



AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS
200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

1 March 2022

Wetland Inspector
New Hampshire Department of Environmental Services
Wetlands Bureau
29 Hazen Drive / P.O. Box 95
Concord, New Hampshire 03302

**Re: NHDES Minor Impact Wetland Permit Application
Tax Map 122 Lot 2
Northwest Street
Portsmouth, New Hampshire**

Dear Wetland Inspector:

This letter transmits a New Hampshire Department of Environmental Services (NHDES) Minor Impact Expedited Wetland Permit Application request to permit 3,912 sq. ft. of temporary impact and 978 sq. ft. of permanent impact to the previously developed 100' Tidal Buffer Zone for residential development including construction of a new home, driveway, a patio, utility connections, grading and associated landscaping. The project also proposes the removal of an existing gravel drive and improvements associated with an existing sewer pump station and 45 sq. ft. of impact to saltmarsh for the addition of rip rap outlet protection for an existing stormwater outfall associated with drainage structures located within Northwest Street. This existing outfall has created scouring and erosion at the point of discharge and the rip rap outlet protection will greatly reduce the potential for erosion and sedimentation in the future.

Attached to this application you will find a "NH DES Permit Plan-C5" which depicts the existing lot, jurisdictional areas, abutting parcels, existing structures, proposed work, temporary and permanent impact areas.

Per Env-Wt 306.05, Certified Wetland Scientist Steve Riker from Ambit Engineering, Inc. classified all jurisdictional areas and identified the predominant functions of all relevant resources. The Highest Observable Tide Line marks the reference line for the 100' TBZ, as well as the beginning of Tidal Wetland on the attached plan set. Attached to this application is a Coastal Functional Assessment as this project is subject to the requirements of Env-Wt 603.05.

The project does not require the removal of any trees or shrubs within the 50' Waterfront Buffer to achieve construction goals, but does propose the removal of an existing gravel drive partially located in the 50' Waterfront Buffer which will be planted with buffer plantings (see Subdivision Site Plan-Sheet C2).

The project represents the alternative with the least adverse impacts to areas and environments while allowing reasonable use of the property.

Per Env-Wt 603.02(b), attached to this application you will find a plan set which depicts the existing lot, jurisdictional areas, all natural resources in the area, abutting parcels, existing structures, proposed

structures, and temporary impact areas. Also included in this application are maps created in accordance with Env-Wt 603.03 and Env-Wt 603.05.

In order to complete the application package for this project, the DES Wetlands Bureau rules in Chapter Env-Wt 306.05 (a)(2) has been evaluated and addressed below.

(2) a. Contains any documented occurrences of protected species or habitat for such species, using the NHB DataCheck tool;

Attached to this application are the results of the NHB review and it was determined that although there was a NHB record present in the vicinity, it is not expected to be impacted by the proposed project.

(2) b. Is a bog;

Utilizing the NH DES WPPT, the subject property is not a bog, nor does it contain any portion of a bog.

(2) c. Is a floodplain wetland contiguous to a tier 3 or higher watercourse;

Utilizing the NH DES WPPT, the subject property does contain a floodplain wetland contiguous to a tier 3 or higher watercourse.

(2) d. Does the property contain a designated prime wetlands or a duly established 100-foot buffer; or

The property does not contain a prime wetland or duly established 100 foot buffer.

(2) e. Does the property contain a sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone;

The property does not contain a sand dune or undeveloped tidal buffer zone. The project area does contain a tidal wetland and tidal waters.

The DES Wetlands Bureau rules in Chapter Env-Wt 306.05 (a)(4) and (a)(7) has been evaluated and addressed below.

(4) a. Is the subject property within LAC jurisdiction;

The property does not fall within an area of LAC jurisdiction.

(4) b. Does the subject property fall within or contain any areas that are subject to time of year restrictions under Env-Wt 307;

The property does not fall within or contain any areas that are subject to time of year restrictions.

(7) Does the project have potential to impact impaired waters, class A waters, or outstanding resource waters;

I do not believe the nature of the proposed project has the potential to impact an impaired water. The project does propose buffer area plantings that will serve to improve stormwater quality that leaves the site.

The DES Wetlands Bureau rules in Chapter Env-Wt 603.02 (e) & (f) have been evaluated and addressed below.

(e)(1) The project meets the standard conditions in Env-Wt 307;

The project meets the standard conditions in Env-Wt 307 as the proposed project meets the standards of Env-Wq 1000, RSA 483-B and Env-Wq 1400. Sediment and erosion controls will also be used and maintained during the proposed construction ensuring protection of water quality on the site. Under Env-Wt 306.05 (a)(2)a. a NHB review has been performed to ensure

there are no impacts to protected species or habitats of such species. The protection of Prime Wetlands or Duly-Established 100 foot buffers does not apply as none exist on or adjacent to the subject lot.

- (e)(2) The project meets the approval criteria in Env-Wt 313.01;
The project meets the approval criteria in Env-Wt 313.01 as the project requires a functional assessment (attached), meets the avoidance and minimization requirements specified in Env-Wt 313.03, does not require compensatory mitigation, meets applicable conditions specified in Env-Wt 307 (above), meets project specific criteria listed in Env-Wt 600 (above), and the project is located entirely within the boundary of the applicants property.
- (f)(1) The project design narrative as described in Env-Wt 603.06;
The project design narrative is provided above.
- (f)(2) Design plans that meet the requirements of Env-Wt 603.07;
The design plans meet the above standard.
- (f)(3) The water depth supporting information required by Env-Wt 603.08;
The design plans do not provide water depth information as it is non-applicable to the proposed project.
- (f)(4) A statement regarding impact on navigation and passage required by Env-Wt 603.09.
Navigation and passage is not applicable to the proposed project.

Please contact me if you have any questions or concerns regarding this application.

Respectfully submitted,



Steven D. Riker, CWS
NH Certified Wetland Scientist/Permitting Specialist
Ambit Engineering, Inc.

17 February, 2022

To Whom It May Concern

RE: New Hampshire Department of Environmental Services Applications for residential site re-development for Darrell Moreau, TBD Northwest Street, Portsmouth, NH.

This letter is to inform the New Hampshire Department of Environmental Services, in accordance with State Law that Ambit Engineering is authorized to obtain approvals in regards to the above referenced property.

Please feel free to call me if there is any question regarding this authorization.

Sincerely,

A handwritten signature in black ink, appearing to read 'Darrell Moreau', with a long horizontal flourish extending to the right.

