



The State of New Hampshire  
**Department of Environmental Services**

**Robert R. Scott, Commissioner**

June 20, 2024



42

GAC

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

**REQUESTED ACTION**

Approve City Of Portsmouth's request to perform the following work on North Mill Pond in Portsmouth pursuant to NH Department of Environmental Services (NHDES) Wetlands Bureau permit #2023-02503, and in accordance with RSA 482-A:3. No comments were submitted by the Portsmouth Conservation Commission regarding the project as proposed.

Dredge and fill 1,291 square feet (SF) of tidal waters and impact 2,763 SF of the previously developed upland tidal buffer zone to rehabilitate an existing culvert by applying a 4.5-inch thick, spray-on geopolymer lining, remove 206 SF of the existing culvert footings to maintain hydraulic capacity of the crossing, replace riprap in-kind, and replace stormwater outfalls. Temporarily impact 18,665 SF of tidal waters and 8,405 SF of previously developed upland tidal buffer zone for construction access and erosion and sediment controls.

**Permanent Waiver Granted:** Permanently reduce the tree score within three waterfront buffer grid segments below the requirement per RSA 483-B:9, V, (a)(2)(D)(iv) for the purposes of rehabilitating an existing bridge.

**Temporary Waiver Granted:** Temporarily reduce the tree score within six waterfront buffer grid segments below the requirement per RSA 483-B:9, V, (a)(2)(D)(iv) for the purposes of rehabilitating an existing bridge. Restoration planting required to replace the points to meet RSA 483-B:9, V(a)(2)(D)(iv) within six waterfront buffer grids.

NHDES imposed the following conditions as part of this approval:

1. All work shall be done in accordance with approved plan sheets dated December 2023, and revised through April 2024, by Hoyle, Tanner, & Associates, Inc., and received by the NH Department of Environmental Services (NHDES) on December 21, 2023, and April 25, 2024, and the approved revegetation plan dated April 2024, by Hoyle, Tanner, & Associates, Inc, received by the NH Department of Environmental Services (NHDES) on April 25, 2024, in accordance with Env-Wt 307.16.
2. In accordance with Env-Wt 307.07, 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.
3. In accordance with Env-Wt 307.12(h), any trees cut in an area of authorized temporary impacts shall be cut at ground level with the shrub and tree roots left intact, to prevent disruption to the wetland soil structure and to allow stump sprouts to revegetate the work area.

[www.des.nh.gov](http://www.des.nh.gov)

29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095

NHDES Main Line: (603) 271-3503 • Subsurface Fax: (603) 271-6683 • Wetlands Fax: (603) 271-6588

TDD Access: Relay NH 1 (800) 735-2964

4. All waterfront buffer planting as shown on the approved plans shall be completed prior to final construction demobilization at the site as required to ensure compliance with RSA 483-B:9, V(a)(2)(D)(i) through (iv).
5. The plantings shall be inspected at the beginning and end of the growing season for a period of 3 years after initial plantings have been completed during which time any failed plantings shall immediately be replaced by the City of Portsmouth as required to ensure compliance with RSA 483-B:9, V(a)(2)(D)(i) through (iv).
6. At the completion of the 3 year monitoring period, the City of Portsmouth shall submit a report including photographs of the planted buffer to the Department as required in order to ensure compliance with RSA 483-B:9, V(a)(2)(D)(i) through (iv).
7. Work on stream crossings that requires any work in areas that are subject to flowing water shall maintain normal flows and prevent water quality degradation during the work by using best management practices, such as temporary by-pass pipes, culverts, or cofferdams in accordance with Env-Wt 904.02(b).
8. In-stream work shall be done only when the tide is seaward of the work area in accordance with Env-Wt 904.02(a)(2).
9. In accordance with Env-Wt 307.03(f)(1), a cofferdam or other turbidity control shall be used to enclose a dredging project conducted in or along the shoreline of a stream, river, creek, or any other surface water, provided that a coffer dam shall not be installed during periods of high flow.
10. In accordance with Env-Wt 307.03(f)(2), a coffer dam or other turbidity control shall be removed after work within the coffer dam or other turbidity control is completed, the contained water has returned to background clarity, and when removing the structure will not cause or contribute to a violation of Env-Wt 307.03(c)(6).
11. No activity shall be conducted in such a way as to cause or contribute to any violation of surface water quality standards per Env-Wt 307.03(a).
12. All work including management of soil stockpiles, shall be conducted so as to minimize erosion, minimize sediment transfer to surface waters or wetlands, and minimize turbidity in surface waters and wetlands per Env-Wt 307.03(b).
13. In accordance with Env-Wt 307.03(c)(3), water quality control measures shall be installed prior to start of work and in accordance with the manufacturer's recommended specifications.
14. In accordance with Env-Wt 307.03(c)(1), water quality control measures shall be selected and implemented based on the size and nature of the project and the physical characteristics of the site, including slope, soil type, vegetative cover, and proximity to jurisdictional areas.
15. In accordance with Env-Wt 307.10(c), turbidity controls shall be installed prior to construction and maintained during construction such that no turbidity escapes the immediate dredge area; and remain in place until suspended particles have settled and water at the work site has returned to normal clarity.
16. In accordance with Env-Wt 307.03(c)(2), water quality control measures shall be comprised of wildlife-friendly erosion control materials if erosion control blankets are utilized.
17. In accordance with Env-Wt 307.03(c)(5), water quality control measures shall be maintained so as to ensure continued effectiveness in minimizing erosion and retaining sediment on-site during and after construction.

18. In accordance with Env-Wt 307.03(c)(6), water quality control measures shall remain in place until all disturbed surfaces are stabilized to a condition in which soils on the site will not experience accelerated or unnatural erosion by achieving and maintaining a minimum of 85% vegetative cover using an erosion control seed mix, whether applied in a blanket or otherwise, that is certified by its manufacturer as not containing any invasive species; or placing and maintaining a minimum of 3 inches of non-erosive material such as stone.
19. In accordance with Env-Wt 307.03(c)(7), temporary water quality control methods shall be removed upon completion of work when compliance with Env-Wt 307.03(c)(6) is achieved.
20. In accordance with Env-Wt 307.05(e), to prevent the use of soil or seed stock containing nuisance or invasive species, the contractor responsible for work shall follow Best Management Practices for the Control of Invasive and Noxious Plant Species (Invasive Plant BMPs).
21. In accordance with Env-Wt 307.11(b), limits of fill shall be clearly identified prior to commencement of work and controlled in accordance with Env-Wt 307.03 to ensure that fill does not spill over or erode into any area where filling is not authorized.
22. In accordance with Env-Wt 307.11(a), fill shall be clean sand, gravel, rock, or other material that meets the project's specifications for its use; and does not contain any material that could contaminate surface or groundwater or otherwise adversely affect the ecosystem in which it is used.
23. Wetlands and surface waters where permanent impacts are not authorized shall be restored to their pre-impact conditions and elevation by replacing the removed soil and vegetation in their pre-construction location and elevation such that post-construction soil layering and vegetation schemes are as close as practicable to pre-construction conditions in accordance with Env-Wt 307.11(j) and Env-Wt 307.12(i).
24. In accordance with Env-Wt 307.11(c), slopes shall be immediately stabilized to prevent erosion into adjacent wetlands or surface waters.
25. In accordance with Env-Wt 307.12(a), within 3 days of final grading or temporary suspension of work in an area that is in or adjacent to surface waters, all exposed soil areas shall be stabilized by seeding and mulching, if during the growing season; or mulching with tackifiers on slopes less than 3:1 or netting and pinning on slopes steeper than 3:1 if not within the growing season.
26. In accordance with Env-Wt 307.15(a), heavy equipment shall not be operated in any jurisdictional area unless specifically authorized by this permit.
27. In accordance with Env-Wt 307.03(h), equipment shall be staged and refueled outside of jurisdictional areas (unless allowed) and in accordance with Env-Wt 307.15.
28. In accordance with Env-Wt 307.03(g)(1), the person in charge of construction equipment shall inspect such equipment for leaking fuel, oil, and hydraulic fluid each day prior to entering surface waters or wetlands or operating in an area where such fluids could reach groundwater, surface waters, or wetlands.
29. In accordance with Env-Wt 307.03(g)(3) and (4), the person in charge of construction equipment shall maintain oil spill kits and diesel fuel spill kits, as applicable to the type(s) and amount(s) of oil and diesel fuel used, on site so as to be readily accessible at all times during construction; and train each equipment operator in the use of the spill kits.
30. In accordance with Env-Wt 307.03(g)(2), the person in charge of construction equipment shall repair any leaks prior to using the equipment in an area where such fluids could reach groundwater, surface waters, or wetlands.

#### EXPLANATION

NHDES approved this project on May 15, 2024. NHDES supported its decision with the following findings:

1. This project is classified as a major impact project per Rule Env-Wt 903.01(g)(3)(b), for a project to rehabilitate a tier 4 stream crossing.
2. On September 13, 2023, the Department received correspondence from the NH Fish and Game Department (NHF&G) dated June 9, 2022, stating that "[NHF&G] do not expect impacts to [the protected anadromous fish species] as a result of this project."
3. NHDES finds that the project as approved and conditioned will not have an unreasonable adverse impact on the value of such areas as sources of nutrients for finfish, crustacea, shellfish and wildlife of significant value, nor will it damage or destroy habitats and reproduction areas for plants, fish and wildlife of importance.
4. No comments were received by NHDES from the Portsmouth Conservation Commission about this application.
5. On December 19, 2023, the applicant obtained a statement from the Pease Development Authority, Division of Ports and Harbors regarding the projects impact on navigation and passage stating, "[w]e examined the proposed site and found that the structure will have no negative effect on navigation in the channel," per Rule Env-Wt 603.09.
6. Per Rule Env-Wt 313.01(a)(5), and as required by RSA 482-A:11, II, this permit for work to dredge or fill will not 'infringe on the property rights or unreasonably affect the value or enjoyment of property of abutting owners'.
7. In accordance with RSA 483-B:9, V, (i) the commissioner shall have the authority to grant waivers from the minimum standards of this section. Such authority shall be exercised if the commissioner deems that strict compliance with the minimum standards of this section will provide no material benefit to the public and have no material adverse effect on the environment or the natural resources of the state.
8. In accordance with RSA 483-B:9, V(a)(2)(D)(v), the department shall not approve any application that would result in a combined vegetation score of less than the minimum score required where the segment initially meets the minimum score or would result in any reduction of the point score where the segment does not initially meet the minimum score.
9. The project as proposed would result in the removal of trees in nine waterfront buffer grid segments, reducing the point score below the minimum point score required by RSA 483-B:9, V(a)(2)(D)(iv), to install riprap for erosion protection adjacent to the bridge footings, replace a stormwater outfall, and to construct a temporary construction laydown and access area.
10. The Applicant requested a permanent waiver of RSA 483-B:9, V(a)(2)(D)(v) to reduce a waterfront buffer segment point score in three waterfront buffer grids within the right of way such that it will permanently fail to meet the minimum point score.
11. Granting a permanent waiver of RSA 483-B:9, V(a)(2)(D)(v) would have no significant adverse effects on the environment or the natural resources of the state.
12. The Applicant requested a temporary waiver of RSA 483-B:9, V(a)(2)(D)(v) to reduce a waterfront buffer segment point score in six waterfront buffer grids such that they will temporarily fail to meet the minimum point score.
13. The Applicant has proposed planting of 1-5 replacement trees in each of the waterfront grids segments up to the minimum point score that will result in no net reduction of points each segment, and to replace the existing shrubs and ground covers in-kind in order to comply with RSA 483-B:9, V(a)(2)(D)(iv).

14. Granting a temporary waiver of RSA 483-B:9, V(a)(2)(D)(v) would have no significant adverse effects on the environment or the natural resources of the state.
15. Permit conditions include monitoring the plantings for 3 years with a report submitted to the Department and the requirement that any plants lost shall be replaced by the permittee.
16. The strict compliance with the minimum standards of this section will not provide material benefit to the public and will have no material adverse effect on the environment or the natural resources of the state and therefore, the requirements for a permanent and temporary waiver to RSA 483-B:9, V(a)(2)(D)(v).
17. NHDES finds that the requirements for a public hearing, as established in RSA 482-A, do not apply as the project will not have a significant environmental impact, as defined in New Hampshire Administrative Rule Env-Wt 104.19, on the resources protected by RSA 482-A, and, is not of substantial public interest, as defined in New Hampshire Administrative Rule Env-Wt 104.32.
18. The Department 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 100-1000.

NHDES Wetlands Bureau permit #2023-02503 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.



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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: City of Portsmouth

TOWN NAME: Portsmouth

	<p align="center">Administrative <b>COMPLETE</b> Only SEP 13 2023</p>	<p align="center">Administrative Use Only</p>	File No.: 202302502
			Check No.: 224438
			Amount: 4,305.00
			Initials: BH

A person may request a waiver to 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. 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 request form.

<p align="center"><b>Section 1 - Required Planning for all projects (Env-Wt 306.05; RSA 482-A:3, (d)(2))</b></p> <p>Please use the <u>Wetland Permit Planning Tool (WPPT)</u>, the <u>Natural Heritage Bureau (NHB) DataCheck Tool</u>, the <u>Aquatic Restoration Mapper</u>, or other sources to assist in identifying key features such as: <u>priority resource areas (PRAs)</u>, <u>protected species or habitats</u>, coastal areas, designated rivers, or designated prime wetlands.</p>	
Has the required planning been completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the property contain a PRA? If yes, provide the following information:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<ul style="list-style-type: none"> <li>Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&amp;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).</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> <li>Protected species or habitat?                             <ul style="list-style-type: none"> <li>If yes, species or habitat name(s):</li> <li>NHB Project ID #: NHB23-1686</li> </ul> </li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> <li>Bog?</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> <li>Floodplain wetland contiguous to a tier 3 or higher watercourse?</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> <li>Designated prime wetland or duly-established 100-foot buffer?</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> <li>Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is the property within a Designated River corridor? If yes, provide the following information:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> <li>Name of Local River Management Advisory Committee (LAC):</li> <li>A copy of the application was sent to the LAC on Month:    Day:    Year:</li> </ul>	
For dredging projects, is the subject property contaminated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> <li>If yes, list contaminant: N/A</li> </ul>	

Is there potential to impact impaired waters, class A waters, or outstanding resource waters?

Yes  No

For stream crossing projects, provide watershed size (see Wetland Permit Planning Tool or Stream Stats): 2,628 acres

### 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.

The Maplewood Avenue Bridge (NH DOT Bridge No. 231/103) is a single-span stone arch bridge that was initially constructed in 1896, has a total span length of 25' and carries two lanes of traffic on a 32' wide paved roadway with sidewalks on each side. The City of Portsmouth (City) is proposing to repair the grouted corrugated metal plate arch (CMPA) liner that was installed in 1976 as part of a previous rehabilitation project. The Maplewood Avenue bridge is a heavily trafficked vital piece of infrastructure within the City as it acts as gateway to the downtown area. The bridge is currently on the State's 'Red List' of poor condition bridges due to its condition rating of 3, or 'Serious'. Closure of the bridge would be detrimental to the City and the stakeholders in the area.

Due to the deteriorated condition of the CMPA, compromised stone arch, and limited funding sources, the City is proposing a repair project to stabilize the bridge for the protection of the traveling public. The repair will consist of installation of a spray-applied geopolymer liner to the inside surface of the metal culvert liner that will restore structural integrity. In addition, sections of the historic retaining wall supporting Maplewood Avenue will be reconstructed and stabilized with reuse of the existing stone. Supplemental riprap will be re-installed along areas of the north side inlet to protect the restored retaining walls from future tidal impacts. Drainage system improvements, roadway reconstruction and guardrail support slab replacement will mitigate the existing roadway settlement, ponding and sidewalk rotation. The service life of the repaired structure will be approximately ten to fifteen years, at which time a complete replacement would need to occur. Traffic will be managed by a combination of alternating 1-way traffic through the site and portions of complete shutdown with a detour.

There will be 20,227 sq. ft. of temporary impacts and 537 sq. ft. of permanent impacts as a result of this project.

### SECTION 3 - PROJECT LOCATION

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

ADDRESS: Maplewood Avenue

TOWN/CITY: Portsmouth

TAX MAP/BLOCK/LOT/UNIT: Tax Maps 123 & 124

US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: North Mill Pond /  N/A

(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):

\* Approximate center location of the project area

43.079684 / -70.765366

### 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: City of Portsmouth / Peter Rice

MAILING ADDRESS: 680 Peverly Hill Rd

TOWN/CITY: Portsmouth

STATE: NH

ZIP CODE: 03801

EMAIL ADDRESS: [price@cityofportsmouth.com](mailto:price@cityofportsmouth.com)

FAX: 603.427.1539

PHONE: 603.766.1411

[lm@des.nh.gov](mailto:lm@des.nh.gov) or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

[www.des.nh.gov](http://www.des.nh.gov)

ELECTRONIC COMMUNICATION: By initialing here: DD, 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.: Peace, Kimberly R.

COMPANY NAME: Hoyle, Tanner & Associates, Inc.

