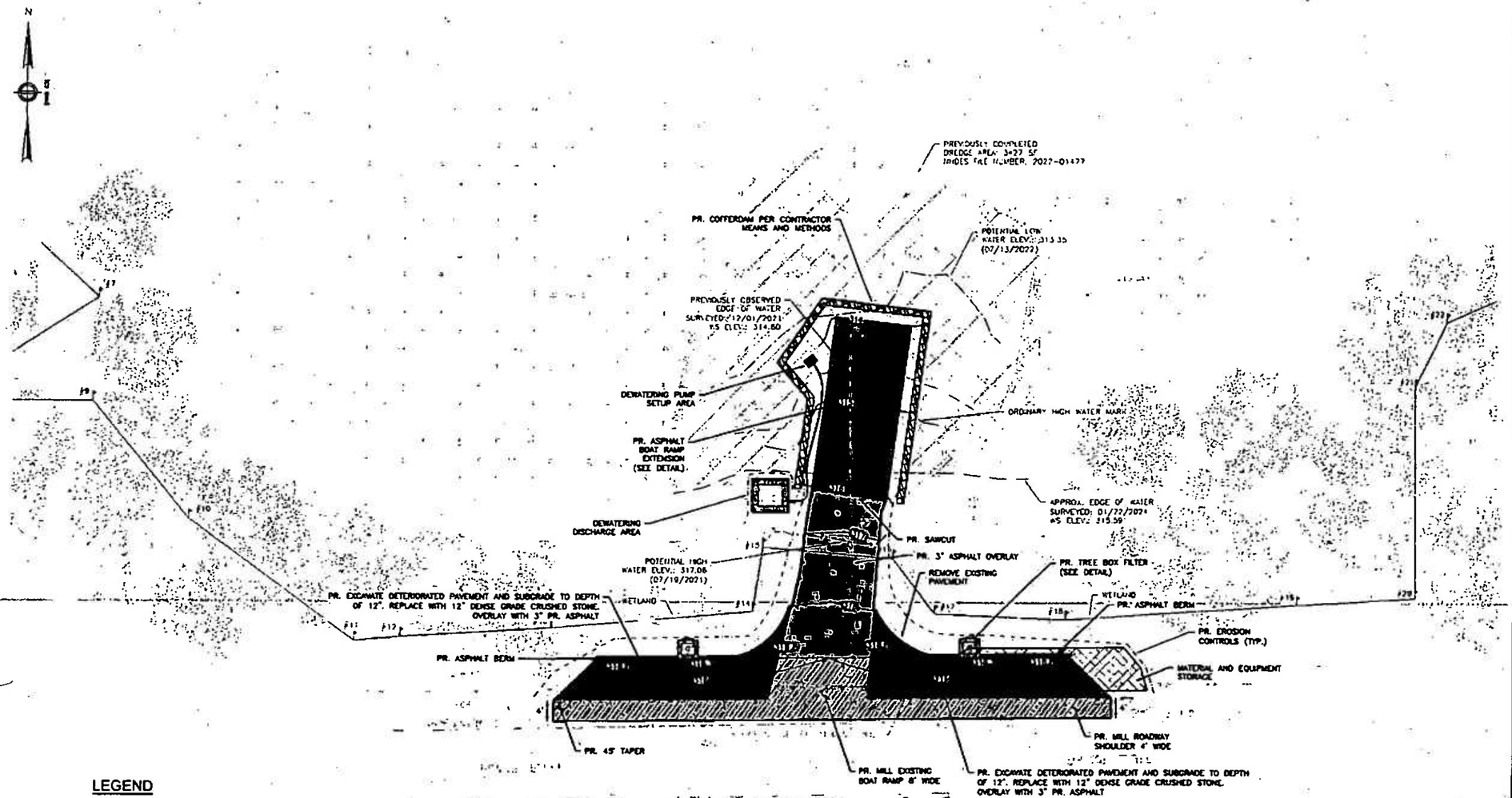
COMPREHENSIVE ENVIRONMENTAL INCORPORATED
21 Depot Street
Merrimack, NH 03054