Darrell Moreau
1B Jackson Hill Street
Portsmouth, NH 03801
603-512-5116



**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: Darrell Moreau

TOWN NAME: Portsmouth

Administrative Use Only	Administrative Use Only	Administrative Use Only	File No.:
			Check No.:
			Amount:
			Initials:

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?	<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"> • 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. 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> • Protected species or habitat? <ul style="list-style-type: none"> ○ If yes, species or habitat name(s): Unknown ○ NHB Project ID #: 22-3316 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
• Bog?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
• Floodplain wetland contiguous to a tier 3 or higher watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
• Designated prime wetland or duly-established 100-foot buffer?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
• Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	<input type="checkbox"/> Yes <input checked="" 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"> • Name of Local River Management Advisory Committee (LAC): <input type="text"/> • A copy of the application was sent to the LAC on Month: <input type="text"/> Day: <input type="text"/> Year: <input type="text"/> 	

irm@des.nh.gov or (603) 271-2147

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For dredging projects, is the subject property contaminated? • If yes, list contaminant: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
For stream crossing projects, provide watershed size (see WPPT or Stream Stats): N/A	
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 project proposes 3,912 sq. ft. of temporary impact and 978 sq. ft. of permanent impact to the previously developed 100' Tidal Buffer Zone for residential development including construction of a new home, driveway, a patio, utility connections, grading and associated landscaping. The project also proposes the removal of an existing gravel drive and improvements associated with an existing sewer pump station and 45 sq. ft. of impact to saltmarsh for the addition of rip rap outlet protection for an existing stormwater outfall associated with drainage structures located within Northwest Street.	
SECTION 3 - PROJECT LOCATION	
Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.	
ADDRESS: Northwest Street	
TOWN/CITY: Portsmouth	
TAX MAP/BLOCK/LOT/UNIT: Map 122, Lot 2-1	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: North Mill Pond <input type="checkbox"/> N/A	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places): 1,224,999.4022° North 213,532.7715° West	

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: Darrell Moreau		
MAILING ADDRESS: 1B Jackson Hill Street		
TOWN/CITY: Portsmouth	STATE: NH	ZIP CODE: 03801
EMAIL ADDRESS: darrellamoreau@gmail.com		
FAX: [REDACTED]	PHONE: 603-512-5116	
ELECTRONIC COMMUNICATION: By initialing here: [REDACTED], I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))		
<input type="checkbox"/> N/A		
LAST NAME, FIRST NAME, M.I.: Riker, Steven, D.		
COMPANY NAME: Ambit Engineering, Inc.		
MAILING ADDRESS: 200 Griffin Road, Unit 3		
TOWN/CITY: Portsmouth	STATE: NH	ZIP CODE: 03801
EMAIL ADDRESS: sdr@ambitengineering.com		
FAX: [REDACTED]	PHONE: 603-430-9282	
ELECTRONIC COMMUNICATION: By initialing here <i>SR</i> , 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.		
<input type="checkbox"/> Same as applicant		
NAME: Gregory J. & Amanda B. Morneault		
MAILING ADDRESS: 137 Northwest Street		
TOWN/CITY: Portsmouth	STATE: NH	ZIP CODE: 03801
EMAIL ADDRESS: [REDACTED]		
FAX: [REDACTED]	PHONE: [REDACTED]	
ELECTRONIC COMMUNICATION: By initialing here [REDACTED], 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))

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):

Please see attached narrative.

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

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			<input type="checkbox"/>			<input type="checkbox"/>
	Tidal Marsh	45		<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	978		<input type="checkbox"/>	3,912		<input type="checkbox"/>
	Docking - Tidal Water			<input type="checkbox"/>			<input type="checkbox"/>
TOTAL		1,023			3,912		

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): 4,935 SF × \$0.40 = \$ 1,974

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 = \$ 1,974

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





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:  <i>SR</i> 	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials:  <i>SR</i> 	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:  <i>SR</i> 	The signer understands that: <ul style="list-style-type: none"> • The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: <ol style="list-style-type: none"> 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:  <i>SR</i> 	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: 	DATE: 
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER): 	PRINT NAME LEGIBLY: 	DATE: 
SIGNATURE (AGENT, IF APPLICABLE): <i>Steven Riker</i>	PRINT NAME LEGIBLY: Steven D. Riker	DATE: 3/1/22

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

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: 



AVOIDANCE AND MINIMIZATION
WRITTEN NARRATIVE
Water Division/Land Resources Management
Wetlands Bureau
[Check the Status of your Application](#)



RSA/ Rule: RSA 482-A/ Env-Wt 311.04(j); Env-Wt 311.07; Env-Wt 313.01(a)(1)b; Env-Wt 313.01(c)

APPLICANT'S NAME: Darrell Moreau

TOWN NAME: Portsmouth

An applicant for a standard permit shall submit with the permit application a written narrative that explains how all impacts to functions and values of all jurisdictional areas have been avoided and minimized to the maximum extent practicable. This attachment can be used to guide the narrative (attach additional pages if needed). Alternatively, the applicant may attach a completed [Avoidance and Minimization Checklist \(NHDES-W-06-050\)](#) to the permit application.

SECTION 1 - WATER ACCESS STRUCTURES (Env-Wt 311.07(b)(1))

Is the primary purpose of the proposed project to construct a water access structure?

No

SECTION 2 - BUILDABLE LOT (Env-Wt 311.07(b)(1))

Does the proposed project require access through wetlands to reach a buildable lot or portion thereof?

No.

SECTION 3 - AVAILABLE PROPERTY (Env-Wt 311.07(b)(2))*

For any project that proposes permanent impacts of more than one acre, or that proposes permanent impacts to a PRA, or both, are any other properties reasonably available to the applicant, whether already owned or controlled by the applicant or not, that could be used to achieve the project's purpose without altering the functions and values of any jurisdictional area, in particular wetlands, streams, and PRAs?

**Except as provided in any project-specific criteria and except for NH Department of Transportation projects that qualify for a categorical exclusion under the National Environmental Policy Act.*

The project proposes residential development of an existing lot of record. The owner/applicant does not have access to other properties that would serve as an alternative and achieve the same purpose.

SECTION 4 - ALTERNATIVES (Env-Wt 311.07(b)(3))

Could alternative designs or techniques, such as different layouts, different construction sequencing, or alternative technologies be used to avoid impacts to jurisdictional areas or their functions and values as described in the [Wetlands Best Management Practice Techniques For Avoidance and Minimization?](#)

The proposed residential development has been designed and located on the lot to avoid impacts to the previously developed 100' Tidal Buffer Zone to the greatest extent practicable. Due to the configuration of the lot, the location of tidal wetlands associated with the site, and local zoning and dimensional requirements, the building envelope in which a structure could be built is limited. The proposed structure has been placed within this building envelope and completely avoids the placement of structures within the 50' Waterfront Buffer.

SECTION 5 - CONFORMANCE WITH Env-Wt 311.10(c) (Env-Wt 311.07(b)(4))**

How does the project conform to Env-Wt 311.10(c)?

***Except for projects solely limited to construction or modification of non-tidal shoreline structures only need to complete relevant sections of Attachment A.*

The project proposes a total of 3,912 sq. ft. of temporary impact and 978 sq. ft. of permanent impact to the previously developed 100' Tidal Buffer Zone, and 45 sq. ft. of impact to saltmarsh for the addition of rip rap outlet protection for an existing stormwater outfall which qualifies as a minor impact project under Env-Wt 605.03(b)(5) and therefore a Coastal Functional Assessment is required and a Coastal Vulnerability Assessment is required and attached to this application.



COASTAL RESOURCE WORKSHEET

Water Division/Land Resources Management Wetlands Bureau



[Check the Status of your Application](#)

RSA/Rule: RSA 482-A/ Env-Wt 600

APPLICANT LAST NAME, FIRST NAME, M.I.: [REDACTED]

This worksheet may be used to present the information required for projects in coastal areas, in addition to the information required for Lower-Scrutiny Approvals, Expedited Permits, and Standard Permits under Env-Wt 603.01.

Please refer to Env-Wt 605.03 for impacts requiring compensatory mitigation.