MAILING ADDRESS: 150 Dow Street

TOWN/CITY: Manchester

STATE: NH

ZIP CODE: 03101

EMAIL ADDRESS: [kpeace@hoyletanner.com](mailto:kpeace@hoyletanner.com)

FAX: 603-669-4168

PHONE: 603-460-5205

ELECTRONIC COMMUNICATION: By initialing here KRP, 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, Env-Wt 700, or Env-Wt 900 have been met (Env-Wt 313.01(a)(3))**

In accordance with Env-Wt 400 the jurisdictional areas within the project limits have been delineated by Thomas Sokoloski, CWS #127, of TES Environmental Consultants, LLC. A copy of the Wetland Description and Functions and Values Assessment Report is included with this application. The jurisdictional areas are shown on the attached wetland impact plan and the Existing Conditions plan that is stamped by the CWS.

In accordance with Env-Wt 311.01 the Report prepared by TES Environmental Consultants, LLC. includes a functional assessment. While the project will result in unavoidable impacts, the report concludes the proposed project would not be expected to cause any degradation of the functions and values associated with Mill Pond and the adjacent wetlands.

The City hereby requests a waiver of the Coastal Functional Assessment to address Env-Wt 603.04 as strict adherence to the requirements would not be in the best interest of the public or the environment. The functional assessment provided in the report by TES provides sufficient information to assess the value of the resource, and that the work to be done on the bridge cannot be completed without impacts to the single resource in the project area, thus a detailed assessment of functions is not useful when comparing potential alternatives to the work being proposed. Having the waiver granted will meet the criteria in Env-Wt 204.05.

The project is a Tier 4 stream crossing and, as such, has been designed in accordance with Env-Wt 600 and Env-Wt 900. Project specific information is contained within this permit application.

[irm@des.nh.gov](mailto:irm@des.nh.gov) or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

[www.des.nh.gov](http://www.des.nh.gov)

**Section 8 - Avoidance and Minimization**

The Avoidance and Minimization Checklist is attached to this permit application.

**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: March Day: 16 Year: 2023

N/A - Mitigation is not required) See Supplemental Narrative for details.

**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. The proposed removal of 206 square feet of fill below HOTL will offset the 38 square feet of permanent fill proposed to the extent that mitigation is not required. See Supplemental Narrative for mitigation details.

**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/ivers, 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			<input type="checkbox"/>			<input type="checkbox"/>
	Scrub-shrub Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Emergent Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Wet Meadow			<input type="checkbox"/>			<input type="checkbox"/>
	Vernal Pool			<input type="checkbox"/>			<input type="checkbox"/>
	Designated Prime Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Duly-established 100-foot Prime Wetland Buffer			<input type="checkbox"/>			<input type="checkbox"/>
Surface Water	Intermittent / Ephemeral Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Perennial Stream or River			<input type="checkbox"/>			<input type="checkbox"/>
	Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - River			<input type="checkbox"/>			<input type="checkbox"/>
Banks	Bank - Intermittent Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Bank - Perennial Stream / River			<input type="checkbox"/>			<input type="checkbox"/>
	Bank / Shoreline - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
Tidal	Tidal Waters	38 sf		<input type="checkbox"/>	19,452 sf		<input type="checkbox"/>
	Tidal Marsh			<input type="checkbox"/>			<input type="checkbox"/>
	Sand Dune			<input type="checkbox"/>			<input type="checkbox"/>
	Undeveloped Tidal Buffer Zone (TBZ)			<input type="checkbox"/>			<input type="checkbox"/>

previously-developed TBZ Jocking - Tidal Water	499 sf	<input type="checkbox"/>	775 sf	<input type="checkbox"/>
<b>TOTAL</b>	<b>537 sf</b>		<b>20,227 sf</b>	

**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):	20,764 SF	x \$0.40 =	\$8,305.60
Seasonal docking structure:	SF	x \$2.00 =	\$
Permanent docking structure:	SF	x \$4.00 =	\$
Projects proposing shoreline structures (including docks) add \$400 =			\$
<b>Total =</b>			<b>\$8,305.60</b>

The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = **\$8,305.60**

**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: PR To the best of the signer's knowledge and belief, all required notifications have been provided.
- Initials: PR 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: PR 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: N/A 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) <i>[Signature]</i>	PRINT NAME LEGIBLY: Peter Rice	DATE: 9/15/22
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:

SIGNATURE (AGENT, IF APPLICABLE): <i>Kimberly R. Peace</i>		PRINT NAME LEGIBLY: Kimberly R. Peace	DATE: 9/6/2023
<b>SECTION 16 - TOWN / CITY CLERK SIGNATURE (Env-Wt 311.04(f))</b>			
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: <i>Kell L Barnaby</i>		PRINT NAME LEGIBLY: Kell, L Barnaby	
TOWN/CITY: <i>Portsmouth</i>		DATE: <i>September 11, 2023</i>	

**DIRECTIONS FOR TOWN/CITY CLERK:**

Per RSA 482-A:3, I(a)(1)

1. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
2. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
3. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board.
4. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

**DIRECTIONS FOR APPLICANT:**

Submit the original permit application form bearing the signature of the Town/City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery at the address at the bottom of this page. Make check or money order payable to "Treasurer - State of NH".



Document Path: K:\9051103-GIS\Graphics\USGS Map.mxd



Project Location  
Bridge No. 231/103



**HOYLE  
TANNER**

190 Dow Street  
Manchester, NH 03101-1227  
Tel 603-889-8655  
Fax 603-889-4168  
Web Page www.hoyletanner.com

MAPLEWOOD AVENUE BRIDGE  
OVER NORTH MILL POND  
PORTSMOUTH, NH

APPENDIX

DR. BY  
dcoon

DATE  
10/9/2020

SCALE  
1 inch = 2,000 feet

PROJECT LOCATION MAP

A

New Hampshire Natural Heritage Bureau  
NHB DataCheck Results Letter

---

To: Hoyle, Tanner & Associates / Deb Coon  
Hoyle, Tanner & Associates, Inc.  
150 Dow Street  
Manchester, NH 03101

From: NH Natural Heritage Bureau

Date: 6/1/2023 (This letter is valid through 6/1/2024)

Re: Review by NH Natural Heritage Bureau of request dated 6/1/2023

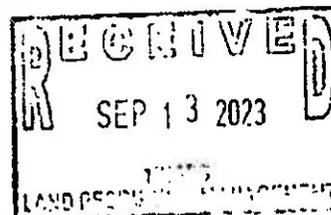
Permit Type: Wetland Standard Dredge & Fill - Major

NHB ID: NHB23-1686

Applicant: Hoyle, Tanner & Associates / Deb Coon

Location: Portsmouth

Tax Map: 123 & 124, Tax Lot: N/A  
Address: Maplewood Ave



**Proj. Description:** The project is to repair the grouted corrugated metal plate arch (CMPA) liner that was installed in 1976 as part of previous rehabilitation project- the repair will consist of installation of a spray-applied geopolymer liner to the inside surface of the metal culvert liner to restore structural integrity. In addition, sections of the retaining wall supporting Maplewood Avenue will be reconstructed or stabilized with reuse of the existing stone. Supplemental riprap will be reinstalled along areas of the north side inlet to protect the restored retaining walls from future tidal impacts. Drainage system improvements, roadway reconstruction, and rail support slab replacement will mitigate the existing roadway settlement, ponding, and sidewalk rotation. This Request replaces expired NHB22-1712

The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

Based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.

New Hampshire Natural Heritage Bureau  
NHB DataCheck Results Letter

---

MAP OF PROJECT BOUNDARIES FOR: NHB23-1686



**Abutters List**  
**New Hampshire Department of Environmental Services**  
**WETLAND PERMIT APPLICATION**

**Repair of the Maplewood Avenue Bridge over North Mill Pond, Portsmouth, NH**

Map/Lot	Owner	Property Address	Mailing Address
123/9	Jackson Point LLC		
123/1	230 Maplewood Ave LLC		
123/4	Regan Electric Co. Inc.		
123/10	31 Raynes LLC C/O Portsmouth Chevrolet		
124/7-1 124/7-2	Gideon Walker House Trust James H. Somes Jr., Trustee		

**RECEIVED**  
SEP 13 2023  
LANDS & FORESTRY

CITY OF PORTSMOUTH  
ROCKINGHAM COUNTY  
NEW HAMPSHIRE

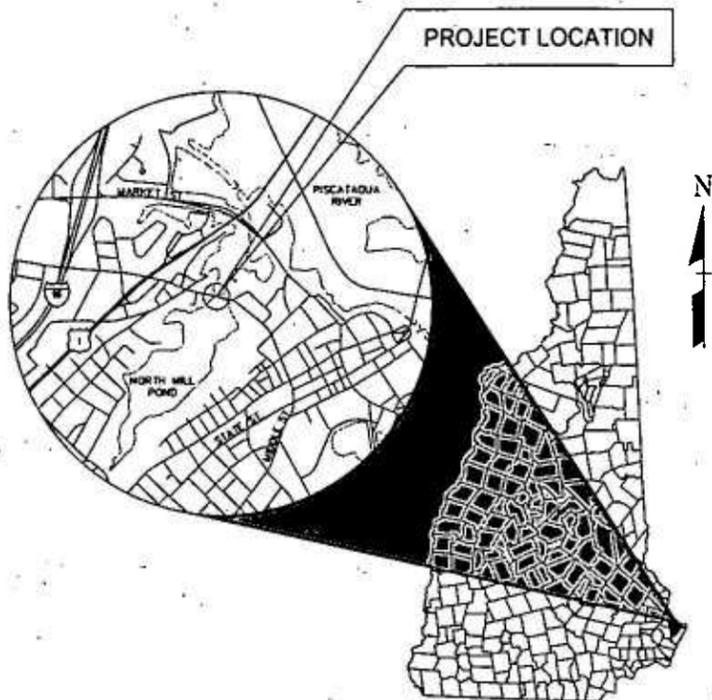


PLANS OF PROPOSED BRIDGE REPAIRS  
MAPLEWOOD AVENUE OVER NORTH MILL POND  
NH DOT BRIDGE NO. 231/103

DECEMBER 2023



DRAWING SIZES HAVE BEEN REDUCED  
DO NOT SCALE, USE DIMENSIONS GIVEN



LOCATION MAP

INDEX OF SHEETS

SHEET NO. DESCRIPTION

- 1 TITLE SHEET
- 2 STANDARD SYMBOLS SHEET (1 OF 2)
- 3 STANDARD SYMBOLS SHEET (2 OF 2)
- 4 PROJECT NOTES
- 5 PROJECT NOTES AND SUMMARY OF QUANTITIES
- 6 TYPICAL SECTIONS
- 7 DETOUR PLAN
- 8 SITE PLAN
- 9 UTILITY AND DRAINAGE PLAN
- 10 WETLAND IMPACTS PLAN
- 11 WATER DIVERSION PLAN
- 12 BRIDGE REPAIR DETAILS
- 13 RAIL AND SUPPORT SLAB JOINT LAYOUT PLAN
- 14 RAIL SUPPORT SLAB CONSTRUCTION DETAILS
- 15 RETAINING WALL DETAILS
- 16 RAIL DETAILS
- 17 ROADWAY PROFILE

\* INDICATES SHEETS NOT INCLUDED IN THIS SUBMISSION

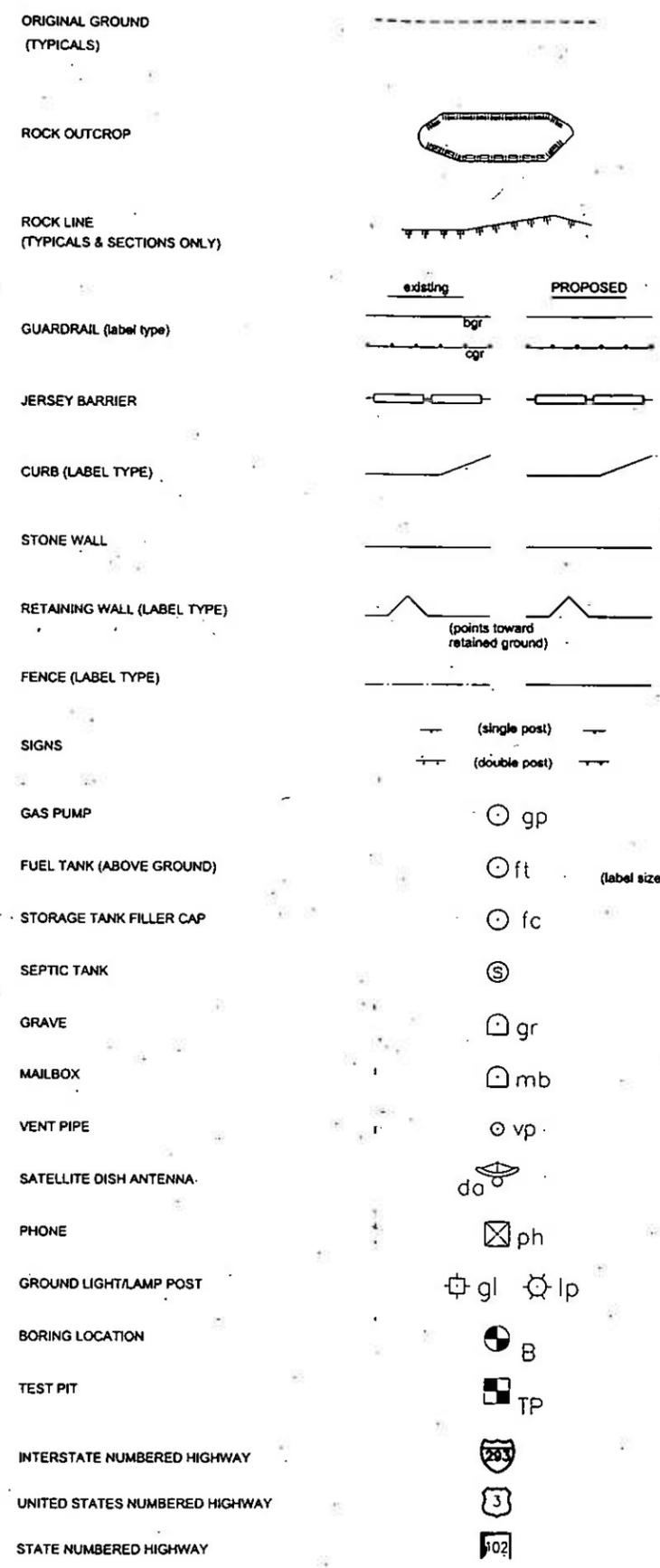
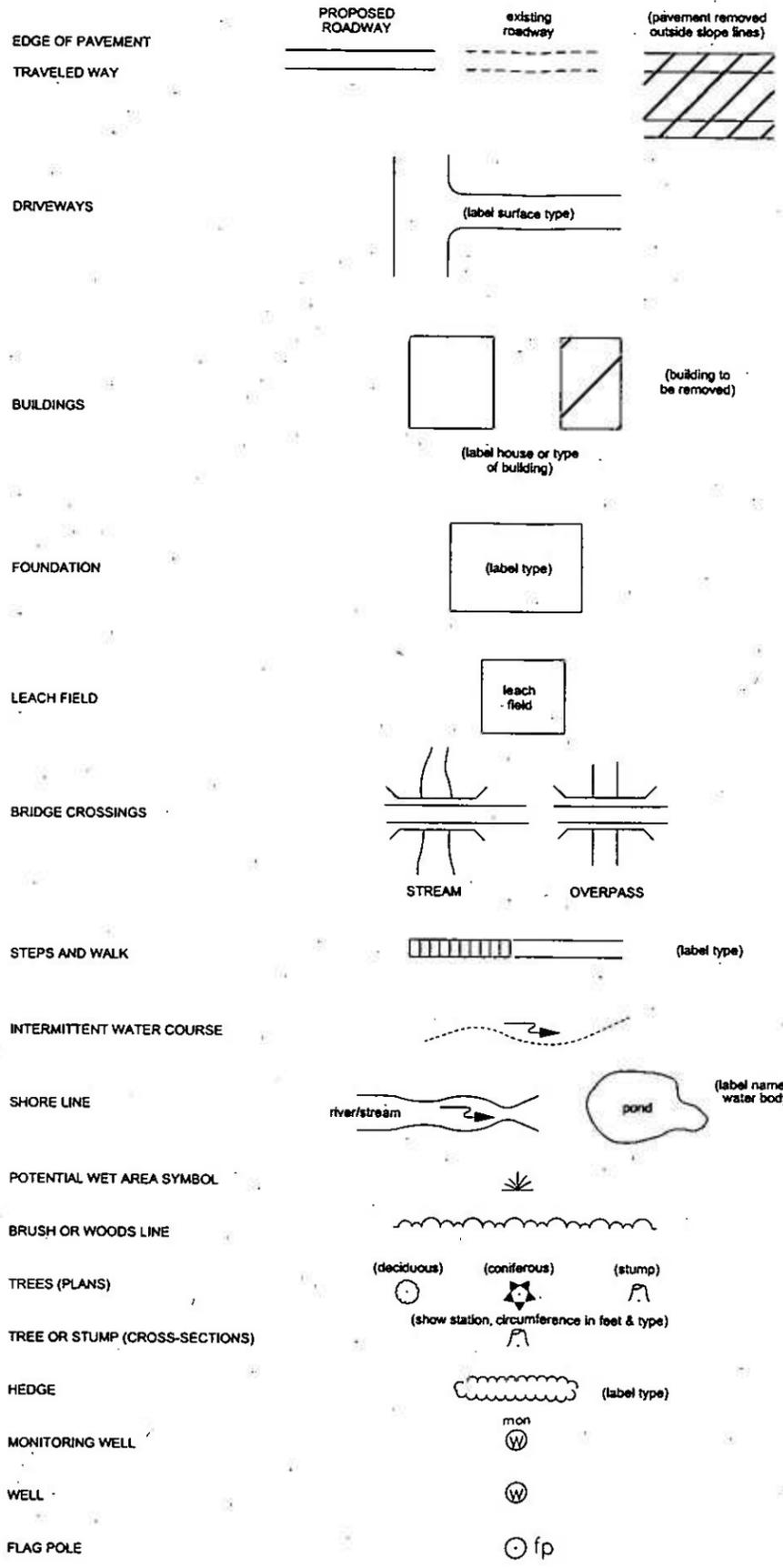
REV.	DESCRIPTION	DATE
0	ADDRESS INDEX REVIEW COMMENTS	12/2023