EXISTING CONDITIONS PLAN VIEW

City of Manchester, NH

Project No.: 170-27-11
Date: 12/28/2023
Drawn By: MP
Checked By: MC
Scale: AS SHOWN

Sheet
C-1



LEGEND

- PROPERTY LINE
- EDGE OF PAVEMENT
- CURB
- BUILDING
- TREELINE
- MAJOR CONTOUR
- MINOR CONTOUR
- OVERHEAD WIRES
- EXISTING GAS LINE
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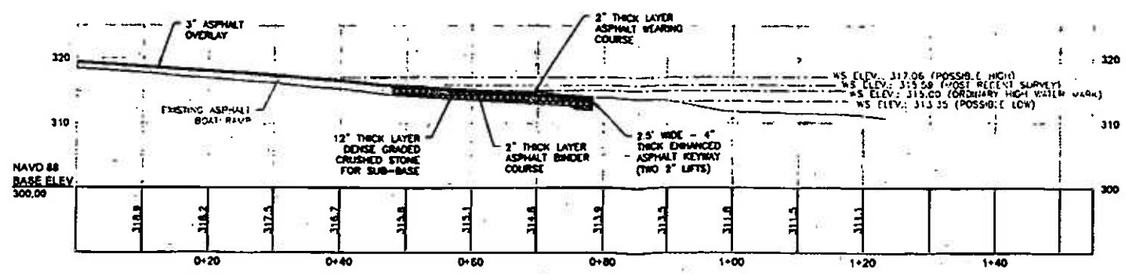

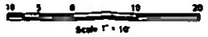

GENERAL NOTES

MAP NOTES:
ON JANUARY 22, 2024, CEI FIELD STAFF CONDUCTED GROUND SURVEY USING HORIZONTAL AND GEOMETRIC CONTROL DATUM NAD83.

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ORDINARY HIGH WATER MARK ELEVATION OBTAINED FROM NHDES CONSOLIDATED LIST OF WATER BODIES.

- NEW SUB-BASE AND ASPHALT SURFACE
- OVERLAY ONLY
- MILL AND OVERLAY

No.	Revision/Issue	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED
21 Depot Street
Merrimack, NH 03054

PROPOSED CONDITIONS

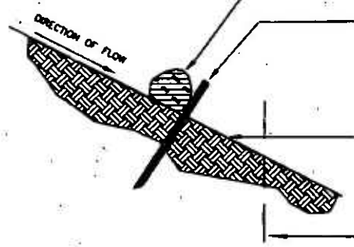
City of Manchester, NH

Project No.: 170-27-11
Date: 12/26/2023
Drawn By: MP
Checked By: BC
Scale: AS SHOWN

Sheet: C-2

GENERAL NOTES:

1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES (300mm) FOR SLOPES UP TO 50 FEET (15.24m) IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. TUBE LOCATION MAY BE SHIFTED TO ADJUST TO LANDSCAPE FEATURES, BUT SHALL PROTECT UNDISTURBED AREA AND VEGETATION TO MAXIMUM EXTENT POSSIBLE.
4. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
5. ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
6. ADDITIONAL STAKING SHALL BE USED AT THE DIRECTION OF THE ENGINEER.



COMPOST FILTER TUBE MINIMUM 12 INCHES (300mm) IN DIAMETER WITH AN EFFECTIVE HEIGHT OF 9.5 INCHES (240mm).

TUBES FOR COMPOST FILTERS SHALL BE JUTE MESH OR APPROVED PHOTO-BIODEGRADABLE MATERIAL. HOWEVER PHOTO-BIODEGRADABLE FABRIC SHALL BE REMOVED AT END OF CONTRACT.