SECTION 1 - REQUIRED INFORMATION (Env-Wt 603.02; Env-Wt 603.06; Env-Wt 603.09)

The following information is required for projects in coastal areas.

Describe the purpose of the proposed project, including the overall goal of the project, the core project purpose consisting of a concise description of the facilities and work that could impact jurisdictional areas, and the intended project outcome. Specifically identify all natural resource assets in the area proposed to be impacted and include maps created through a data screening in accordance with Env-Wt 603.03 (refer to Section 2) and Env-Wt 603.04 (refer to Section 3) as attachments.

The project proposes 3,912 sq. ft. of temporary impact and 978 sq. ft. of permanent impact to the previously developed 100' Tidal Buffer Zone for residential development including construction of a new home, driveway, a patio, utility connections, grading and associated landscaping. The project also proposes the removal of an existing gravel drive and improvements associated with an existing sewer pump station and 45 sq. ft. of impact to saltmarsh for the addition of rip rap outlet protection for an existing stormwater outfall associated with drainage structures located within Northwest Street. This existing outfall has created scouring and erosion at the point of discharge and the rip rap outlet protection will greatly reduce the potential for erosion and sedimentation in the future.

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For standard permit projects, provide:

- A Coastal Functional Assessment (CFA) report in accordance with Env-Wt 603.04 (refer to Section 3).
- A vulnerability assessment in accordance with Env-Wt 603.05 (refer to Section 4).

Explain all recommended methods and other considerations to protect the natural resource assets during and as a result of project construction in accordance with Env-Wt 311.07, Env-Wt 313, and Env-Wt 603.04.

The proposed residential development has been designed and located on the lot to avoid impacts to the previously developed 100' Tidal Buffer Zone to the greatest extent practicable. Due to the configuration of the lot, the location of tidal wetlands associated with the site, and local zoning and dimensional requirements, the building envelope in which a structure could be built is limited. The proposed structure has been placed within this building envelope and also entirely avoids the placement of structures within the 50' Waterfront Buffer. The project does include the removal of an existing gravel drive within the 50' Waterfront Buffer which will become a buffer planting area. See attached Coastal Vulnerability Assessment for project avoidance related to projected sea level rise.

Provide a narrative showing how the project meets the standard conditions in Env-Wt 307 and the approval criteria in Env-Wt 313.01.

The attached narrative and the project plan set, specifically the Details Sheet includes all notes demonstrating compliance with Env-Wt 307 and Env-Wt 313.01.

Provide a project design narrative that includes the following:

- A discussion of how the proposed project:
 - Uses best management practices and standard conditions in Env-Wt 307;
 - Meets all avoidance and minimization requirements in Env-Wt 311.07 and Env-Wt 313.03;
 - Meets approval criteria in Env-Wt 313.01;
 - Meets evaluation criteria in Env-Wt 313.01(c);
 - Meets CFA requirements in Env-Wt 603.04; and
 - Considers sea-level rise and potential flooding evaluated pursuant to Env-Wt 603.05;
- A construction sequence, erosion/siltation control methods to be used, and a dewatering plan; and
- A discussion of how the completed project will be maintained and managed.



- Provide design plans that meet the requirements of Env-Wt 603.07 (refer to Section 5);
- Provide water depth supporting information required by Env-Wt 603.08 (refer to Section 6); and
- For any major project that proposes to construct a structure in tidal waters/wetlands or to extend an existing structure seaward, provide a statement from the Pease Development Authority Division of Ports and Harbors (DP&H) chief harbormaster, or designee, for the subject location relative to the proposed structure's impact on navigation. If the proposed structure might impede existing public passage along the subject shoreline on foot or by non-motorized watercraft, the applicant shall explain how the impediments have been minimized to the greatest extent practicable.



SECTION 2 - DATA SCREENING (Env-Wt 603.03, in addition to Env-Wt 306.05)

Please use the Wetland Permit Planning Tool, or any other database or source, to indicate the presence of:

- Existing salt marsh and salt marsh migration pathways;
- Eelgrass beds;
- Documented shellfish sites;
- Projected sea-level rise; and
- 100-year floodplain.

Conduct data screening as described to identify documented essential fish habitat, and tides and currents that may be impacted by the proposed project, by using the following links:

- [National Oceanic and Atmospheric Administration \(NOAA\) Tides & Currents](#); and
- [NOAA Essential Fish Habitat Mapper](#).
- Verify or correct the information collected from the data screenings by conducting an on-site assessment of the subject property in accordance with Env-Wt 406 and Env-Wt 603.04.

SECTION 3 - COASTAL FUNCTIONAL ASSESSMENT/ AVOIDANCE AND MINIMIZATION (Env-Wt 603.04; Env-Wt 605.01; Env-Wt 605.02; Env-Wt 605.03)

Projects in coastal areas shall:

- Not impair the navigation, recreation, or commerce of the general public; and
- Minimize alterations in prevailing currents.

An applicant for a permit for work in or adjacent to tidal waters/wetlands or the tidal buffer zone shall demonstrate that the following have been avoided or minimized as required by Env-Wt 313.04:

- Adverse impacts to beach or tidal flat sediment replenishment;
- Adverse impacts to the movement of sediments along a shore;
- Adverse impacts on a tidal wetland's ability to dissipate wave energy and storm surge; and
- Adverse impacts of project runoff on salinity levels in tidal environments.

For standard permit applications submitted for minor or major projects:

- Attach a CFA based on the data screening information and on-site evaluation required by Env-Wt 603.03. The CFA for tidal wetlands or tidal waters shall be:
 - Performed by a qualified coastal professional; and
 - Completed using one of the following methods:
 - a. The US Army Corps of Engineers (USACE) Highway Methodology Workbook, dated 1993, together with the USACE New England District *Highway Methodology Workbook Supplement*, dated 1999; or
 - b. An alternative scientifically-supported method with cited reference and the reasons for the alternative method substantiated.

For any project that would impact tidal wetlands, tidal waters, or associated sand dunes, the applicant shall:

- Use the results of the CFA to select the location of the proposed project having the least impact to tidal wetlands, tidal waters, or associated sand dunes;
- Design the proposed project to have the least impact to tidal wetlands, tidal waters, or associated sand dunes;
- Where impact to wetland and other coastal resource functions is unavoidable, limit the project impacts to the least valuable functions, avoiding and minimizing impact to the highest and most valuable functions; and
- Include on-site minimization measures and construction management practices to protect coastal resource areas.

Projects in coastal areas shall use results of this CFA to:

- Minimize adverse impacts to finfish, shellfish, crustacean, and wildlife;
- Minimize disturbances to groundwater and surface water flow;
- Avoid impacts that could adversely affect fish habitat, wildlife habitat, or both; and
- Avoid impacts that might cause erosion to shoreline properties.

SECTION 4 - VULNERABILITY ASSESSMENT (Env-Wt 603.05)

Refer to the New Hampshire Coastal Flood Risk Summary Part 1: Science and New Hampshire Coastal Flood Risk Summary Part II: Guidance for Using Scientific Projections or other best available science to:

Determine the time period over which the project is designed to serve.

See attached CVA.

Identify the project's relative risk tolerance to flooding and potential damage or loss likely to result from flooding to buildings, infrastructure, salt marshes, sand dunes and other valuable coastal resource areas.