HOYLE TANNER  
 Please International Tradeport  
 100 International Drive, Suite 360  
 Portsmouth, NH 03801  
 (603) 431-2520 www.foyletanner.com

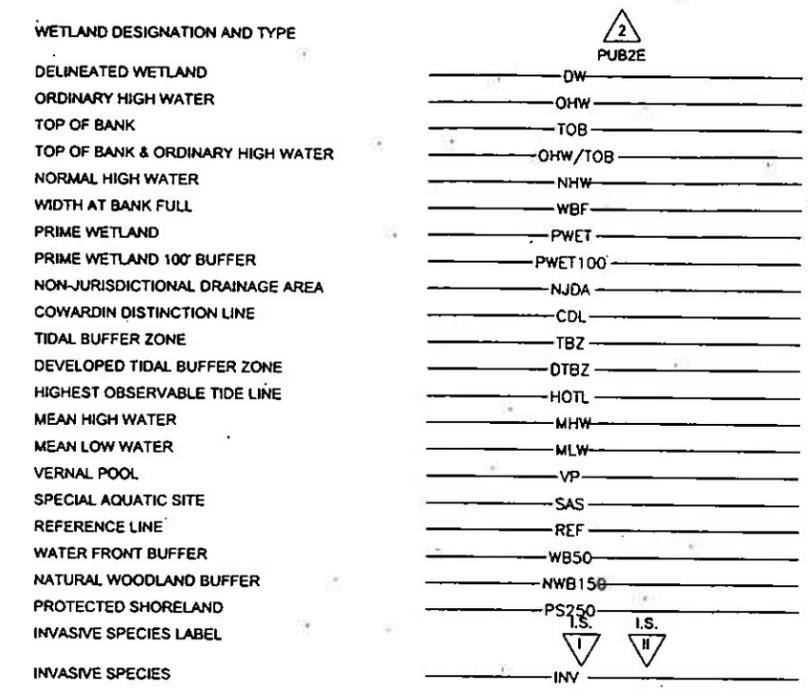
PORTSMOUTH, NEW HAMPSHIRE  
 MAPLEWOOD AVENUE OVER NORTH MILL POND  
 TITLE SHEET

PROJECT NO. 20.905110.00  
 SHEET NO.  
**1**  
 SHEET 1 OF 17

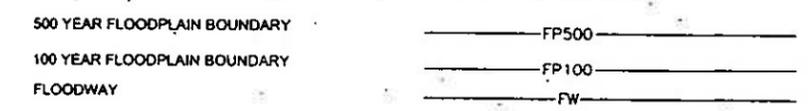
# GENERAL



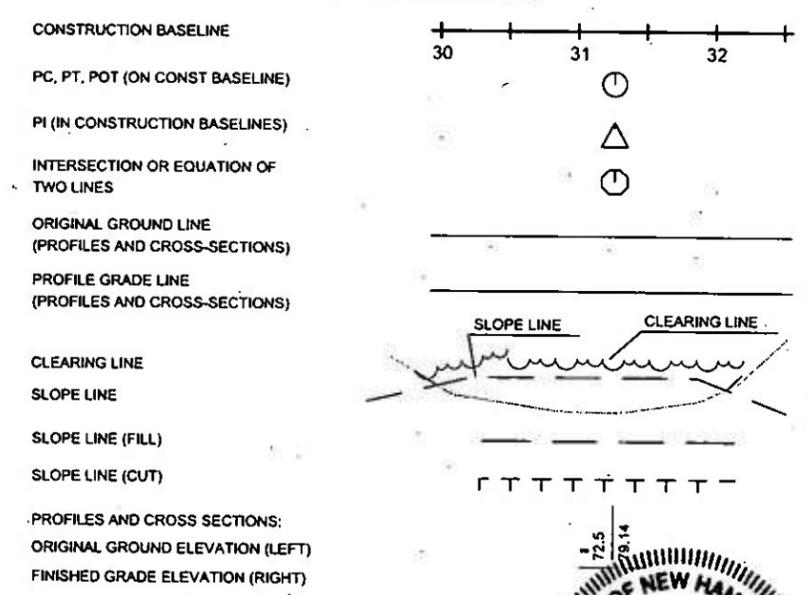
# SHORELAND - WETLAND



# FLOODPLAIN / FLOODWAY



# ENGINEERING



REV.	DESCRIPTION	DATE
0	ADDRESS CHANGE REVIEW COMMENTS	12/20/23

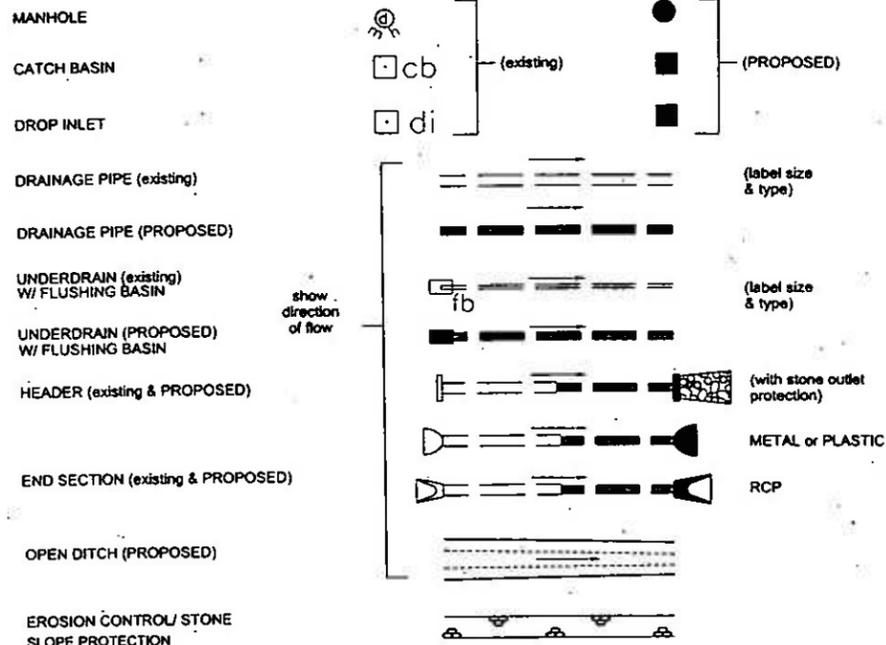
HOYLE TANNER  
 Pease International Truroport  
 100 International Drive, Suite 360  
 Portsmouth, NH 03801  
 (603) 431-2520 www.foyletanner.com

PORTSMOUTH, NEW HAMPSHIRE  
 MAPLEWOOD AVENUE OVER NORTH MILL POND  
 STANDARD SYMBOLS SHEET (1 OF 2)

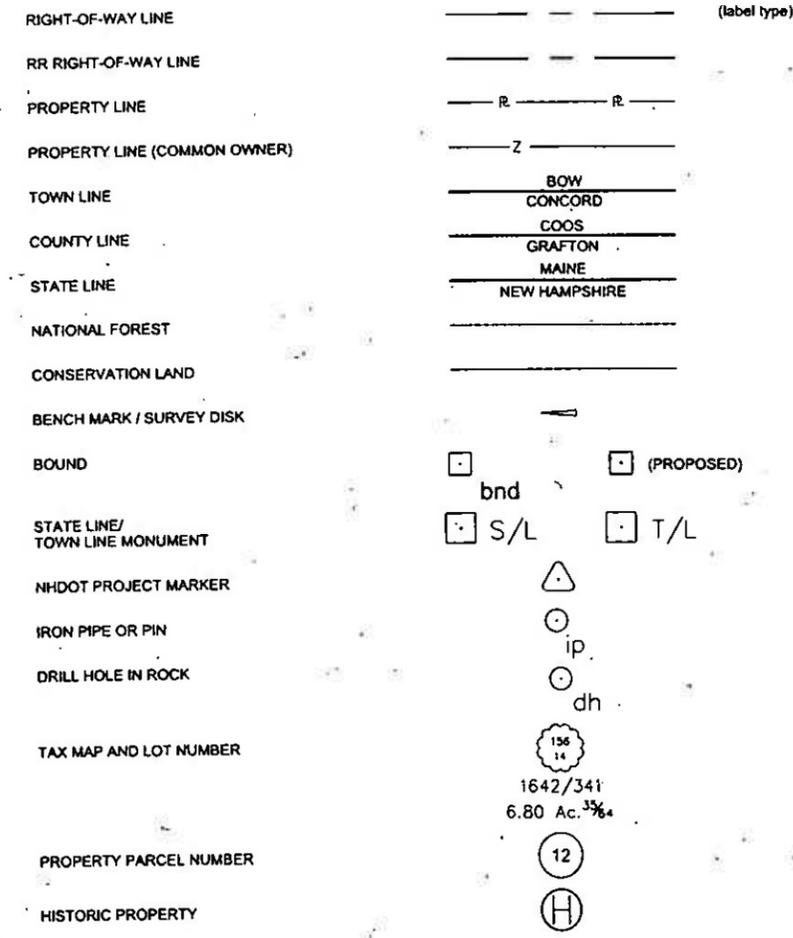
PROJECT NO. 20\_905110.00  
 SHEET NO.  
**2**  
 SHEET 2 OF 17

12/19/2023 9:01 AM C:\PROJECTS\20\_905110\_00\Maplewood Avenue Over North Mill Pond\CADD\CADD\20\_905110\_00\SYMBOLS.dwg

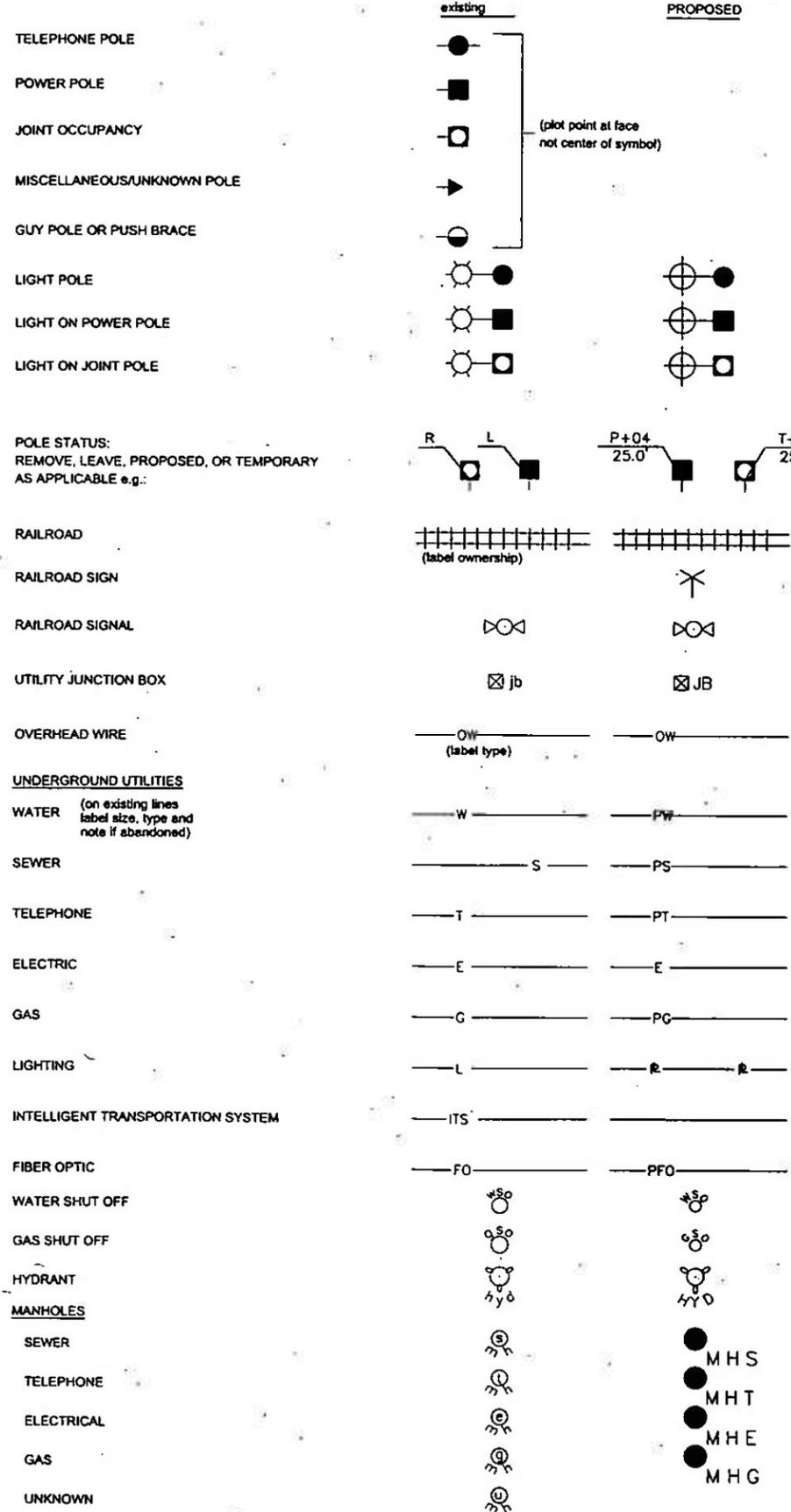
### DRAINAGE



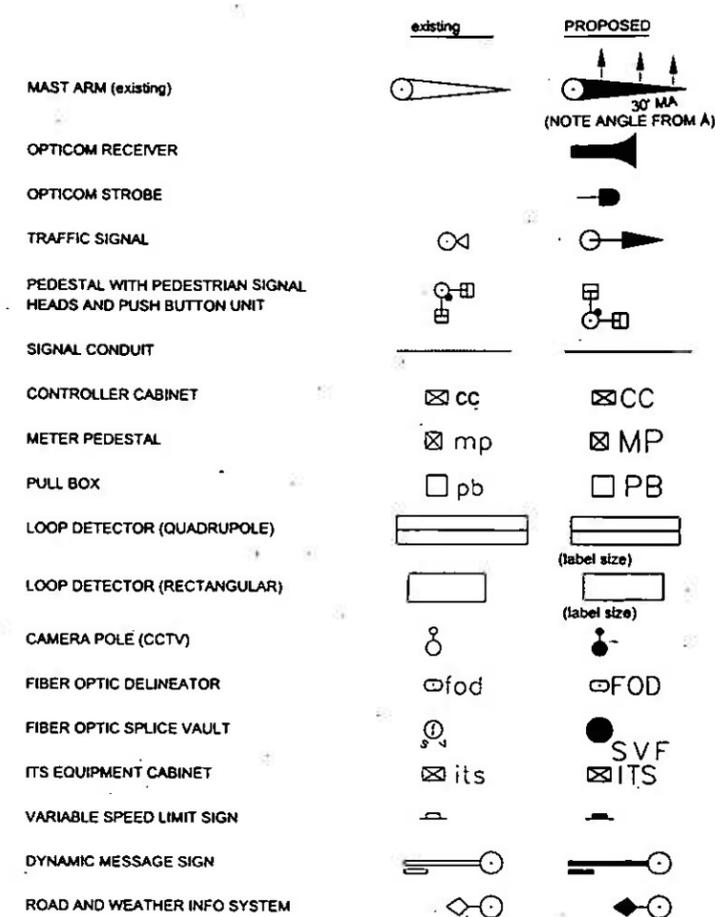
### BOUNDARIES / RIGHT-OF-WAY



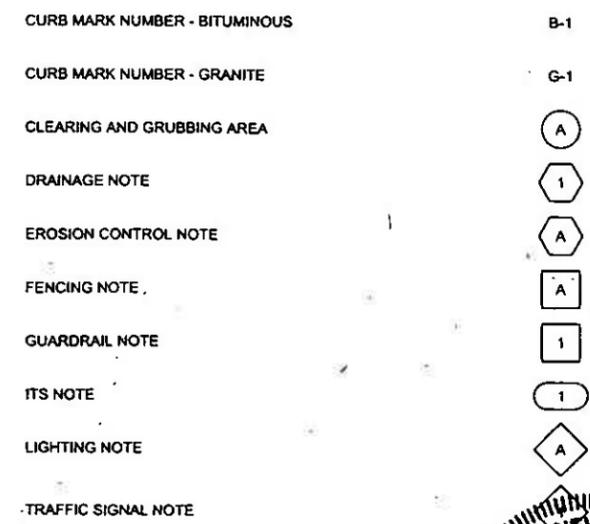
### UTILITIES



### TRAFFIC SIGNALS / ITS



### CONSTRUCTION NOTES



REV	DESCRIPTION	DATE
0	ADDRESS REVIEW COMMENTS	12/20/23

**HOYLE TANNER**

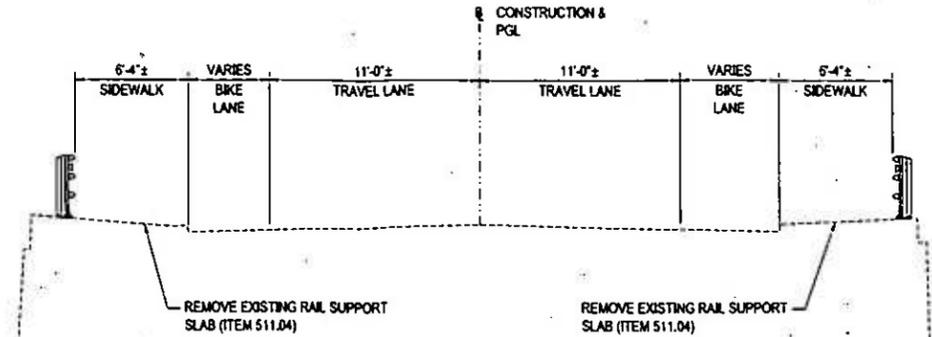
Professional Engineer  
 100 International Drive, Suite 360  
 Portsmouth, NH 03801  
 (603) 431-3520 www.foyletanner.com