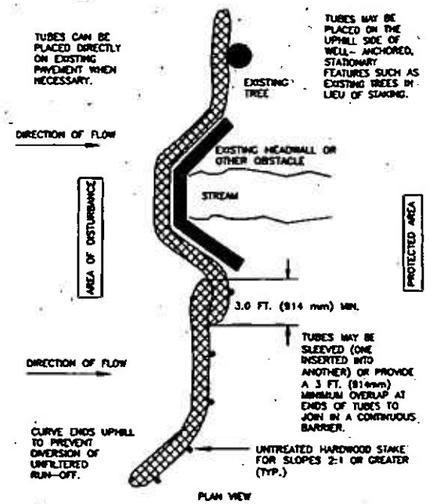
TAMP TUBES IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE. IT IS NOT NECESSARY TO TRENCH TUBES INTO EXISTING GRADE.

COMPOST TUBES SHALL BE STAKED OR LEANED AGAINST SUPPORTS (TREES, CINDER BLOCKS) ON SLOPES 2:1 OR GREATER.

WHERE NECESSARY, STAKING SHALL BE MIN. 1 INCH X 1 INCH X 3 FEET UNTREATED HARDWOOD STAKES, UP TO 5 FT. (1.5m) APART OR AS REQUIRED TO SECURE TUBES IN PLACE.

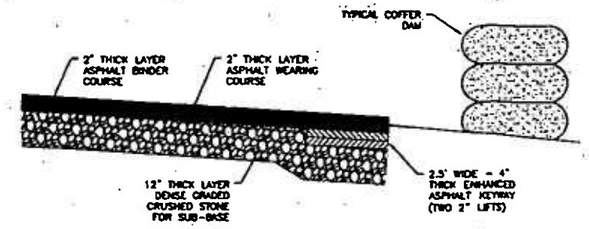
UNDISTURBED SOIL & VEGETATION. TUBES SHALL BE PLACED AS CLOSE TO LIMITS OF SOIL DISTURBANCE AS POSSIBLE.