See attached CVA

Reference the projected sea-level rise (SLR) scenario that most closely matches the end of the project design life and the project's tolerance to risk or loss.

See attached CVA

Identify areas of the proposed project site subject to flooding from SLR.

See attached CVA

Identify areas currently located within the 100-year floodplain and subject to coastal flood risk.

See attached CVA

Describe how the project design will consider and address the selected SLR scenario within the project design life, including in the design plans.

See attached CVA

Where there are conflicts between the project's purpose and the vulnerability assessment results, schedule a pre-application meeting with the department to evaluate design alternatives, engineering approaches, and use of the best available science.

Pre-application meeting date held: **N/A**



STANDARD DREDGE AND FILL
WETLANDS PERMIT APPLICATION
ATTACHMENT A: MINOR AND MAJOR PROJECTS



Water Division/Land Resources Management
Wetlands Bureau

[Check the Status of your Application](#)

RSA/ Rule: RSA 482-A/ Env-Wt 311.10; Env-Wt 313.01(a)(1); Env-Wt 313.03

APPLICANT'S NAME: Darrell Moreau

TOWN NAME: Portsmouth

Attachment A is required for *all minor and major projects*, and must be completed *in addition* to the [Avoidance and Minimization Narrative](#) or [Checklist](#) that is required by Env-Wt 307.11.

For projects involving construction or modification of non-tidal shoreline structures over areas of surface waters having an absence of wetland vegetation, only Sections I.X through I.XV are required to be completed.

PART I: AVOIDANCE AND MINIMIZATION

In accordance with Env-Wt 313.03(a), the Department shall not approve any alteration of any jurisdictional area unless the applicant demonstrates that the potential impacts to jurisdictional areas have been avoided to the maximum extent practicable and that any unavoidable impacts have been minimized, as described in the [Wetlands Best Management Practice Techniques For Avoidance and Minimization](#).

SECTION I.I - ALTERNATIVES (Env-Wt 313.03(b)(1))

Describe how there is no practicable alternative that would have a less adverse impact on the area and environments under the Department's jurisdiction.

THE PROJECT PROPOSES RESIDENTIAL DEVELOPMENT OF AN EXISTING RESIDENTIAL LOT. THE OWNER/APPLICANT DOES NOT HAVE ACCESS TO OTHER PROPERTIES THAT WOULD SERVE AS AN ALTERNATIVE AND ACHIEVE THE SAME PURPOSE. THE PROPOSED RESIDENTIAL DEVELOPMENT HAS BEEN DESIGNED AND LOCATED ON THE LOT TO AVOID IMPACTS TO THE PREVIOUSLY DEVELOPED 100' TIDAL BUFFER ZONE TO THE GREATEST EXTENT PRACTICABLE. DUE TO THE CONFIGURATION OF THE LOT, THE LOCATION OF TIDAL WETLANDS ADJACENT TO THE SITE, AND LOCAL ZONING AND DIMENSIONAL REQUIREMENTS, THE BUILDING ENVELOPE IN WHICH A STRUCTURE COULD BE BUILT IS LIMITED. THE PROPOSED STRUCTURE HAS BEEN PLACED WITHIN THIS BUILDING ENVELOPE AND ALSO AVOIDS THE PLACEMENT OF ANY STRUCTURES WITHIN THE 50' WATERFRONT BUFFER.

SECTION I.II - MARSHES (Env-Wt 313.03(b)(2))

Describe how the project avoids and minimizes impacts to tidal marshes and non-tidal marshes where documented to provide sources of nutrients for finfish, crustacean, shellfish, and wildlife of significant value.

The project proposes 45 sq. ft. of impact to tidal salt marsh for the installation of rip rap outlet protection at an existing stormwater outfall into North Mill Pond. This existing outfall has created scouring and erosion at the point of discharge and the rip rap outlet protection will greatly reduce the potential for erosion and sedimentation in the future.

SECTION I.III - HYDROLOGIC CONNECTION (Env-Wt 313.03(b)(3))

Describe how the project maintains hydrologic connections between adjacent wetland or stream systems.

Since the proposed project proposes impacts to the previously developed 100' Tidal Buffer Zone and very minimal impact to salt marsh for rip rap outlet protection, there is no project component that would impact streams or the conveyance of water from wetland to another.

SECTION I.IV - JURISDICTIONAL IMPACTS (Env-Wt 313.03(b)(4))

Describe how the project avoids and minimizes impacts to wetlands and other areas of jurisdiction under RSA 482-A, especially those in which there are exemplary natural communities, vernal pools, protected species and habitat, documented fisheries, and habitat and reproduction areas for species of concern, or any combination thereof.

The project does not propose any impacts to exemplary natural communities, vernal pools, protected species and habitat, documented fisheries, and habitat and reproduction areas for species of special concern.

SECTION I.V - PUBLIC COMMERCE, NAVIGATION, OR RECREATION (Env-Wt 313.03(b)(5))

Describe how the project avoids and minimizes impacts that eliminate, depreciate or obstruct public commerce, navigation, or recreation.

The proposed project is located on private property and proposes no impacts or interference to public commerce, navigation or recreation.

SECTION I.VI - FLOODPLAIN WETLANDS (Env-Wt 313.03(b)(6))

Describe how the project avoids and minimizes impacts to floodplain wetlands that provide flood storage.

The residential component of the project is not located in a flood zone and therefore does not have the potential to impact any floodplains, or floodplain wetlands that provide flood storage. The rip rap outlet protection provides a stormwater best management practice for an existing outfall, is intended to provide a benefit to the resource, and would not effect the resource from providing flood storage potential.

SECTION I.VII - RIVERINE FORESTED WETLAND SYSTEMS AND SCRUB-SHRUB – MARSH COMPLEXES (Env-Wt 313.03(b)(7))

Describe how the project avoids and minimizes impacts to natural riverine forested wetland systems and scrub-shrub – marsh complexes of high ecological integrity.

The project does not propose impacts to riverine forested wetland systems and scrub shrub marsh complexes.

SECTION I.VIII - DRINKING WATER SUPPLY AND GROUNDWATER AQUIFER LEVELS (Env-Wt 313.03(b)(8))

Describe how the project avoids and minimizes impacts to wetlands that would be detrimental to adjacent drinking water supply and groundwater aquifer levels.

The wetland resources associated with the project site are not hydrologically connected to a groundwater aquifer or drinking water supply.

SECTION I.IX - STREAM CHANNELS (Env-Wt 313.03(b)(9))

Describe how the project avoids and minimizes adverse impacts to stream channels and the ability of such channels to handle runoff of waters.

The project does not propose any impacts to stream channels.

SECTION I.X - SHORELINE STRUCTURES - CONSTRUCTION SURFACE AREA (Env-Wt 313.03(c)(1))

Describe how the project has been designed to use the minimum construction surface area over surface waters necessary to meet the stated purpose of the structures.

N/A

SECTION I.XI - SHORELINE STRUCTURES - LEAST INTRUSIVE UPON PUBLIC TRUST (Env-Wt 313.03(c)(2))

Describe how the type of construction proposed is the least intrusive upon the public trust that will ensure safe docking on the frontage.

N/A

SECTION I.XII - SHORELINE STRUCTURES – ABUTTING PROPERTIES (Env-Wt 313.03(c)(3))

Describe how the structures have been designed to avoid and minimize impacts on ability of abutting owners to use and enjoy their properties.