PORTSMOUTH, NEW HAMPSHIRE

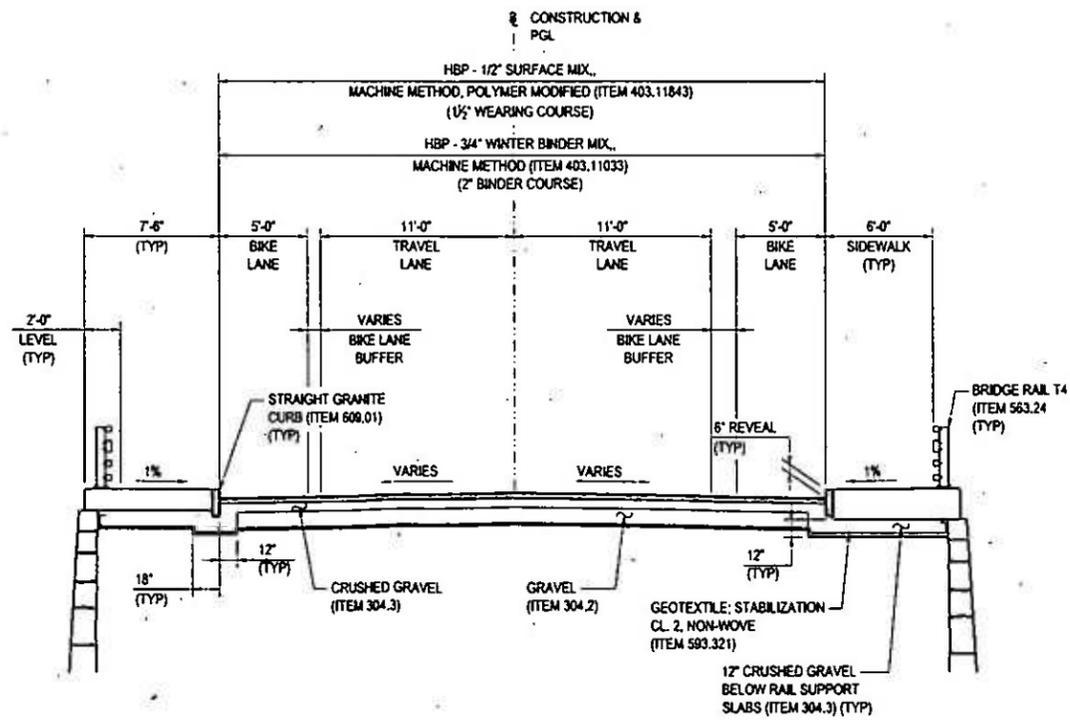
MAPLEWOOD AVENUE OVER NORTH MILL POND

STANDARD SYMBOLS SHEET (2 OF 2)

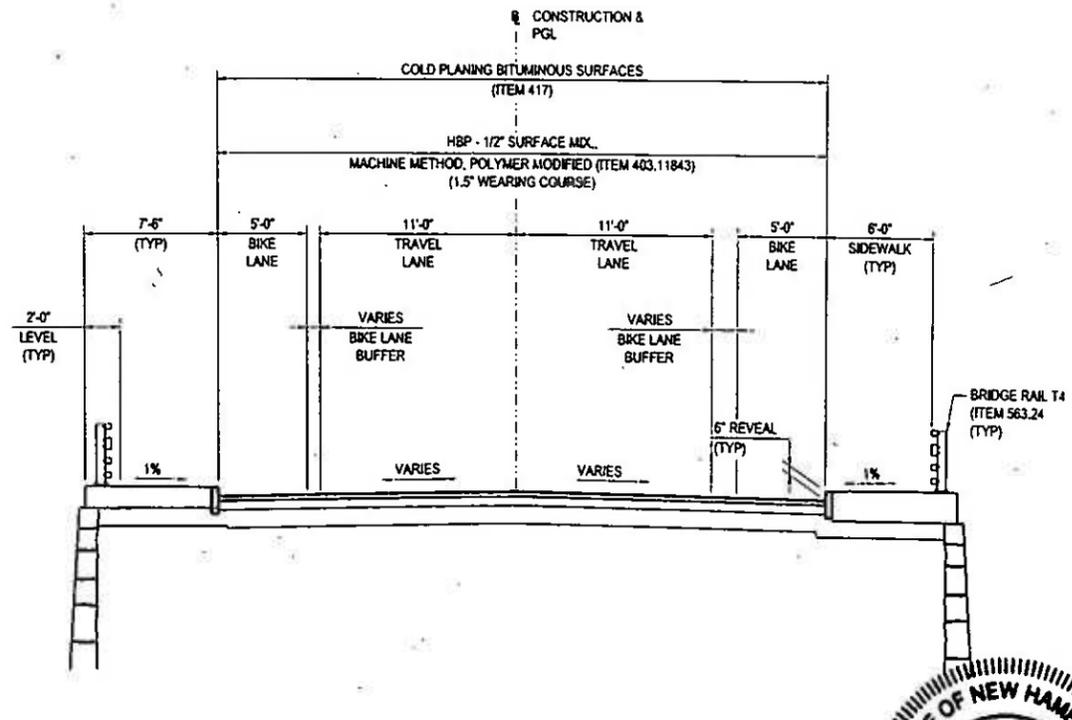




**EXISTING TYPICAL SECTION**  
NOT TO SCALE



**PROPOSED TYPICAL SECTION  
(FULL DEPTH CONSTRUCTION)**  
STA 3+XX00 TO STA 5+00  
NOT TO SCALE



**PROPOSED TYPICAL SECTION  
(PARTIAL DEPTH CONSTRUCTION)**  
STA 2+25 TO STA 3+00  
STA 5+00 TO STA 6+15  
NOT TO SCALE



REV.	DESCRIPTION	DATE
0	ADDRESS IN-DEED REVIEW COMMENTS	12/09/23

NO.	DATE	BY	CHKD	APP'D
DESIGNED				
DRAWN				
CHECKED				
IN-CHARGE				

SCALE AS SHOWN  
DATE  
DECEMBER 2023

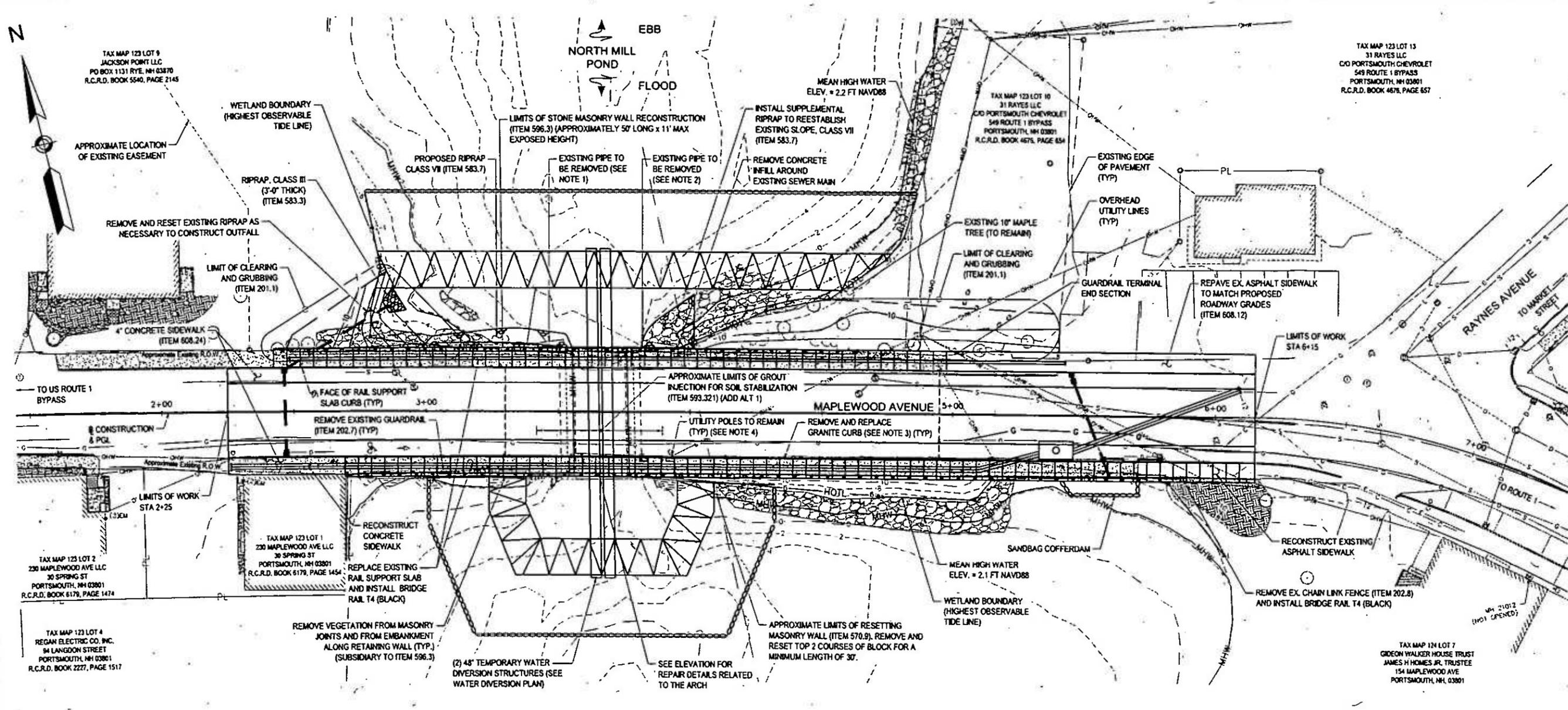
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**HOYLE TANNER**  
 Pease International Tradeport  
 100 International Drive, Suite 360  
 Portsmouth, NH 03801  
 (603) 431-2520 www.hoyletanner.com

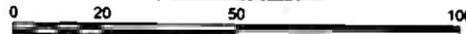
PORTSMOUTH, NEW HAMPSHIRE  
 MAPLEWOOD AVENUE OVER NORTH MILL POND  
 TYPICAL SECTIONS

PROJECT NO. 20.905110.00  
 SHEET NO.

6



**SITE PLAN**



**GENERAL ENVIRONMENTAL IMPACT NOTES**

- ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENT MATS, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTIFILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES.
- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NHFG NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING THE NHFG DATACHECK TOOL RESULTS LETTER ASSIGNED NUMBER (NH822-1712), THE PROJECT NAME (MAPLEWOOD AVENUE OVER NORTH MILL POND), AND THE TERM "WILDLIFE SPECIES OBSERVATION".
- PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE.
- IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG.
- NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

VERTICAL CONTROL (TBM) TABLE			
NUMBER	ELEVATION	STATION & OFFSET	DESCRIPTION
TBM 6032A	12.56		CHISELED BOX ON SE/LY CORNER OF TRANSFORMER PAD
TBM 6032B	16.14		CHISELED BOX ON SE/LY CORNER OF TRANSFORMER PAD
TBM 6032C	12.98		MAG NAIL SET UP 6" IN UP 32A 15 263FP19
TBM 6032D	13.92		MAG NAIL SET UP 6" IN POLE PSNH165 1 118 1/2FP

NOTE: INFORMATION PROVIDED IN TABLES ABOVE IS FOR GENERAL LOCATION ONLY

**NOTES**

- SAWCUT AND REMOVE EX. ABANDONED SEWER MAIN AT THE LIMITS OF EXCAVATION NECESSARY FOR RETAINING WALL RECONSTRUCTION (ITEM 202.42). REVIEW PORTION OF SEWER MAIN TO REMAIN WITH ENGINEER AND INSTALL FLOWABLE FILL INTO REMAINING ABANDONED SEWER PIPE AS DIRECTED (ITEM 202.31).
- TBM PROJECTING PORTION OF EX. CMP LINER AND CONCRETE HEADER. FILL ANY VOIDS BETWEEN LINER AND MASONRY PRIOR TO INSTALLING GEOPOLYMER LINER. CREATE A SMOOTH RADIUS TRANSITION BETWEEN LINER AND VERTICAL MASONRY FACE (SUBSIDIARY TO ITEM 520.99).
- NEW CURBING TO BE INSTALLED AS PART OF RAIL SUPPORT SLAB CONSTRUCTION
- EX. UTILITY POLES WITHIN LIMITS OF CONSTRUCTION WILL REMAIN IN PLACE. RAIL SUPPORT SLAB DESIGN TO ACCOMMODATE FUTURE UNDERGROUND RELOCATION OF EXISTING AERIAL UTILITIES AND REMOVAL OF UTILITY POLES.
- ALL TREE REMOVAL SHALL BE SUBSIDIARY TO ITEM 201.1 - CLEARING AND GRUBBING.



12-19-2023

REV.	DESCRIPTION	DATE
0	ADDRESS IN REVISION COMMENTS	

**HOYLE TANNER**  
 Please International Tradeport  
 100 International Drive, Suite 360  
 Portsmouth, NH 03801  
 (603) 431-2520 www.hoyletanner.com

PORTSMOUTH, NEW HAMPSHIRE  
 MAPLEWOOD AVENUE OVER NORTH MILL POND  
 SITE PLAN

PROJECT NO. 20.005110.00  
 SHEET NO.

8

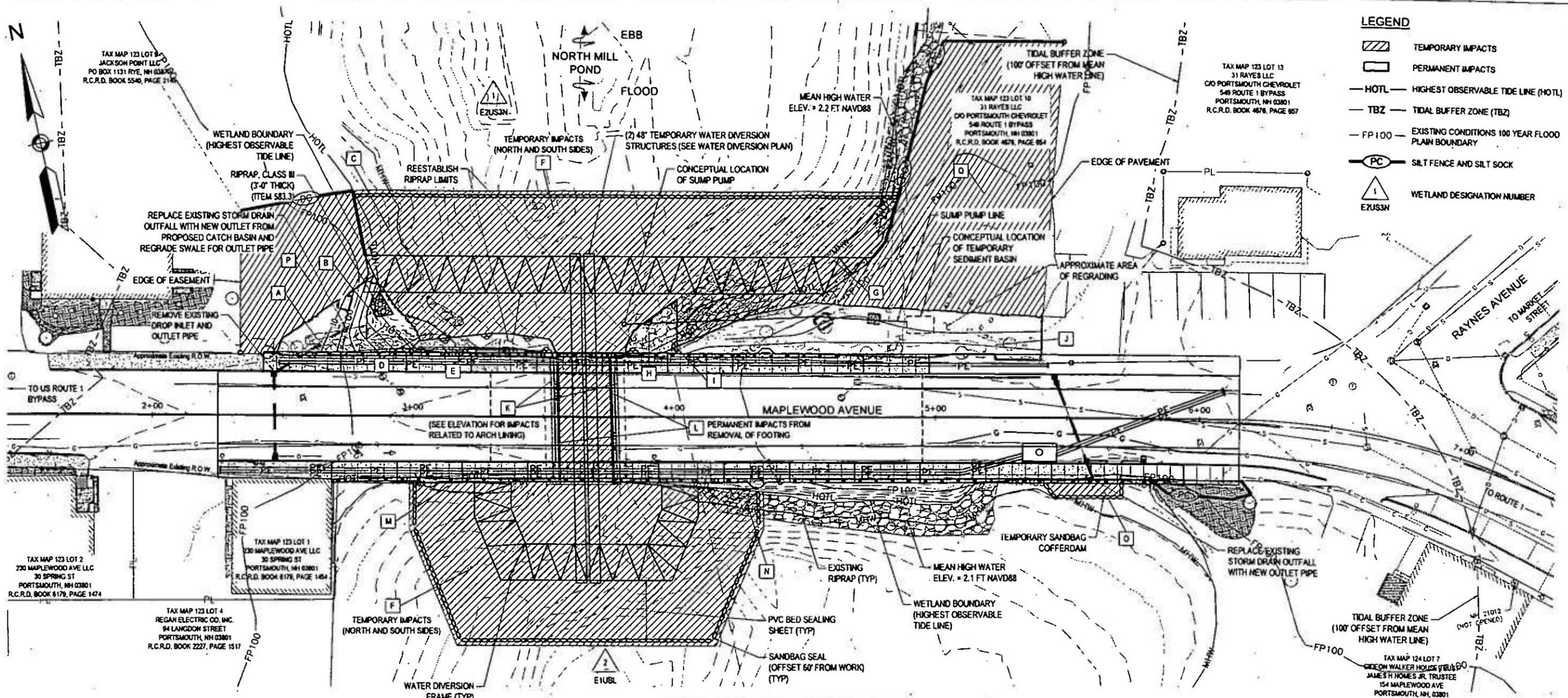
SHEET 8 OF 17



REV	DATE	DESCRIPTION
1	2/2024	HOTL AND PC LIMITS
2	4/2024	TEMPORARY TBZ IMPACTS

HOYLE TANNER  
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 100 International Drive, Suite 350  
 Portsmouth, NH 03801  
 (603) 431-2520 www.foyletanner.com