LIMIT OF WORK



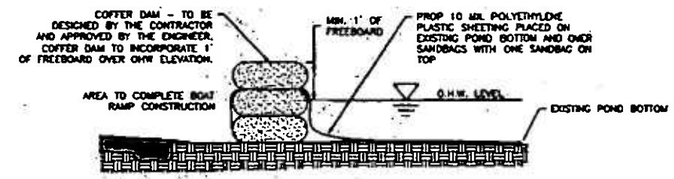
EROSION CONTROL DETAIL

-NOT TO SCALE-



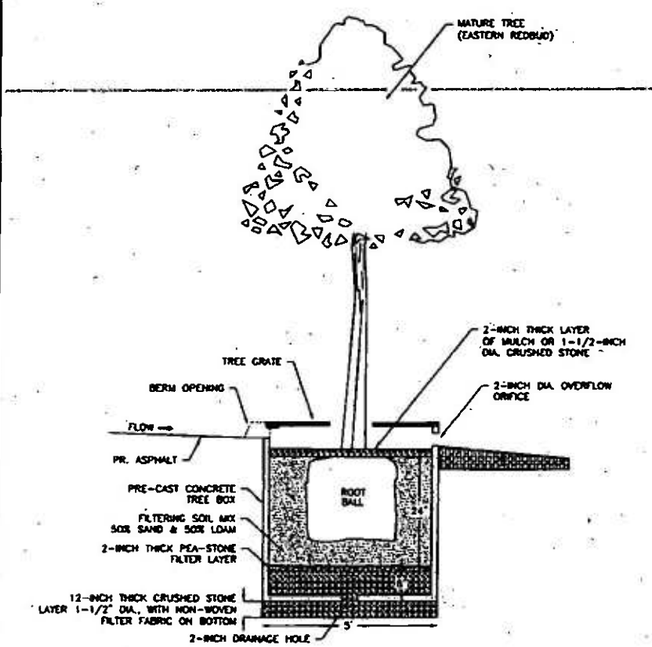
PROPOSED ASPHALT BOAT RAMP EXTENSION AND KEYWAY DETAIL

-NOT TO SCALE-



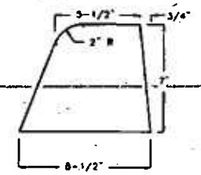
TYPICAL COFFERDAM DETAIL

-NOT TO SCALE-



TREE BOX FILTER DETAIL

-NOT TO SCALE-

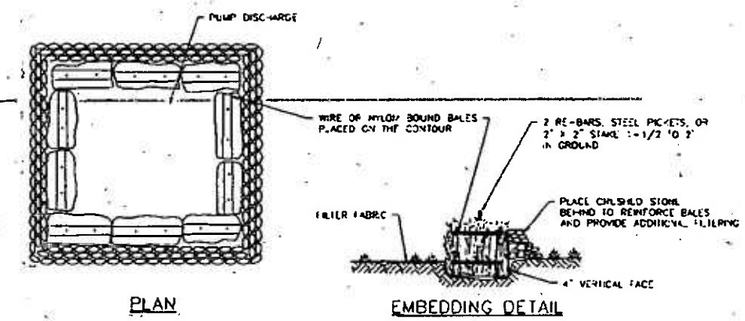


CURB CHART	
RADIUS	MAXIMUM LENGTH
21'	3'-0"
22'-28'	4'-0"
29'-35'	5'-0"
36'-42'	6'-0"
43'-49'	7'-0"
50'-56'	8'-0"
57'-60'	9'-0"
OVER 60'	10'-0"

NOTE:
ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.

BITUMINOUS CURB DETAIL

-NOT TO SCALE-

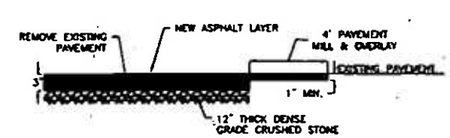


STRAW BALE BARRIER CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY BUTTED.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