N/A

SECTION I.XIII - SHORELINE STRUCTURES – COMMERCE AND RECREATION (Env-Wt 313.03(c)(4))

Describe how the structures have been designed to avoid and minimize impacts to the public's right to navigation, passage, and use of the resource for commerce and recreation.

N/A

SECTION I.XIV - SHORELINE STRUCTURES – WATER QUALITY, AQUATIC VEGETATION, WILDLIFE AND FINFISH HABITAT (Env-Wt 313.03(c)(5))

Describe how the structures have been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.

N/A

SECTION I.XV - SHORELINE STRUCTURES – VEGETATION REMOVAL, ACCESS POINTS, AND SHORELINE STABILITY (Env-Wt 313.03(c)(6))

Describe how the structures have been designed to avoid and minimize the removal of vegetation, the number of access points through wetlands or over the bank, and activities that may have an adverse effect on shoreline stability.

N/A

PART II: FUNCTIONAL ASSESSMENT
<p>REQUIREMENTS</p> <p>Ensure that project meets the requirements of Env-Wt 311.10 regarding functional assessment (Env-Wt 311.04(j); Env-Wt 311.10).</p>
<p>FUNCTIONAL ASSESSMENT METHOD USED:</p> <p>Wetland functions and values were assessed using the Highway Methodology Workbook, Wetland Functions and Values: A Descriptive Approach. U.S. Army Corps of Engineers. 1999. The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Descriptive Approach. U.S. Army Corps of Engineers. New England Division. 32pp. NAEPP-360-1-30a.</p>
<p>NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: STEVEN D. RIKER, NH CWS 219</p>
<p>DATE OF ASSESSMENT: OCTOBER 26, 2021</p>
<p>Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT:</p> <p><input checked="" type="checkbox"/></p>
<p>For minor or major projects requiring a standard permit without mitigation, the applicant shall submit a wetland evaluation report that includes completed checklists and information demonstrating the RELATIVE FUNCTIONS AND VALUES OF EACH WETLAND EVALUATED. Check this box to confirm that the application includes this information, if applicable:</p> <p><input checked="" type="checkbox"/></p> <p>Note: The Wetlands Functional Assessment worksheet can be used to compile the information needed to meet functional assessment requirements.</p>

Map by NH GRANIT



1 X: 1224999.402271
Y: 213532.771526

Legend

- State
- County
- City/Town

Map Scale

1: 12,988

© NH GRANIT, www.granit.unh.edu

Map Generated: 10/29/2021



Notes





Property Information

Property ID 0122-0002-0000
Location 137 NORTHWEST ST
Owner MORNEAULT GREGORY J



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

City of Portsmouth, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 4/1/2019
Data updated 7/17/2019

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.



AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS
200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

1 March 2022

Andrea L. Ardito & R. Brad Lebo
121 Northwest Street
Portsmouth, NH 03801

RE: New Hampshire Wetland & Shoreland Applications for proposed site development for Darrell Moreau, Northwest Street, Portsmouth, NH.

Dear Property Owner,

Under NH RSA 482-A and RSA 483-B this letter is to inform you in accordance with State Law that a NH DES Wetlands Permit and a NH DES Shoreland Permit will be filed with the New Hampshire Department of Environmental Services (DES) Wetlands Bureau for a permit to **impact the 100' Tidal Buffer Zone, the 250' Protected Shoreland and tidal wetlands**, on behalf of your abutter, **Darrell Moreau**.

This letter is sent to inform you as an abutter to the above-referenced property (according to local Municipal records) that **Darrell Moreau** proposes a project that requires construction in the 100' Tidal Buffer Zone, the 250' Protected Shoreland, and tidal wetlands, all jurisdictional areas.

Plans are on file at this office, and once the application is filed, plans that show the proposed project and wetland and other jurisdictional impacts will be available for viewing at the office of the Portsmouth clerk, **Portsmouth City offices** during their normal business hours, or once received by DES, at the offices of the DES Wetlands Bureau, (8 a.m. to 4 p.m.) (603) 271-2147. It is suggested that you call ahead to the appropriate office to ensure the application is available for review.

Please feel free to call if you have any questions or comments.

Sincerely,

Steven D. Riker
NH Certified Wetland Scientist-Permitting Specialist

CERTIFIED MAIL/Return Receipt Requested



AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS
200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

1 March 2022

Mary A. Mahoney
206 Northwest Street
Portsmouth, NH 03801

RE: New Hampshire Wetland & Shoreland Applications for proposed site development for Darrell Moreau, Northwest Street, Portsmouth, NH.

Dear Property Owner,

Under NH RSA 482-A and RSA 483-B this letter is to inform you in accordance with State Law that a NH DES Wetlands Permit and a NH DES Shoreland Permit will be filed with the New Hampshire Department of Environmental Services (DES) Wetlands Bureau for a permit to **impact the 100' Tidal Buffer Zone, the 250' Protected Shoreland and tidal wetlands**, on behalf of your abutter, **Darrell Moreau**.

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Please feel free to call if you have any questions or comments.

Sincerely,

Steven D. Riker
NH Certified Wetland Scientist-Permitting Specialist

CERTIFIED MAIL/Return Receipt Requested



AMBIT ENGINEERING, INC. CIVIL ENGINEERS AND LAND SURVEYORS
200 Griffin Road, Unit 3, Portsmouth, NH 03801 Phone (603) 430-9282 Fax 436-2315

1 March 2022

Michael George Petrin & Katie Marie Laverriere
PO Box 899
Durham, NH 03824

RE: New Hampshire Wetland & Shoreland Applications for proposed site development for Darrell Moreau, Northwest Street, Portsmouth, NH.

Dear Property Owner,

Under NH RSA 482-A and RSA 483-B this letter is to inform you in accordance with State Law that a NH DES Wetlands Permit and a NH DES Shoreland Permit will be filed with the New Hampshire Department of Environmental Services (DES) Wetlands Bureau for a permit to **impact the 100' Tidal Buffer Zone, the 250' Protected Shoreland and tidal wetlands**, on behalf of your abutter, **Darrell Moreau**.

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Please feel free to call if you have any questions or comments.

Sincerely,

Steven D. Riker
NH Certified Wetland Scientist-Permitting Specialist

CERTIFIED MAIL/Return Receipt Requested

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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$



Postage	\$
Total Postage and Fees	\$

Sent To
ARDITO & LERO
Street and Apt. No., or PO Box No.
121 NORTHWEST STREET
City, State, ZIP+4®
PORTSMOUTH, NH 03801

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$



Postage	\$
Total Postage and Fees	\$

Sent To
HANONEN
Street and Apt. No., or PO Box No.
206 NORTHWEST STREET
City, State, ZIP+4®
PORTSMOUTH, NH 03801

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$



Postage	\$
Total Postage and Fees	\$

Sent To
PETRIN & LAVERRIERE
Street and Apt. No., or PO Box No.
PO BOX 899
City, State, ZIP+4®
DORRISLAND, NH 03824

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Site Photograph #1

March 2022



Site Photograph #2

March 2022



Site Photograph #3

March 2022



Site Photograph #4

March 2022



Site Photograph #5

March 2022



Site Photograph #6

March 2022



Site Photograph #7

March 2022



Site Photograph #8

March 2022



New Hampshire Natural Heritage Bureau

NHB DataCheck Results Letter

To: John Chagnon, Ambit Engineering, Inc.
200 Griffin Road
Unit 3
Portsmouth, NH 03801

From: NH Natural Heritage Bureau

Date: 11/4/2021 (valid until 11/4/2022)

Re: Review by NH Natural Heritage Bureau of request submitted 10/22/2021

Permits: NHDES - Shoreland Standard Permit, NHDES - Wetland Standard Dredge & Fill - Major

NHB ID: NHB21-3316

Applicant: Darrel Moreau

Location: Portsmouth
Northwest Street

Project Description: The project proposes the construction of a single family home with attached 2 car garage, driveway, grading and associated landscaping. The project also proposes the reconfiguration of the existing access/egress to the City of Portsmouth sewer pump station that exists on the lot, and also providing rip rap outlet protection for an existing stormwater discharge pipe on the southern side of Northwest Street.