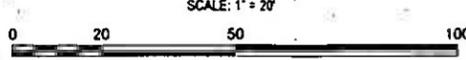
PORTSMOUTH, NEW HAMPSHIRE  
 MAPLEWOOD AVENUE OVER NORTH MILL POND  
 WETLAND IMPACTS PLAN  
 PROJECT NO. 20.905110.00  
 SHEET NO.  
**10**  
 SHEET 10 OF 17



**LEGEND**

- TEMPORARY IMPACTS
- PERMANENT IMPACTS
- HOTL - HIGHEST OBSERVABLE TIDE LINE (HOTL)
- TBZ - TIDAL BUFFER ZONE (TBZ)
- FP100 - EXISTING CONDITIONS 100 YEAR FLOOD PLAIN BOUNDARY
- PC - SILT FENCE AND SILT SOCK
- WETLAND DESIGNATION NUMBER

**WETLAND IMPACTS PLAN**



SYMBOL	IMPACT TYPE	AREA (SF)
A	PERMANENT TBZ	499
B	PERMANENT IMPACT BETWEEN MHW & HOTL	555
C	TEMPORARY IMPACT BETWEEN MHW & HOTL	638
D	TEMPORARY IMPACT BETWEEN MHW & HOTL	68
E	PERMANENT IMPACT BELOW MHW	199
F	TEMPORARY IMPACT BELOW MHW	18,413
G	TEMPORARY IMPACT BETWEEN MHW & HOTL	1,948
H	PERMANENT IMPACT BELOW MHW	218
I	PERMANENT IMPACT BETWEEN MHW & HOTL	37
J	PERMANENT TBZ	2,284
K	PERMANENT IMPACT BETWEEN MHW & HOTL	38
K	PERMANENT IMPACT BELOW MHW	38
L	PERMANENT IMPACT BELOW MHW	206
M	TEMPORARY IMPACT BETWEEN MHW & HOTL	117
N	TEMPORARY IMPACT BETWEEN MHW & HOTL	204
O	TEMPORARY IMPACT BETWEEN MHW & HOTL	179
P	TEMPORARY IMPACT BETWEEN HOTL & TBZ	2,242
Q	TEMPORARY IMPACT BETWEEN HOTL & TBZ	6,163

**SUMMARY OF IMPACTS**

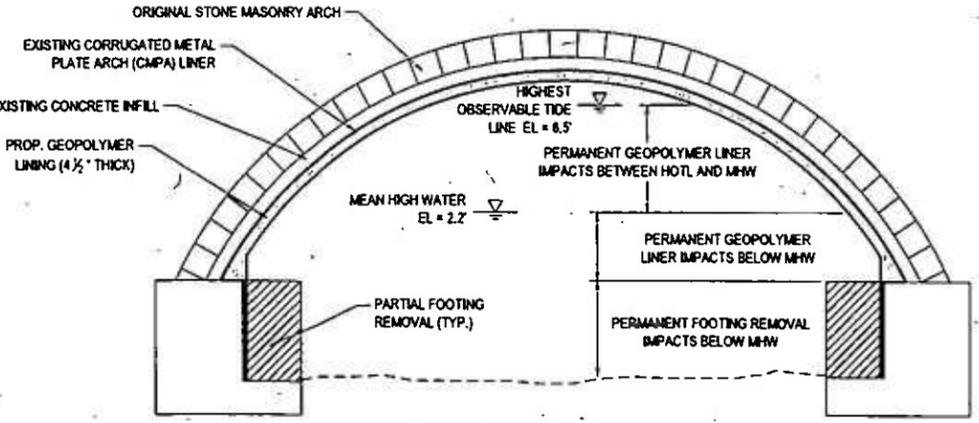
TOTAL NEW TEMPORARY IMPACTS BELOW HOTL = 18,665 SF  
 TOTAL NEW PERMANENT IMPACTS BELOW HOTL = 1,291 SF  
 TOTAL NEW TEMPORARY IMPACTS BELOW MHW = 18,413 SF  
 TOTAL NEW PERMANENT IMPACTS BELOW MHW = 861 SF  
 TOTAL NEW TEMPORARY IMPACTS BETWEEN HOTL & TBZ = 8405 SF  
 TOTAL NEW TBZ PERMANENT IMPACTS = 2,763 SF

TOTAL NHDES IMPACTS = 31,124 SF  
 TOTAL USAGE IMPACTS = 17,074 SF

**WETLAND CLASSIFICATION**

1 EZUS3N	ESTUARINE, INTERTIDAL, UNCONSOLIDATED SHORE, MUD, REGULARLY FLOODED
2 E1UBL	ESTUARINE, SUBTIDAL, UNCONSOLIDATED BOTTOM, SUBTIDAL

THOMAS E. SOKOLOSKI, CERTIFIED WETLAND SCIENTIST #127 OF TES ENVIRONMENTAL CONSULTANTS, L.L.C. OF BOW, NH, PERFORMED THE WETLAND MAPPING ON FEBRUARY 28, 2020 ACCORDING TO THE STANDARDS OF THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, NORTH-CENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS.



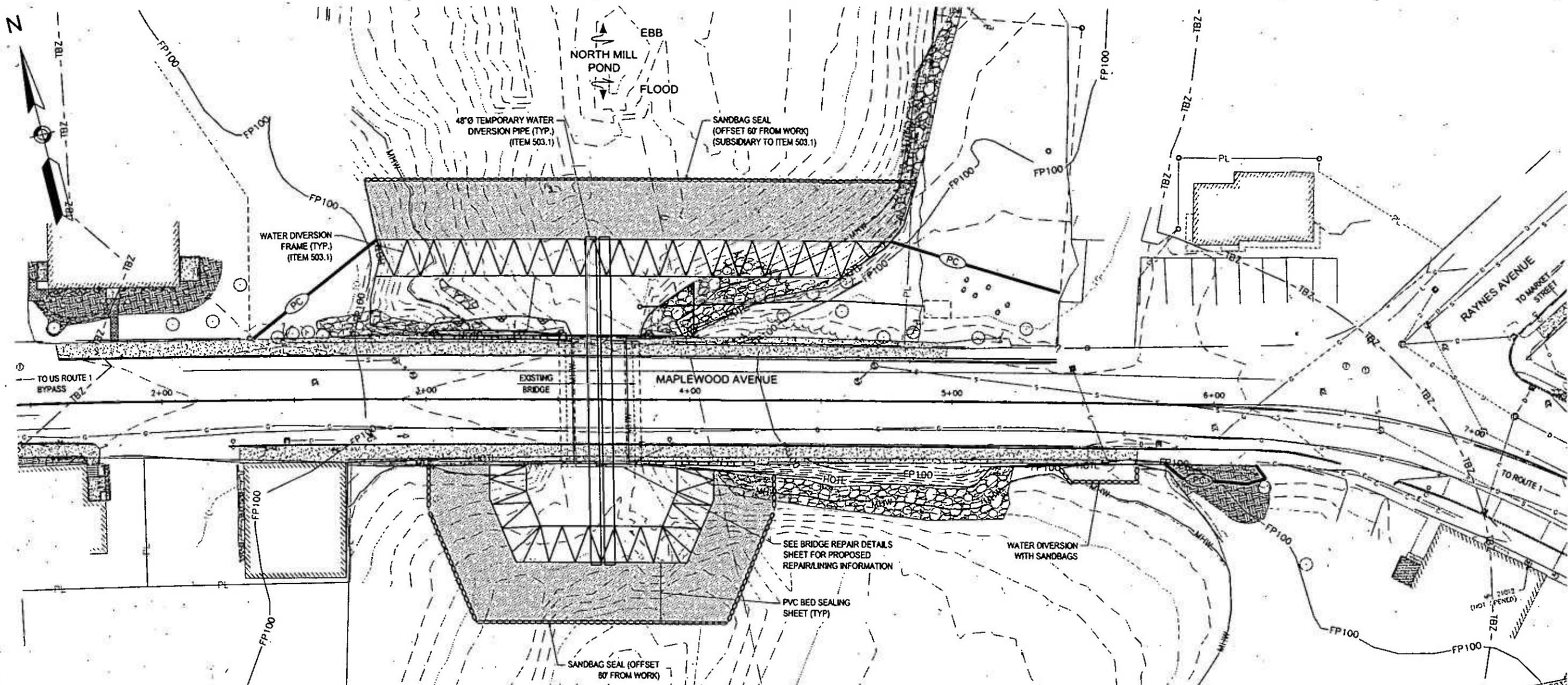
**PROP. LINING SECTION**

SCALE: N.T.S.

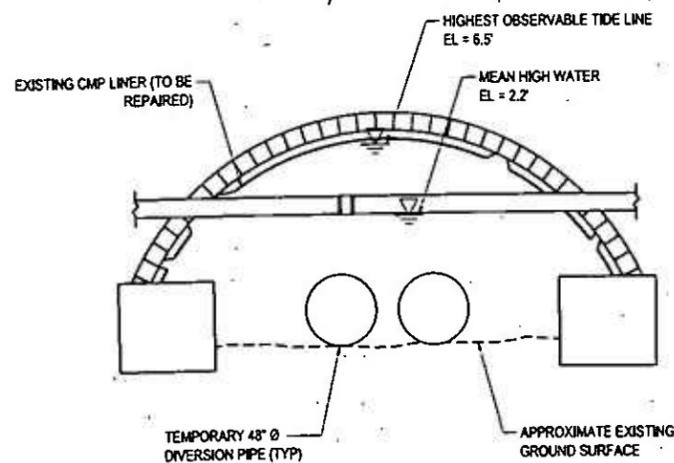
**GENERAL WETLAND IMPACTS NOTES**

- AFTER COMPLETION OF IN-WATER WORK, REMOVE ALL WATER DIVERSION STRUCTURES AND RESTORE ALL DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS.
- EROSION AND SEDIMENT CONTROL SHOWN FOR PLANNING PURPOSES ONLY. CONTRACTOR MEANS AND METHODS MAY ALTER SLIGHTLY BASED ON SITE CONDITIONS.
- CONTRACTOR SHALL RETAIN SEDIMENT ON-SITE AND IMPLEMENT THE FOLLOWING DEWATERING CONTROL PRACTICES:
  - TEMPORARY SEDIMENT BASINS SHALL BE SIZED TO RETAIN ON SITE, THE VOLUME OF A 2-YEAR 24-HOUR STORM EVENT FOR ANY AREA OF DISTURBANCE OR 3,600 CUBIC FEET OF STORMWATER RUNOFF PER ACRE OF DISTURBANCE, WHICHEVER IS GREATER.
  - CONSTRUCT AND STABILIZE DEWATERING INFILTRATION BASINS OR BAGS PRIOR TO ANY EXCAVATION THAT MAY REQUIRE DEWATERING.
  - TEMPORARY SEDIMENT BASINS SHALL BE PLACED AND STABILIZED AT LOCATIONS WHERE CONCENTRATED FLOWS (CHANNELS AND PIPES) CAN BE DISCHARGED WITHOUT DISTURBING OR UNSTABILIZING THE SURROUNDING ENVIRONMENT.
  - SEDIMENT FROM THE DEWATERING INFILTRATION BASINS OR BAG SHALL BE DISPOSED OF PER NHDES REGULATIONS.
- A MEMORANDUM OF UNDERSTANDING (MOU) WILL BE OBTAINED FROM EACH PARCEL OWNER WHERE WORK PROPOSED AS SHOWN EXTENDS BEYOND THE CITY RIGHT-OF-WAY, OR WHERE TEMPORARY CONSTRUCTION ACCESS ON PRIVATE PROPERTY IS NECESSARY.
- OVERHEAD UTILITY LINES NOT SHOWN FOR CLARITY.

4/2024 3:20 PM C:\PROJECTS\2024\20.905110\DWG\20.905110.00\20.905110.00.dwg



**WATER DIVERSION PLAN**



**WATER DIVERSION SECTION**  
SCALE: 1" = 5'

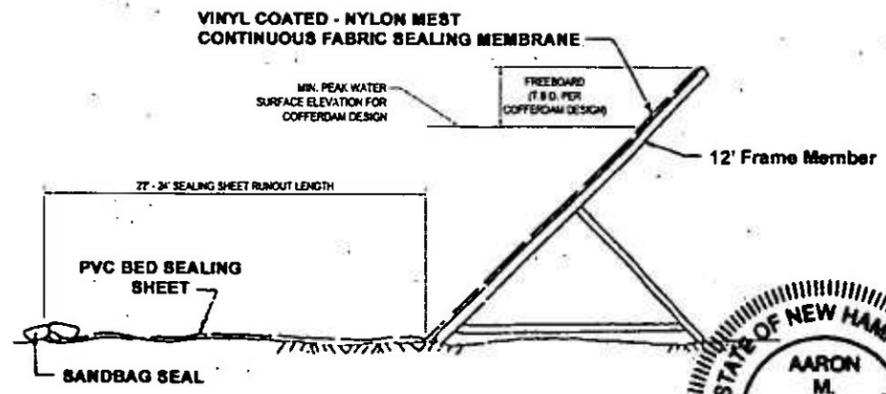
**HYDRAULIC DATA**

1. VALUES INDICATED BELOW ARE WITH THE WATER DIVERSION SYSTEM IN PLACE.

- FLOW CHARACTERISTICS**
- MAX FLOW NORTH TO SOUTH = 285 CFS
  - MAX FLOW SOUTH TO NORTH = 235 CFS
  - MAX VELOCITY THROUGH PIPES = 11.3 FPS

- MINIMUM PEAK WATER SURFACE ELEVATIONS FOR COFFERDAM DESIGN**
- NORTH COFFERDAM = 6.42'
  - SOUTH COFFERDAM = 3.61'

1. WATER DIVERSION STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE, AT A MINIMUM, THE STORM EVENT DISCHARGE FROM HODGDON BROOK COMBINED WITH THE HIGHEST TIDE ELEVATIONS AS DESCRIBED IN THE HYDRAULIC ANALYSES SUMMARY REPORTS INCLUDED IN THE SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING FINAL DESIGN CRITERIA FOR COFFERDAM SYSTEM BASED ON THEIR APPROACH TO CONSTRUCTING THE PROJECT. THE CONTRACTOR'S METHOD OF WATER DIVERSION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK.
2. TEMPORARY WATER DIVERSION SYSTEM SHALL UTILIZE TWIN 48" DIA. PIPES, MINIMUM, OTHER PIPING CONFIGURATIONS THAT PROVIDE AT EQUAL TO OR GREATER HYDRAULIC PERFORMANCE MAY BE USED.



**SEALING MEMBRANE DETAIL**  
CROSS-SECTION  
N.T.S.



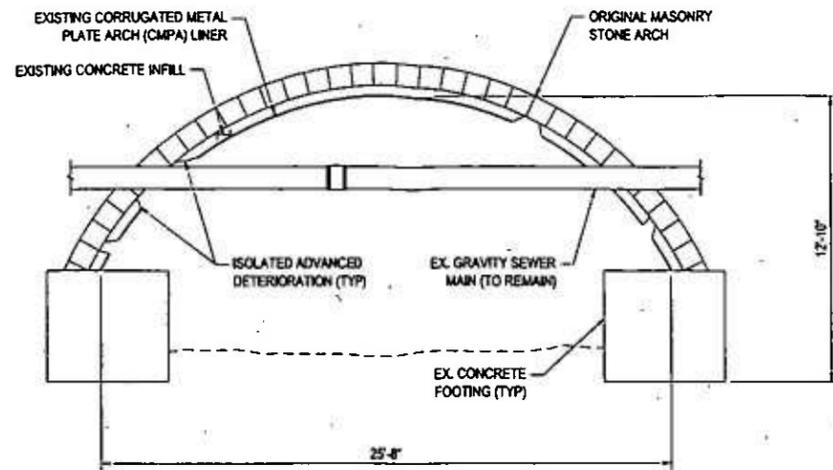
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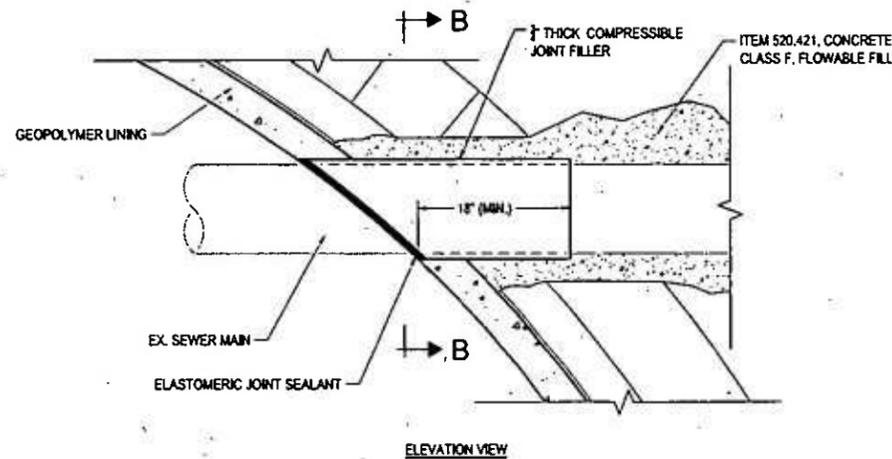
PORTSMOUTH, NEW HAMPSHIRE  
MAPLEWOOD AVENUE OVER NORTH MILL POND  
WATER DIVERSION PLAN

PROJECT NO. 20.905110.00  
SHEET NO.