DEWATERING DISCHARGE DETAIL

-NOT TO SCALE-



PAVEMENT MILL KEY DETAIL

-NOT TO SCALE-

GENERAL NOTES

No.	Revision/Issue	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED

21 Depot Street
Merrimack, NH 03054

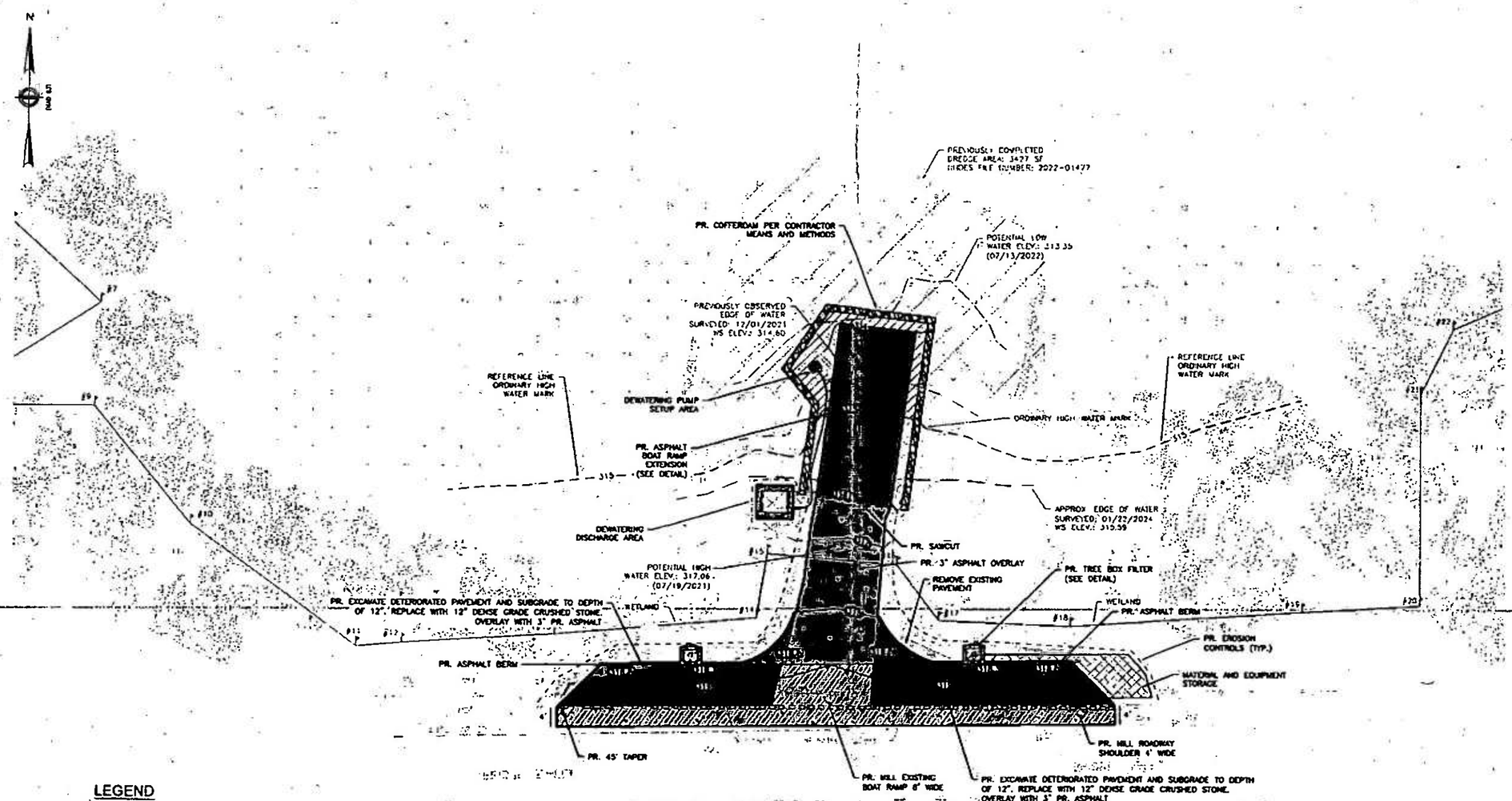
DETAILS

City of Manchester, NH

Project No.: 130-27-11
Date: 12/20/2013
Drawn By: JP
Checked By: MC
Scale: AS SHOWN

Sheet

D-1



LEGEND

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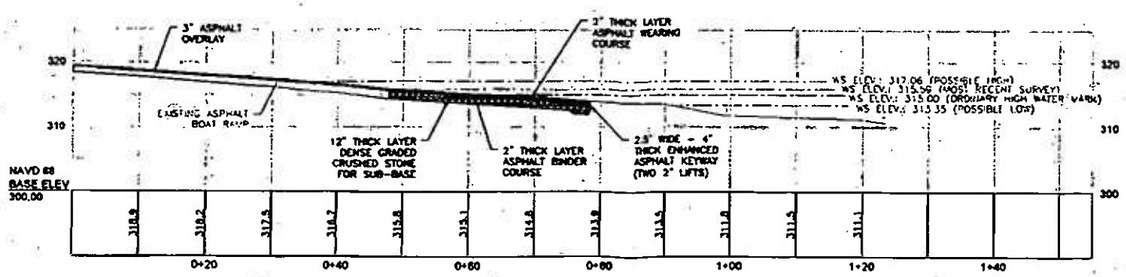

Scale 1" = 10'

GENERAL NOTES

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WETLAND IMPACTS

- TEMPORARY IMPACTS 225 SF
- PERMANENT IMPACTS 270 SF

PROJECT TO INCLUDE 22 CY OF DREDGE/FILL

PROPOSED ASPHALT BOAT RAMP ABOVE REFERENCE LINE 315.00' WILL BE COVERED UNDER A SHORELAND PBN.

- IMPACTS TO BE COVERED BY SHORELAND PBN

No.	Revision/Issue	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED

21 Depot Street
Merrimack, NH 03054

IMPACT AREAS
DREDGE AND FILL

City of Manchester, NH

Project No.: 170-21-11
Date: 12/20/2023
Drawn By: MP
Checked By: MC
Scale: As Shown

Sheet
P-1