The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program 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.

It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 10/22/2021 11:53:52 AM, and cannot be used for any other project.

New Hampshire Natural Heritage Bureau NHB DataCheck Results Letter

MAP OF PROJECT BOUNDARIES FOR: NHB21-3316

NHB21-3316





CITY OF PORTSMOUTH

Planning Department
1 Junkins Avenue
Portsmouth, New
Hampshire 03801
(603) 610-7216

PLANNING BOARD

November 23, 2021

Gregory & Amanda Morneault
137 Northwest Street
Portsmouth, NH 03801

RE: Preliminary and Final Subdivision Approval for property located at 137 Northwest Street (LU-20-222)

Dear Mr. & Mrs. Morneault:

The Planning Board, at its regularly scheduled meeting of Thursday, November 18, 2021, considered your application for Preliminary and Final Subdivision Approval to subdivide 1 existing lot with 18,134 square feet of lot area, 19 feet of lot depth, and 537 feet of street frontage into 2 lots as follows: Proposed Lot 1 with 7,500 square feet of lot area, 44 feet of lot depth, and 179 feet of street frontage; Proposed Lot 2 with 10,634 square feet of lot area, 25 feet of lot depth, and 357 feet of street frontage. The existing residence will remain and be on Proposed Lot 1 and a new home will be constructed on Proposed Lot 2. Said property is shown on Assessor Map 122 Lot 2 and lies within the General Residence A (GRA) District. As a result of said consideration, the Board voted grant preliminary and final subdivision approval as presented and advertised.

The Board's decision may be appealed up to thirty (30) days after the vote. Any action taken by the applicant pursuant to the Board's decision during this appeal period shall be at the applicant's risk. Please contact the Planning Department for more details about the appeals process.

All stipulations of subdivision approval, including recording of the plat as required by the Planning Department, shall be completed within six (6) months of the date of approval, unless an extension is granted by the Planning Director or the Planning Board in accordance with Section III.D of the Subdivision Rules and Regulations. If all stipulations have not been completed within the required time period, the Planning Board's approval shall be deemed null and void.

This subdivision approval is not final until the Planning Director has certified that the applicant has complied with the conditions of approval imposed by the Planning Board.

The minutes and audio recording of this meeting are available by contacting the Planning Department.

Very truly yours,



Dexter R. Legg, Chairman of the Planning Board

cc: Rosann Maurice-Lentz, City Assessor

Darrell Moreau

John Chagnon, Ambit Engineering

R. Timothy Phoenix, Esq., Hoefle, Phoenix, Gormley & Roberts, PLLC

CITY OF PORTSMOUTH

Planning Department
1 Junkins Avenue
Portsmouth, New
Hampshire 03801
(603) 610-7216



PLANNING BOARD

February 2, 2022

Gregory & Amanda Morneault
137 Northwest Street
Portsmouth, NH 03801

RE: Wetland Conditional Use Permit Approval for property located at 137 Northwest Street (LU-20-222)

Dear Mr. & Mrs. Morneault:

The Planning Board, at its regularly scheduled meeting of **Thursday, January 27, 2022**, considered your application for Wetland Conditional Use Permit under Section 10. 1017 of the Zoning Ordinance to impact 5,062 square feet of wetland buffer and 45 square feet of tidal wetland. The proposed new home and existing turnaround is partially within the 100' tidal buffer zone of the North Mill Pond. In addition to the new home the applicant is proposing to remove an existing gravel turnaround and install a new paved parking apron for City vehicles to turn around. This new turnaround and the City pump station are all within a new easement. In addition, there is a plan to upgrade the stormwater outfall to protect against erosion. Said property is shown on Assessor Map 122 Lot 2 and lies within the General Residence A (GRA) District. As a result of said consideration, the Board voted to **grant** the request as presented and advertised.

The Board's decision may be appealed up to thirty (30) days after the vote. Any action taken by the applicant pursuant to the Board's decision during this appeal period shall be at the applicant's risk. Please contact the Planning Department for more details about the appeals process.

Unless otherwise indicated, applicant is responsible for applying for and securing a building permit from the Inspection Department prior to starting any project work. All stipulations of approval must be completed prior to issuance of a building permit unless otherwise indicated.

This approval shall expire one year after the date of approval by the Planning Board unless a building permit is issued prior to that date. The Planning Board may grant a one-year extension of a conditional use permit if the applicant submits a written request to the Planning Board prior to the expiration date.

The minutes and audio recording of this meeting are available by contacting the Planning Department.

Very truly yours,

A handwritten signature in black ink, appearing to read "Rick Chellman". The signature is stylized and cursive.

Rick Chellman, Chairman of the Planning Board

cc: Shanti Wolph, Chief Building Inspector
Rosann Maurice-Lentz, City Assessor
Darrell Moreau
John Chagnon, Ambit Engineering
R. Timothy Phoenix, Esq., Hoefle, Phoenix, Gormley & Roberts, PLLC

Morneault, 137 Northwest Street

Coastal Vulnerability Assessment

Prepared for:

**Darrell Moreau
1B Jackson Hill Street
Portsmouth, New Hampshire 03801**

Prepared By:

**Ambit Engineering, Inc
200 Griffin, Unit 3
Portsmouth, New Hampshire 03801**



Introduction

This Coastal Vulnerability Assessment (CVA) is being provided in support of a New Hampshire Department of Environmental Services (NHDES) Wetland Permit Application for proposed site development located at TBD Northwest Street in Portsmouth, NH (herein referred to as “project site”). The project site is a residential lot located on the north side of Northwest Street and to the north of North Mill Pond. The site contains an existing sewer pump station which is maintained and operated by the City of Portsmouth. The surrounding land use is residential with similar residential structures.

Methods

On October 26, 2021, Steven D. Riker, CWS from Ambit Engineering, Inc. conducted a site visit to evaluate coastal characteristics of the project site. This CVA was completed utilizing the NH Coastal Flood Risk Science and Technical Advisory Panel (2019). New Hampshire Coastal Flood Risk Summary Part II: Guidance for Using Scientific Projections. Report Published by the University of New Hampshire (herein referred to as Guidance Document).

Part 1.1 – Project Type

This project proposes site development on the lot including including construction of a new home, driveway, a patio, utility connections, grading and associated landscaping. The project also proposes the removal of an existing gravel drive and improvements associated with an existing sewer pump station and impact to saltmarsh for the addition of rip rap outlet protection for an existing stormwater outfall associated with drainage structures located within Northwest Street. For more details regarding the proposed site improvements, please refer to the NH DES Wetlands Bureau Application Letter to the Wetlands Inspector and attached NHDES Permit Plan – C5.