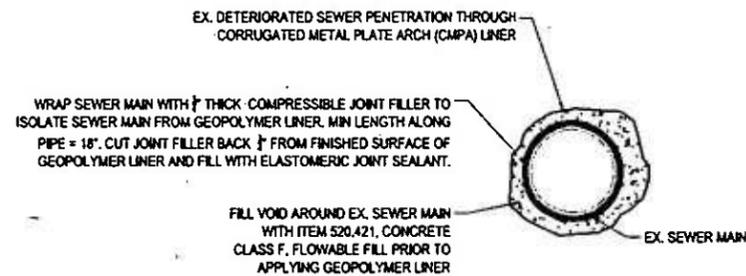
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**EXISTING BRIDGE SECTION**  
SCALE: 1/2" = 1'-0"

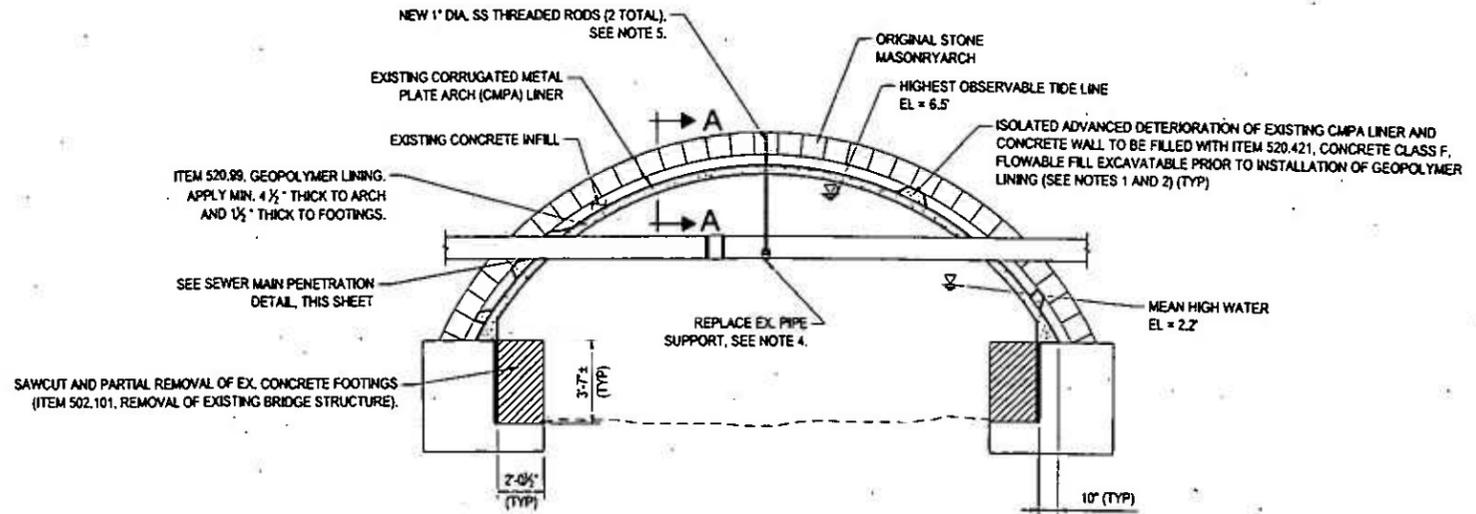


**ELEVATION VIEW**



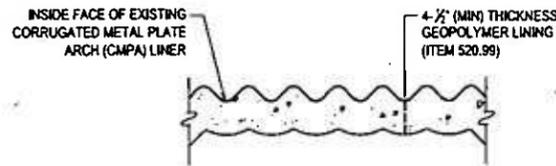
**SECTION B-B**

**SEWER MAIN PENETRATION DETAIL**  
SCALE: 1" = 1'-0"



**NOTES**

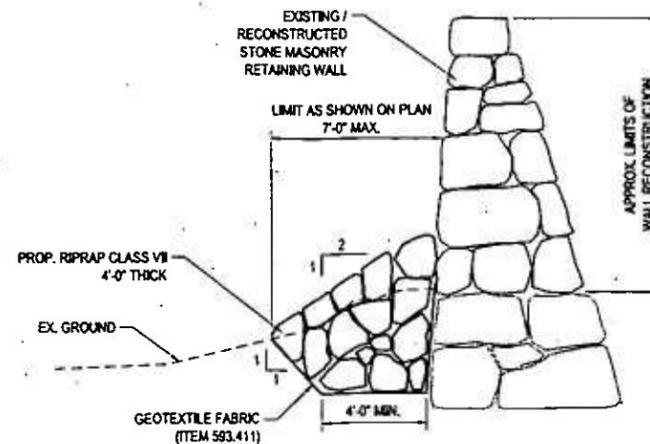
1. AN ALTERNATE MATERIAL MAY BE USED IN LIEU OF CONCRETE CLASS F, FLOWABLE FILL WITH PRIOR APPROVAL FROM THE ENGINEER. THE ALTERNATE MATERIAL WILL BE PAID FOR UNDER ITEM 520.421.
2. THE POTENTIAL PRESENCE AND EXTENTS OF SUBSURFACE VOIDS BEYOND THE IMMEDIATE AREA AROUND THE EX. SEWER MAIN PENETRATIONS ARE UNKNOWN. THEREFORE, TO PREVENT LOSS OF ITEM 520.421 THROUGH THE EXISTING ARCH OR MASONRY RETAINING WALLS, CONTRACTOR SHALL MONITOR PLACEMENT OF MATERIAL AND ADJUST PLACEMENT OPERATIONS BASED ON PERFORMANCE OF INITIAL PLACEMENT. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
3. TEMPORARY REMOVAL OF RIPRAP AND/OR OTHER IN-SITU STREAMBED MATERIAL LOCATED ADJACENT TO THE FOOTINGS MAY BE REQUIRED FOR PARTIAL REMOVAL OF FOOTING CONCRETE. CONTRACTOR TO COORDINATE WITH ENGINEER ON FINAL DISPOSITION OF DISPLACED STREAMBED MATERIAL AFTER CONCRETE REMOVAL WORK IS COMPLETE. EXCAVATION AND REPLACEMENT OF STREAMBED MATERIAL, IF REQUIRED, SHALL BE SUBSIDIARY TO ITEM 502.101.
4. REPLACEMENT PIPE SUPPORT SYSTEM COMPONENTS SHALL BE STAINLESS STEEL. LOWER PIPE HANGER / STRAP SHALL BE 4" WIDE (MIN.) WITH 5,000 LB LOAD CAPACITY (MIN.).
5. 1" DIA. STAINLESS STEEL THREADED RODS SHALL BE INSTALLED INTO EX. STRUCTURE (THROUGH EX. CMPA LINER, CONCRETE INFILL, AND INTO ORIGINAL STONE MASONRY ARCH) PRIOR TO INSTALLATION OF GEOPOLYMER LINER. DRILL AND GROUT RODS WITH HILTI HIT-RE V3 EPOXY ANCHORING ADHESIVE (OR APPROVED EQUAL ANCHORING ADHESIVE SUITABLE FOR SUSTAINED TENSION APPLICATION). CONTRACTOR TO FIELD DETERMINE REQUIRED ROD LENGTHS.



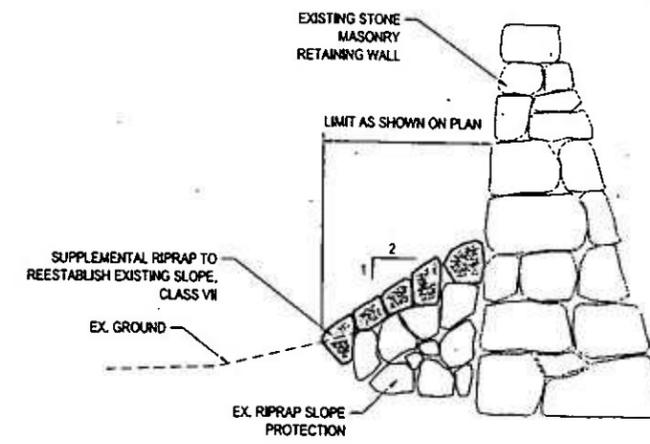
**NOTE**  
1. FULL EXTENT OF DETERIORATION OF CONCRETE INFILL AND EXISTING STONE MASONRY ARCH ARE NOT KNOWN AND ARE NOT SHOWN IN THIS SECTION.

**SECTION A-A**  
SCALE: 1" = 1'-0"

**PROPOSED BRIDGE SECTION**  
SCALE: 1/2" = 1'-0"



**PROP. RIPRAP SECTION**  
SCALE: 1/2" = 1'-0"



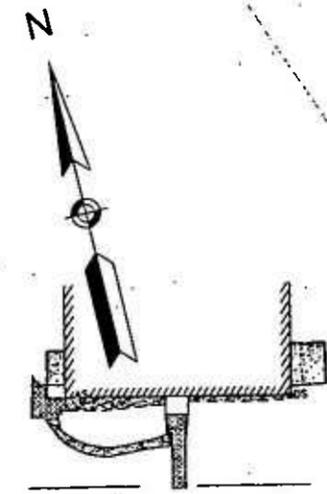
**RIPRAP SLOPE REESTABLISHMENT**  
SCALE: 1/2" = 1'-0"



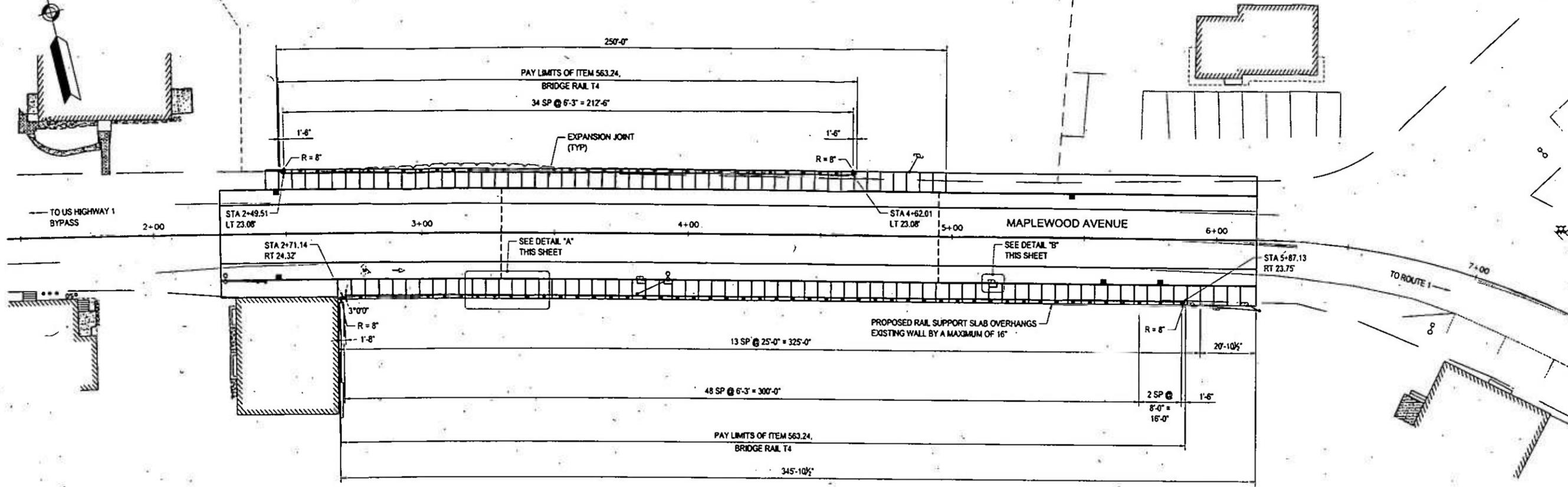
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PORTSMOUTH, NEW HAMPSHIRE  
MAPLEWOOD AVENUE OVER NORTH MILL POND  
BRIDGE REPAIR DETAILS

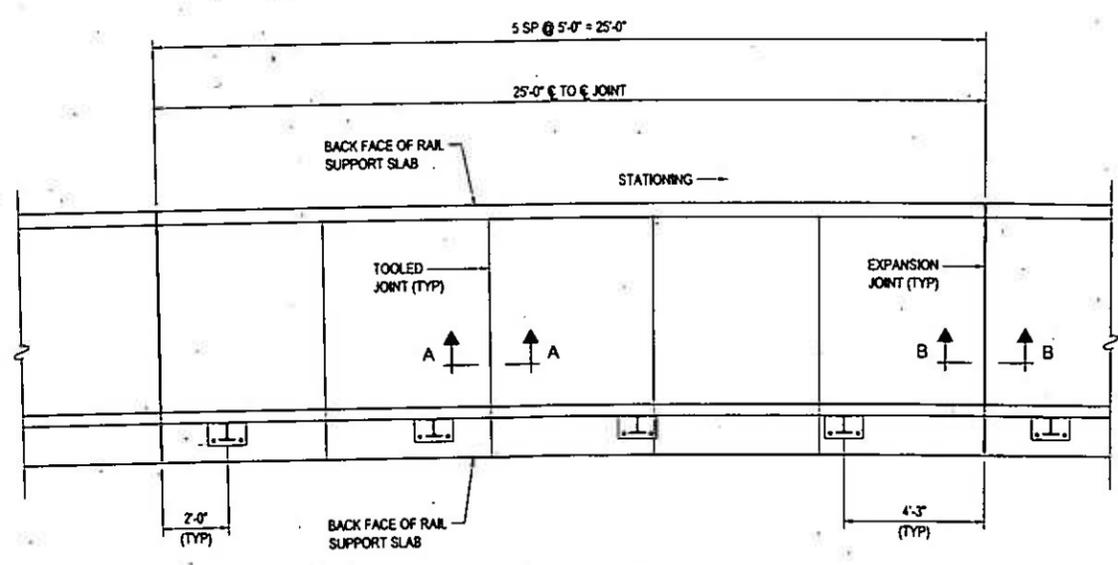
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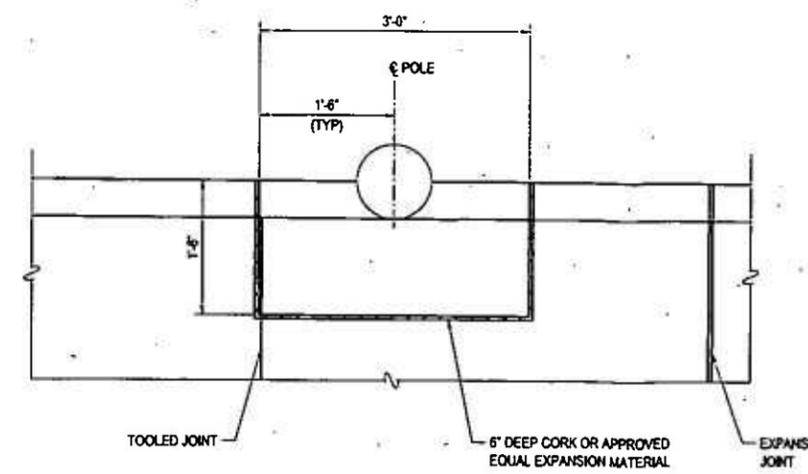
NORTH MILL POND



**RAIL AND SUPPORT SLAB JOINT LAYOUT PLAN**  
SCALE: 1" = 20'



**DETAIL "A"**  
SCALE: 3/8" = 1'-0"



**DETAIL "B"**  
SCALE: 3/8" = 1'-0"



REV.	DESCRIPTION	DATE
0	ADDRESS NOTES REVIEW COMMENTS	12/20/23

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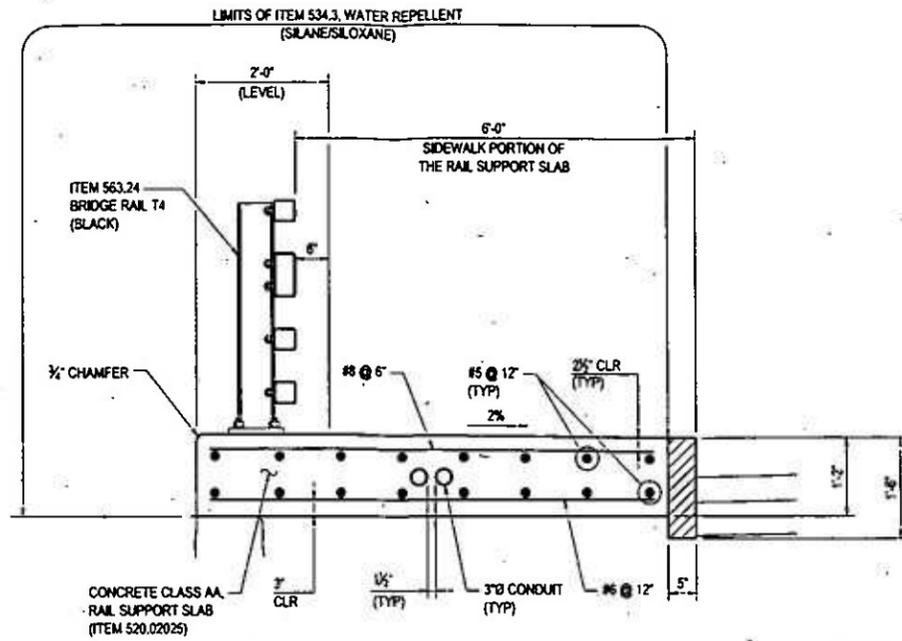
PORTSMOUTH, NEW HAMPSHIRE  
MAPLEWOOD AVENUE OVER NORTH MILL POND  
RAIL AND SUPPORT SLAB JOINT  
LAYOUT PLAN

PROJECT NO. 20.905110.00  
SHEET NO.