Part 1.2 – Project Location

The project location is TBD Northwest Street, Portsmouth, NH, Tax Map 122, Lot 2 and consists of 10,634 sq. ft. of residential upland but does not contain any shoreline frontage along North Mill Pond. Access to the project site will be from Northwest Street for the staging of equipment and materials.

Part 1.3 – Timeline for Desired Useful Life

The desired useful life for this project is considered to be 2100 (50-100 years) due to the fact that the improvements involve an existing residential structure, which has a life expectancy of approximately 50-75 years.

2.1 – Project Risk Tolerance

The proposed project is considered to have a high risk tolerance considering the proposed improvements have a relatively low cost, are relatively easy to modify, propose little to no implications on public function and/or safety; and involve the construction of a residential structure. In addition, when referencing the American Society of Civil Engineers (ASCE), Flood Resistant Design and Construction, ASCE 24 document, this project would meet the standards of Flood Class 1.

2.2 – Risk Tolerance of Important Access and Service Areas

The risk tolerance of surrounding access and service areas is not applicable to this project, as the project occurs on a residential, private lot and is intended for private use; primary access of which would be from the residence.

3.1 – Relative Sea Level Rise Scenario (RSLR)

Based on Table 3 in the Guidance Document (see table below), the RSLR for this project (based on the previously determined high risk tolerance) is considered to be on the lower magnitude, and higher probability. The following table depicts the probable sea level rise from 2000 through 2150.

Table 3 from the Guidance Document:

Risk Tolerance	High	Medium	Low	Extremely Low
Example Project	Walking Trail *Docking structure & Stone Revetment	Local Road Culvert	Wastewater Treatment Facility	Hospital
Timeframe	Manage to the following sea level rise (ft*) <i>Compared to the sea level in the year 2000</i>			
	Lower magnitude Higher probability	←—————→		Higher magnitude Lower probability
2030	0.7	0.9	1.0	1.1
2050	1.3	1.6	2.0	2.3
2100	2.9	3.8	5.3	6.2
2150	4.6	6.4	9.9	11.7

*Added by Ambit Engineering, Inc. based on the application of the Guidance Document towards our project.

3.2 – RSLR Impacts to the Project Evaluation

Please see the attached Figure 1 – Projected SLR’s; which depicts the project site and relevant Highest Observable Tide Line (HOTL) and the projected SLR’s for the years 2030, 2050, 2100 and 2150. Considering the High Risk Tolerance and lower magnitude of this project; the project should be managed to 2.9 feet of predicted sea level rise in the year 2100. Given that the location of the HOTL is approximately at elevation 5, and the proposed finished floor of the proposed garage will be elevation 12 and the proposed home at elevation 13.75, it is not expected the projected RSLR for this project needs to be a strong consideration.

3.3 – Other Factors

Other factors were evaluated in conjunction with RSLR including surface water levels, groundwater levels, and current velocities which will increase with sediment erosion and deposition, which will also change. The projects position in the landscape was also considered relative to other infrastructure. The closest surface water to the project site is the adjacent North Mill Pond, projections of RSLR of which have already been depicted and discussed. There are no current restrictions on the project site or associated with the proposed project.

4.1 – RSLR and Coastal Storms

Due to the project site location being relatively adjacent to North Mill Pond, it is anticipated that RSLR and storm surge on the proposed project site are not at risk given location of HOTL is at approximate elevation 5, and the proposed finished floor of the proposed garage will be elevation 12, providing 7 feet of freeboard for wave action and or storm surge.

4.2 – Other Factors

Other factors such as surface water levels, groundwater levels, wind and current velocities have been considered. Considering the high risk tolerance of this project, it is not anticipated that this project has a significant level of vulnerability to RSLR and coastal storms.

Attached to this application you will find a “NH DES Permit Plan-C5” which depicts the existing lot, jurisdictional areas, abutting parcels, existing structures, proposed work, and permanent impact areas.

5.1 – Projected RSL-Induced Groundwater Rise

Groundwater rise mapping projections depicted on the NH Coastal Viewer were evaluated for the project site. The NH Coastal Viewer depicts a 1.2-2.2 feet groundwater level rise as the result of 2 feet of projected sea level rise. The NH Coastal Viewer projections have been subtracted from the estimated groundwater depths (Estimated Seasonal High Water Table-ESHWT) for the site of 30” resulting in ESHWT of 4-16”; however, the proposed development does not include any stormwater structures that would require infiltration or an on-site septic system that would be negatively impacted by groundwater rise.

5.2 – Projected Groundwater Depth at the Project Location

Based on knowledge of the site and soil morphology of the site, groundwater depth (Estimated Seasonal High Water Table) is approximately 30” below the soil surface.

6.1 – Best Available Precipitation Estimates

Please see the attached Extreme Precipitation Tables from the Northeast Regional Climate Center.

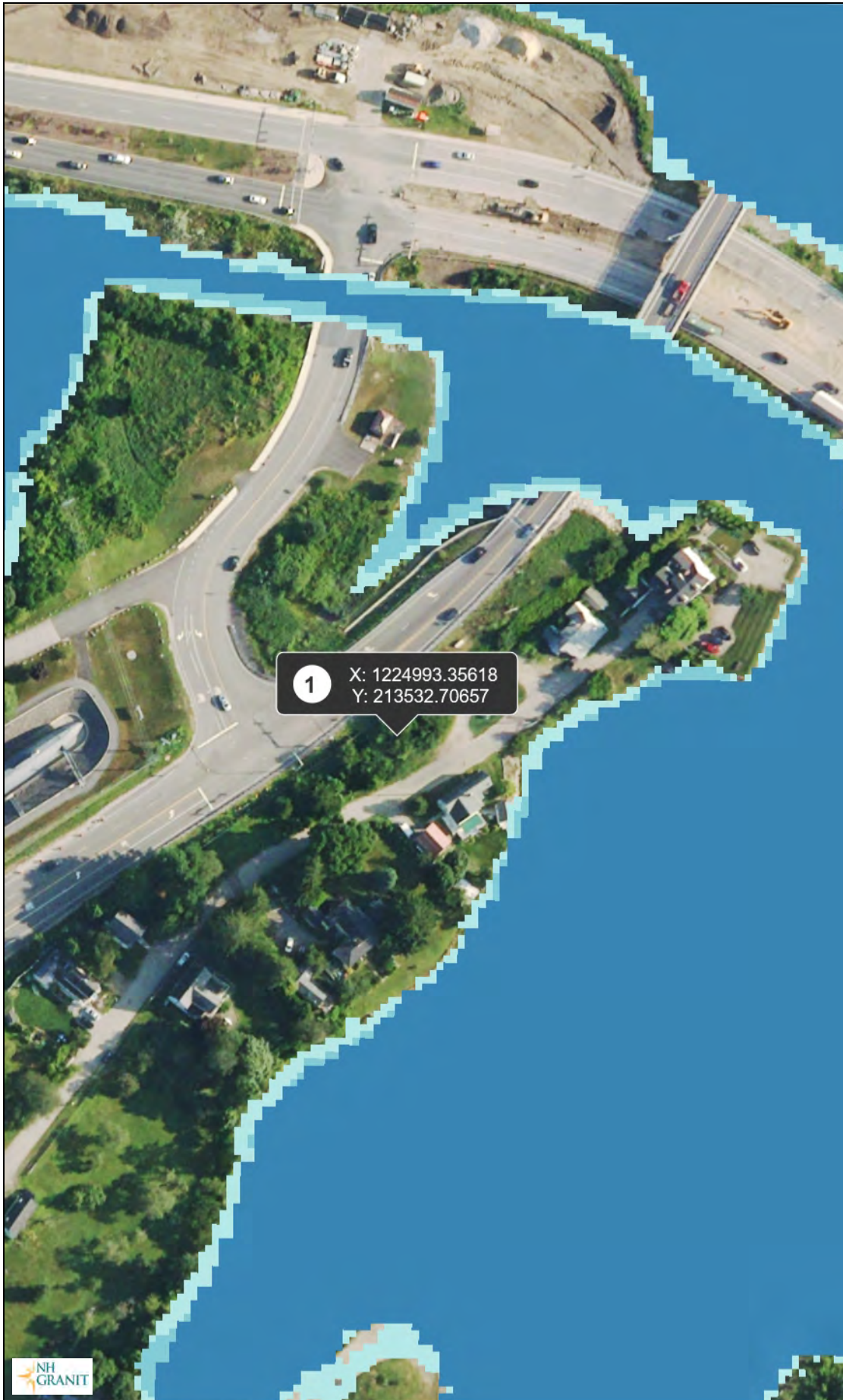
7.1 – Cumulative Coastal Flood Risk to the Project