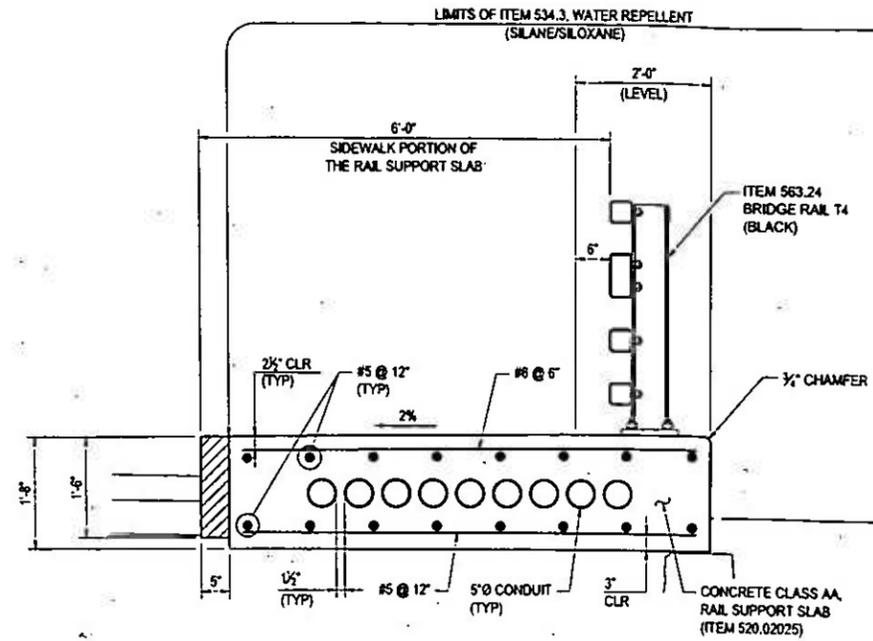
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12-19-2023 SHEET 13 OF 17

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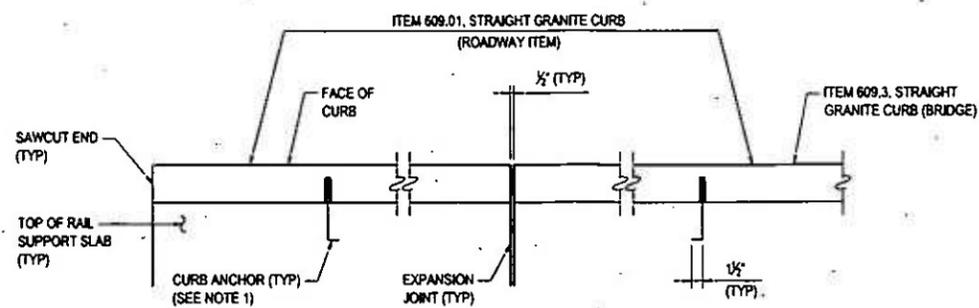


**RAIL SUPPORT SLAB (NORTH)  
TYPICAL SECTION**  
SCALE: 3/4" = 1'-0"



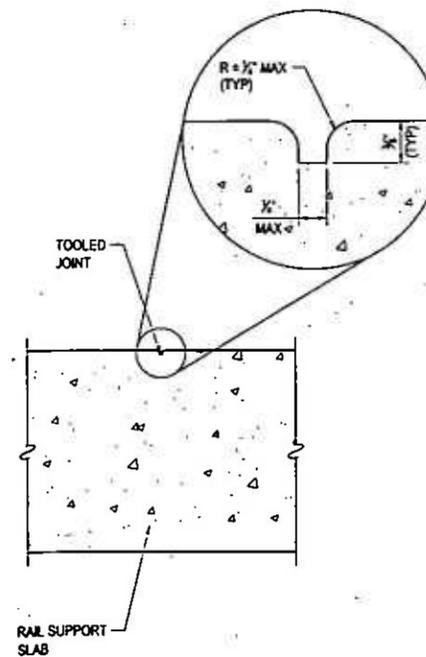
**RAIL SUPPORT SLAB (SOUTH)  
TYPICAL SECTION**  
SCALE: 3/4" = 1'-0"

- NOTES**
- RAIL SUPPORT SLAB IS DESIGNED TO HAVE THE ABILITY TO ADJUST IN THE FIELD IF OBSTRUCTIONS ARE MET THAT PROHIBIT THE CONSTRUCTION OF THE DEPTH SHOWN. MAINTAIN A 1/100" MINIMUM PITCH IN CONDUIT. A 1.5" SPACING BETWEEN ALL CONDUITS AND REINFORCING. 3" SPACING BETWEEN CONDUIT AND ANY VERTICAL BARS FOR RAILING ANCHORAGE. AND CLEAR COVER SPECIFIED ON THE DETAILS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS THAT PREVENT THE INSTALLATION OF THE RAIL SUPPORT SLAB THICKNESS SPECIFIED IN THE DETAILS. ADJUSTMENTS TO REINFORCEMENT SPACING AND QUANTITY MAY BE REQUIRED.

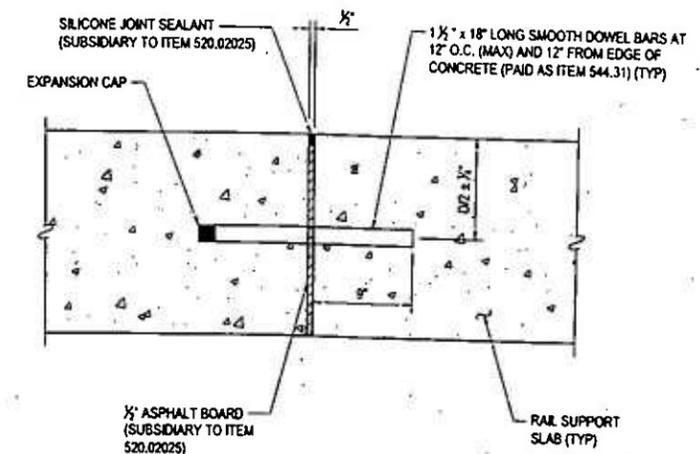


**CURB ANCHOR DETAIL**  
SCALE: 1" = 1'-0"

**NOTE**  
1. CURB ANCHORS SHALL BE 1/2" GALVANIZED RODS, TWO PER STONE, STAGGERED ON ADJACENT STONES AND COUNTERSUNK (COST SHALL BE INCLUDED IN ITEM 609.3).



**SECTION A-A**  
SCALE: 1/2" = 1'-0"



**SECTION B-B**  
SCALE: 1/2" = 1'-0"



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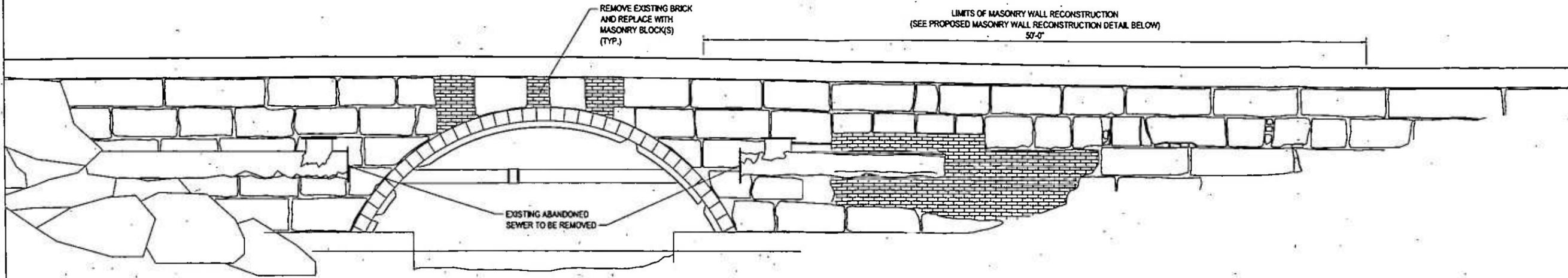
PORTSMOUTH, NEW HAMPSHIRE  
MAPLEWOOD AVENUE OVER NORTH MILL POND  
RAIL SUPPORT SLAB  
CONSTRUCTION DETAILS

PROJECT NO. 20.905110.00  
SHEET NO.

14

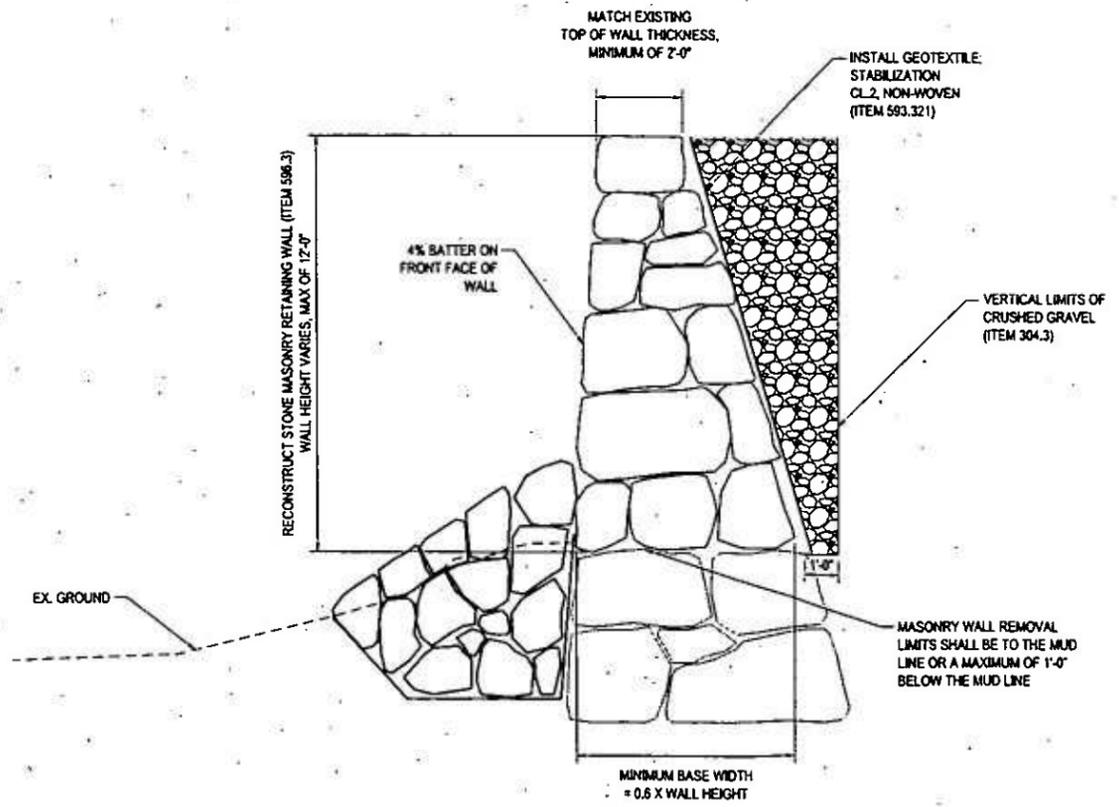
SHEET 14 OF 17

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**MASONRY WALL ELEVATION**

SCALE: 1/4" = 1'-0"



**PROP. MASONRY WALL RECONSTRUCTION DETAIL**

SCALE: 1/4" = 1'-0"

REV.	DESCRIPTION	DATE
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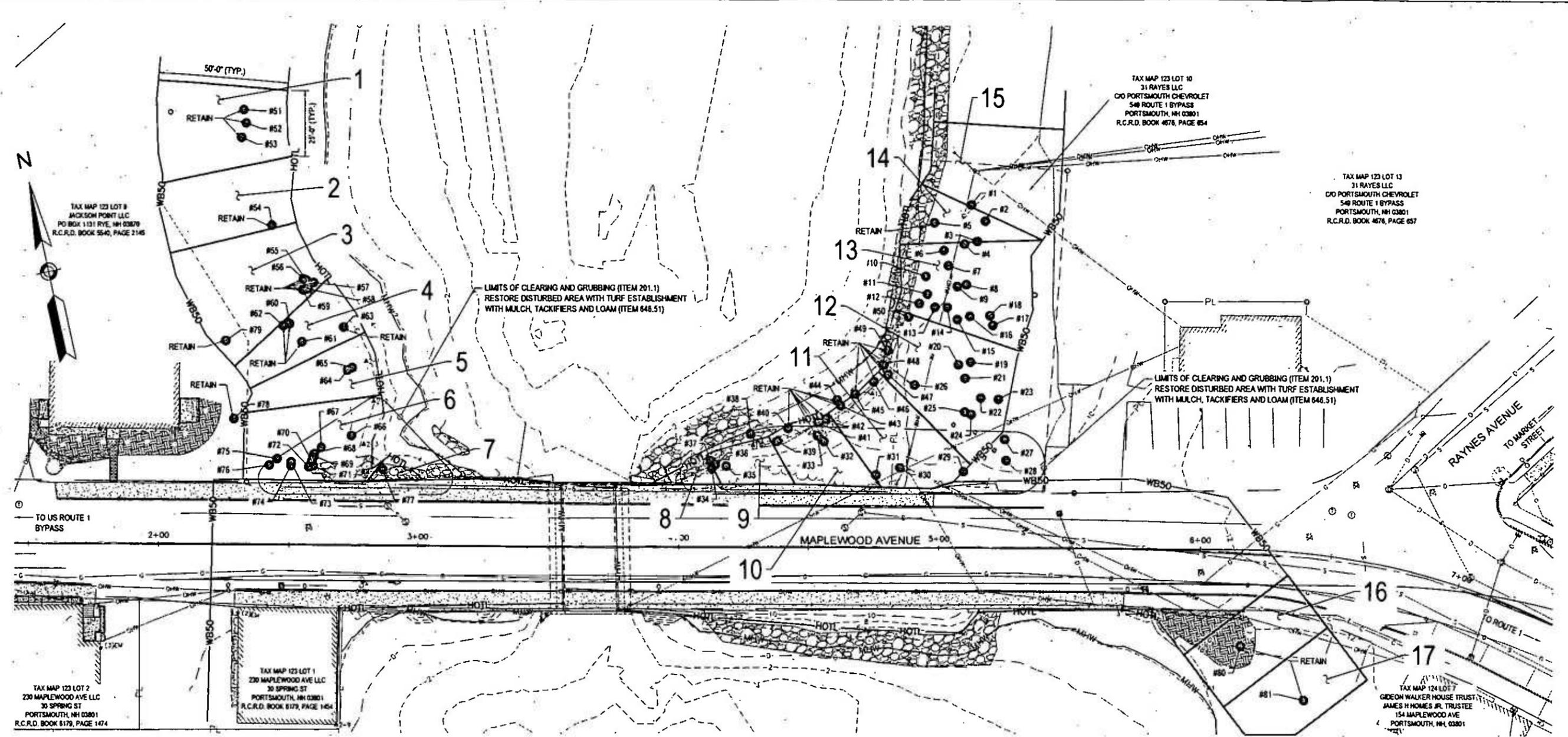
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PORTSMOUTH, NEW HAMPSHIRE  
 MAPLEWOOD AVENUE OVER NORTH MILL POND  
 RETAINING WALL DETAILS



PROJECT NO. 20.905110.00  
 SHEET NO.

15



- NOTES**
1. ALL TREES IDENTIFIED ON THIS PLAN ARE TO BE REMOVED EXCEPT THOSE LABELED 'RETAIN'.
  2. PERMANENT EARTH DISTURBING ACTIVITIES SHALL NOT EXTEND BEYOND THE LIMITS OF CLEARING AND GRUBBING. TREE REMOVAL OUTSIDE OF CLEARING AND GRUBBING AREAS SHALL CONSIST OF CUTTING THE TREES NEARLY FLUSH WITH EXISTING GROUND AND LEAVING THE STUMPS AND ROOT STRUCTURES IN-PLACE AND UNDISTURBED.

**TREE GRID**



TREE DATA						
GRID ID	TREE ID	SPECIES	DBH	CURRENT SCORE	REMOVE	PROPOSED SCORE
15	1	STAGHORN SUMAC	2.05	1	YES	0
14	2	STAGHORN SUMAC	2.50	1	YES	0
14	3	STAGHORN SUMAC	2.45	1	YES	0
13	4	STAGHORN SUMAC	2.45	1	YES	0
14	5	BLACK LOCUST	14.35	15	NO	15
13	6	STAGHORN SUMAC	2.30	1	YES	0
13	7	STAGHORN SUMAC	2.45	1	YES	0
13	8	STAGHORN SUMAC	3.05	5	YES	0
13	9	STAGHORN SUMAC	3.50	5	YES	0
13	10	STAGHORN SUMAC	2.20	1	YES	0
13	11	STAGHORN SUMAC	2.80	1	YES	0
13	12	STAGHORN SUMAC	2.20	1	YES	0
13	13	STAGHORN SUMAC	2.80	1	YES	0
13	14	BLACK LOCUST	3.30	5	YES	0
13	15	STAGHORN SUMAC	4.25	5	YES	0
13	16	STAGHORN SUMAC	2.75	1	YES	0
13	17	STAGHORN SUMAC	2.35	1	YES	0
13	18	STAGHORN SUMAC	2.35	1	YES	0
12	19	STAGHORN SUMAC	2.40	1	YES	0
12	20	STAGHORN SUMAC	2.70	1	YES	0

TREE DATA						
GRID ID	TREE ID	SPECIES	DBH	CURRENT SCORE	REMOVE	PROPOSED SCORE
12	21	BLACK LOCUST	4.80	5	YES	0
12	22	BLACK LOCUST	4.50	5	YES	0
12	23	BLACK LOCUST	3.30	5	YES	0
12	24	BLACK LOCUST	3.20	5	YES	0
12	25	BLACK LOCUST	6.20	10	YES	0
12	26	BLACK LOCUST	12.55	15	NO	15
N/A	27	BLACK LOCUST	11.60	10	YES	0
N/A	28	BLACK LOCUST	6.80	10	YES	0
N/A	29	BLACK LOCUST	9.00	10	YES	0
11	30	BLACK LOCUST	12.20	15	YES	0
11	31	BOXELDER	12.20	15	YES	0
10	32	BLACK LOCUST	10.60	10	NO	10
10	33	BLACK LOCUST	4.00	5	NO	5
8	34	BLACK LOCUST	4.20	5	YES	0
9	35	BOXELDER	2.70	1	YES	0
9	36	BLACK LOCUST	4.45	5	YES	0
9	37	BOXELDER	4.60	5	YES	0
N/A	38	CHOKE CHERRY	4.60	5	YES	0
10	39	BOXELDER	2.10	1	YES	0
10	40	BOXELDER	8.30	10	NO	10

TREE DATA						
GRID ID	TREE ID	SPECIES	DBH	CURRENT SCORE	REMOVE	PROPOSED SCORE
10	41	BOXELDER	3.75	5	NO	5
10	42	BOXELDER	9.30	10	NO	10
11	43	BOXELDER	2.55	1	NO	1
N/A	44	BOXELDER	5.85	5	NO	5
N/A	45	BLACK LOCUST	24.15	15	NO	15
11	46	BOXELDER	9.25	10	NO	10
12	47	BOXELDER	6.00	10	NO	10
12	48	BOXELDER	4.80	5	NO	5
12	49	BOXELDER	3.45	5	NO	5
12	50	STAGHORN SUMAC	3.40	5	YES	0
1	51	BOXELDER	6.50	10	NO	10
1	52	BLACK LOCUST	3.85	5	NO	5
1	53	CHOKE CHERRY	2.80	1	NO	1
2	54	BOXELDER	2.30	1	NO	1
3	55	BOXELDER	4.90	5	NO	5
3	56	BOXELDER	5.50	5	NO	5
3	57	CHOKE CHERRY	2.50	1	NO	1
3	58	BOXELDER	3.85	5	NO	5
3	59	BOXELDER	3.25	5	NO	5
4	60	STAGHORN SUMAC	3.00	5	NO	5

TREE DATA						
GRID ID	TREE ID	SPECIES	DBH	CURRENT SCORE	REMOVE	PROPOSED SCORE
4	61	CHOKE CHERRY	6.35	10	NO	10
4	62	CHOKE CHERRY	2.80	1	NO	1
4	63	BOXELDER	3.30	5	NO	5
5	64	BOXELDER	4.20	5	YES	0
5	65	BOXELDER	4.45	5	YES	0
6	66	BOXELDER	3.85	5	YES	0
6	67	STAGHORN SUMAC	3.95	5	YES	0
6	68	STAGHORN SUMAC	3.00	5	YES	0
6	69	BOXELDER	4.00	5	YES	0
6	70	BOXELDER	4.45	5	YES	0
6	71	BOXELDER	2.60	10	YES	0
6	72	BOXELDER	5.60	5	YES	0
6	73	BOXELDER	8.60	10	YES	0
6	74	BOXELDER	7.60	10	YES	0
6	75	BOXELDER	8.25	10	YES	0
6	76	BOXELDER	8.60	10	YES	0
7	77	BOXELDER	3.10	5	YES	0
N/A	78	BOXELDER	9.40	10	NO	10
3	79	PITCH PINE	14.40	15	NO	15
16	80	BOXELDER	11.00	10	NO	10
17	81	WEeping WILLOW	25.00	15	NO	15

REV.	DESCRIPTION	DATE
1	TREE GRID LAYOUT	3/2024
2	TREE RETENTION ZONE 4	4/2024

WOOD BRIDGE NO. 2317103  
 DESIGNED: RPM  
 DRAWN: WCT/AG  
 CHECKED: AML  
 SCALE: AS SHOWN  
 DATE: JANUARY 2024

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PORTSMOUTH, NEW HAMPSHIRE  
 MAPLEWOOD AVENUE OVER NORTH MILL POND  
 SHORELAND GRID SCORE FIGURE

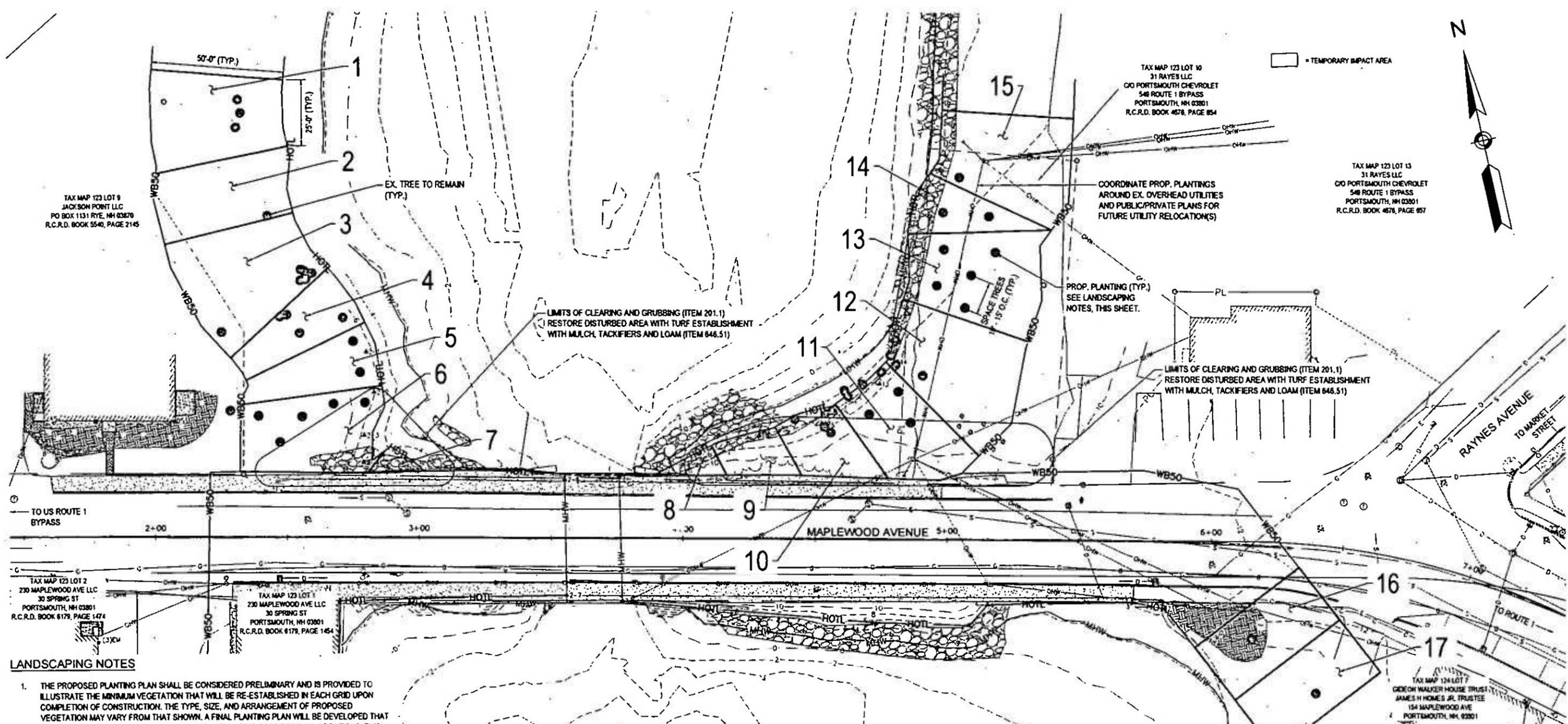
PROJECT NO. 20.005110.00  
 FIGURE NO.



REV.	DESCRIPTION	DATE
1	DBH CLARIFICATIONS	APRIL 2024

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PORTSMOUTH, NEW HAMPSHIRE  
MAPLEWOOD AVENUE OVER NORTH MILL POND  
PROPOSED REVEGETATION PLAN  
PROJECT NO. 20.905110.00  
FIGURE NO.  
**1**  
SHEET 1 OF 1



TAX MAP 123 LOT 9  
JACKSON POINT LLC  
PO BOX 1131 RYE, NH 03870  
R.C.R.D. BOOK 5540, PAGE 2145

TAX MAP 123 LOT 10  
31 RAYES LLC  
C/O PORTSMOUTH CHEVROLET  
548 ROUTE 1 BYPASS  
PORTSMOUTH, NH 03801  
R.C.R.D. BOOK 4678, PAGE 854

TAX MAP 123 LOT 13  
31 RAYES LLC  
C/O PORTSMOUTH CHEVROLET  
548 ROUTE 1 BYPASS  
PORTSMOUTH, NH 03801  
R.C.R.D. BOOK 4678, PAGE 857

TAX MAP 123 LOT 2  
230 MAPLEWOOD AVE LLC  
30 SPRING ST  
PORTSMOUTH, NH 03801  
R.C.R.D. BOOK 6179, PAGE 1474

TAX MAP 123 LOT 11  
230 MAPLEWOOD AVE LLC  
30 SPRING ST  
PORTSMOUTH, NH 03801  
R.C.R.D. BOOK 6179, PAGE 1464

TAX MAP 124 LOT 7  
GEOFF WALKER HOUSE TRUST  
JAMES H HOMES JR. TRUSTEE  
124 MAPLEWOOD AVE  
PORTSMOUTH, NH 03801

**LANDSCAPING NOTES**

1. THE PROPOSED PLANTING PLAN SHALL BE CONSIDERED PRELIMINARY AND IS PROVIDED TO ILLUSTRATE THE MINIMUM VEGETATION THAT WILL BE RE-ESTABLISHED IN EACH GRID UPON COMPLETION OF CONSTRUCTION. THE TYPE, SIZE, AND ARRANGEMENT OF PROPOSED VEGETATION MAY VARY FROM THAT SHOWN. A FINAL PLANTING PLAN WILL BE DEVELOPED THAT PROVIDES EQUAL OR GREATER POST-CONSTRUCTION GRID SCORE FOR ALL LOCATIONS. THIS PLAN WILL BE SUBMITTED TO NHDES FOR REVIEW AND APPROVAL PRIOR TO PLANTING.
2. PROPOSED VEGETATION WILL BE PLANTED IN THE SPRING FOLLOWING COMPLETION OF CONSTRUCTION TO MAXIMIZE GROWING SEASON AND MINIMIZE PLANT MORTALITY. DISTURBED AREAS TO BE REVEGETATED SHALL BE STABILIZED WITH MULCH, SEED AND TACKIFIERS UPON COMPLETION OF CONSTRUCTION TO PREVENT EROSION PRIOR TO SPRING REPLANTING.
3. THE FOLLOWING TREE SPECIES ARE ACCEPTABLE FOR REVEGETATION:
 

COMMON NAME	SCIENTIFIC NAME	SIZE	DBH	SPACING
BLACK LOCUST	ROBINIA PSEUDOACACIA	VARIABLE	3" MIN.	AS NOTED
BLACK WILLOW	SALIX NIGRA	VARIABLE	3" MIN.	AS NOTED
BOX ELDER	ACER NEGUNDO	VARIABLE	3" MIN.	AS NOTED
NORTHERN RED OAK	QUERCUS RUBRA	VARIABLE	3" MIN.	AS NOTED

SUMMARY OF EXISTING / PROPOSED PLANTINGS					
GRID	CURRENT	PROP. AFTER REMOVAL	CHANGE	PROP. PLANTINGS	PROP. SCORE WITH PLANTINGS
1	16	16	0		
2	1	1	0		
3	38	38	0		
4	21	21	0		
5	10	0	-10	2 TREES	10
6	80	0	-80	5 TREES	25
7	5	0	-5		
8	1	0	-1		
9	11	0	-11		
10	41	48	7		
11	41	11	-30	3 TREES	28
12	72	35	-37		
13	30	0	-30	5 TREES	25
14	17	15	-2	1 TREE	20
15	10	10	0		
16	15	15	0		

\* GRIDS 7, 8 AND 9 WILL NOT HAVE ENOUGH AREA OUTSIDE OF RIPRAP FOR PLANTINGS

**PROPOSED REVEGETATION PLAN**

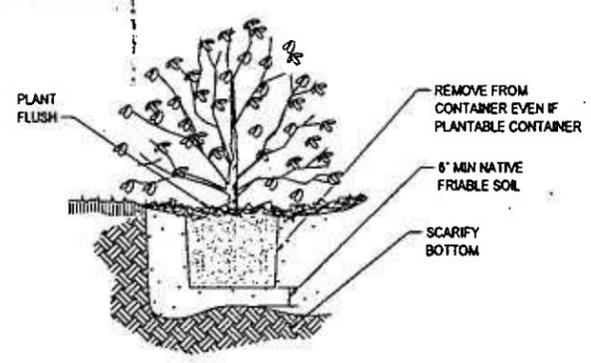
2. EFFORT SHALL BE MADE TO USE NATIVE GROWN OR LOCALLY-SOURCED SPECIES WHERE AVAILABLE.
3. PROPOSED PLANTINGS SHALL BE ARRANGED AS SCHEMATICALLY DEPICTED ON THIS PLAN AND SPACED APPROXIMATELY 10 TO 15 FEET ON CENTER. IN NO CASE SHALL TREES BE SPACED CLOSER THAN 5 FEET ON CENTER, OR 5 FEET APART.
4. NATIVE EXCAVATE FROM BANK AREAS, IF AVAILABLE, SHALL BE STOCKPILED AND RE-USED WHERE FEASIBLE IN PLANTING SITE PREPARATION TO AID IN GROWTH OF NATIVE VEGETATION.
5. ONCE THE TREE PLANTING IS COMPLETE, AREAS OF GROUND DISTURBANCE WITHIN THE UNDERSTORY SHALL BE RESTORED WITH ITEM 648.51 - TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND LOAM (INCLUDING SEED) AS NECESSARY.
6. ALL TREE PLANTING WORK SHALL BE PAID UNDER ITEM 650.203, LANDSCAPING.
7. GRIDS WILL BE ASSESSED FOR PRESENCE OF GROUND COVER AND SHRUBS PRIOR TO CONSTRUCTION. TEMPORARY IMPACT AREAS WILL BE RESTORED IN KIND UPON CONSTRUCTION COMPLETION.

**MONITORING NOTES**

1. MONITORING OF THE PLANTING AREAS SHALL OCCUR TWICE DURING THE FIRST GROWING SEASON.
2. PER ENV-WT 307.12, TEMPORARY IMPACT AREAS THAT ARE DISTURBED WILL BE PLANTED AS SHOWN AND WILL BE MONITORED TO CONFIRM AT LEAST 75% SUCCESSFUL ESTABLISHMENT OF VEGETATION AFTER 2 GROWING SEASONS AND NUISANCE SPECIES SHALL NOT INVADE AFTER 1 GROWING SEASON.
3. MONITORING REPORTS SHALL BE PREPARED BY THE CITY OF PORTSMOUTH AND SUBMITTED TO NHDES ANNUALLY.

**SITE PREPARATION NOTES**

1. LOCATE STAGING AREAS OUTSIDE OF WORK AREAS TO THE EXTENT FEASIBLE.
2. PLANTING SHOULD BE DONE DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED PRACTICES. PLANTS SHALL NOT BE INSTALLED IN FROZEN OR HIGH FLOW CONDITIONS.
3. PLANTS SHALL NOT REMAIN ON-SITE AND UNPLANTED FOR LONGER THAN A THREE-DAY PERIOD AFTER DELIVERY.
4. GRADE SITE FOR PLANTINGS AS NEEDED.
5. PLACE PERMEABLE FABRIC LAYER OR NON-PLASTIC EROSION CONTROL MATTING, AS NEEDED, TO STABILIZE SLOPE DURING WORK (SUBSIDIARY TO PLANTINGS).
6. MINIMIZE TRAVEL ACROSS, AND SUBSEQUENT COMPACTION OF, SOILS.
7. IN AREAS WHERE TURF REESTABLISHMENT IS NECESSARY, APPLY ITEM 648.51 - TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND LOAM.
8. WATER BY FLOODING TWICE IN FIRST TWO HOURS AFTER PLANTING.
9. RAISE AND REPLANT ANY PLANTS THAT SETTLE MORE THAN 3" AFTER PLANTING AND WATERING.



**CONTAINER GROWN PLANT DETAIL**