Based on the high risk tolerance of this project combined with all other factors including RSLR, coastal storms, RSLR-induced groundwater rise, extreme precipitation and/or freshwater flooding occurring together; this project is not considered to be at high risk from coastal flooding.

7.2 – Possible Actions to Mitigate Coastal Flood Risk

Given the high risk tolerance of the proposed project, it is not anticipated that it is necessary to mitigate for coastal flood risk beyond what has already been incorporated into the design plan for the proposed development.

Map by NH GRANIT



Legend

MHHW + 1-ft SLR

0 - 2

2 - 4

4 - 6

6 - 8

8 - 10

Coastal 2019 1-foot RGB

Map Scale

1: 1,624

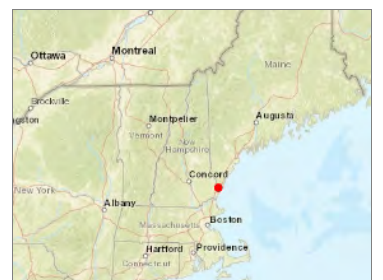
© NH GRANIT, www.granit.unh.edu

Map Generated: 2/18/2022

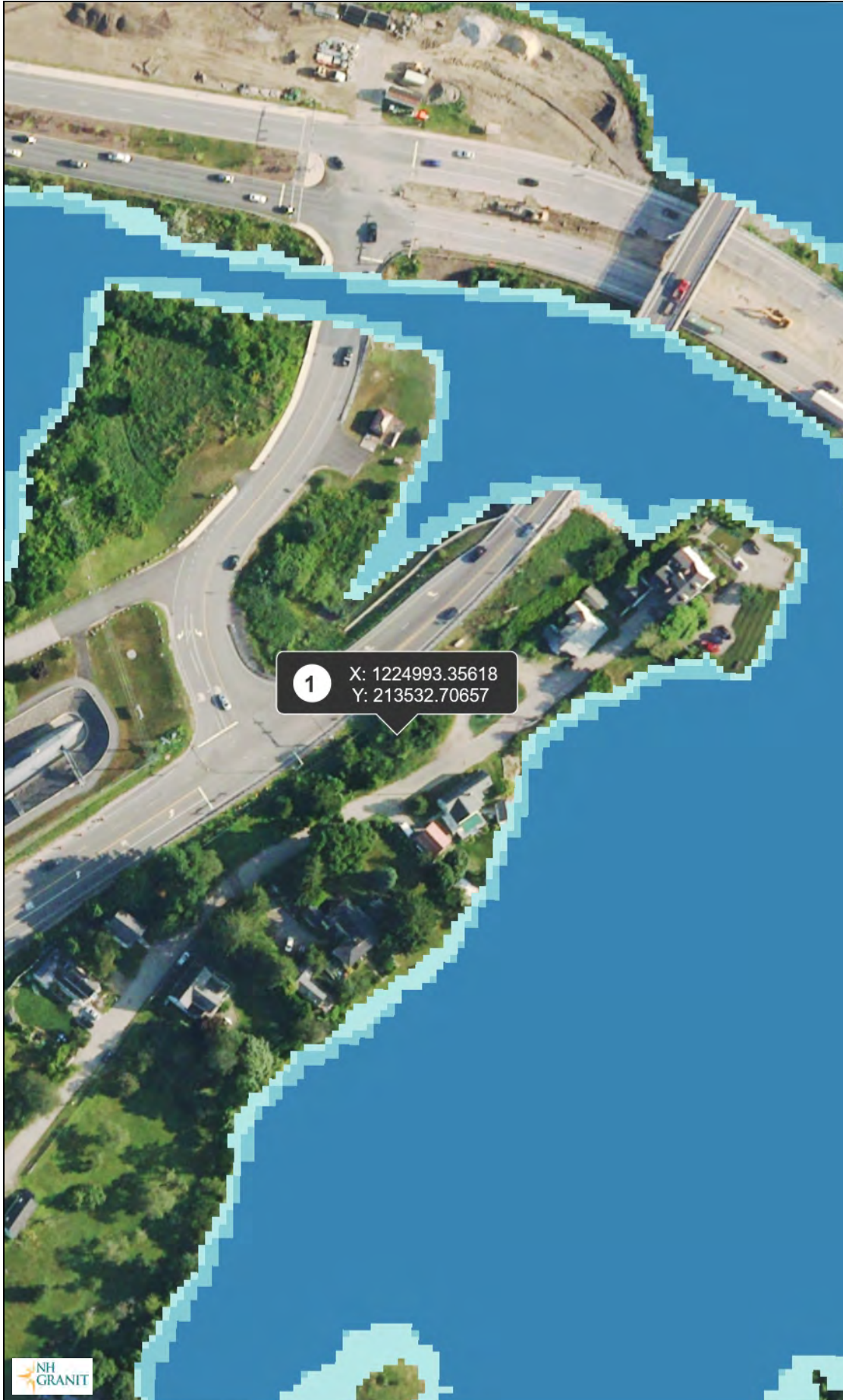


Notes

1 foot SLR



Map by NH GRANIT



Legend

MHHW + 2-ft SLR

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 +

Coastal 2019 1-foot RGB

1

X: 1224993.35618
Y: 213532.70657

Map Scale

1: 1,624

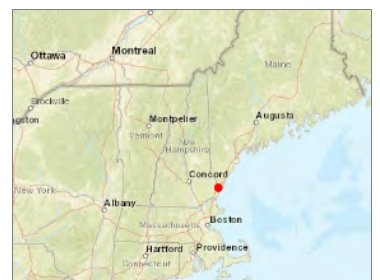
© NH GRANIT, www.granit.unh.edu

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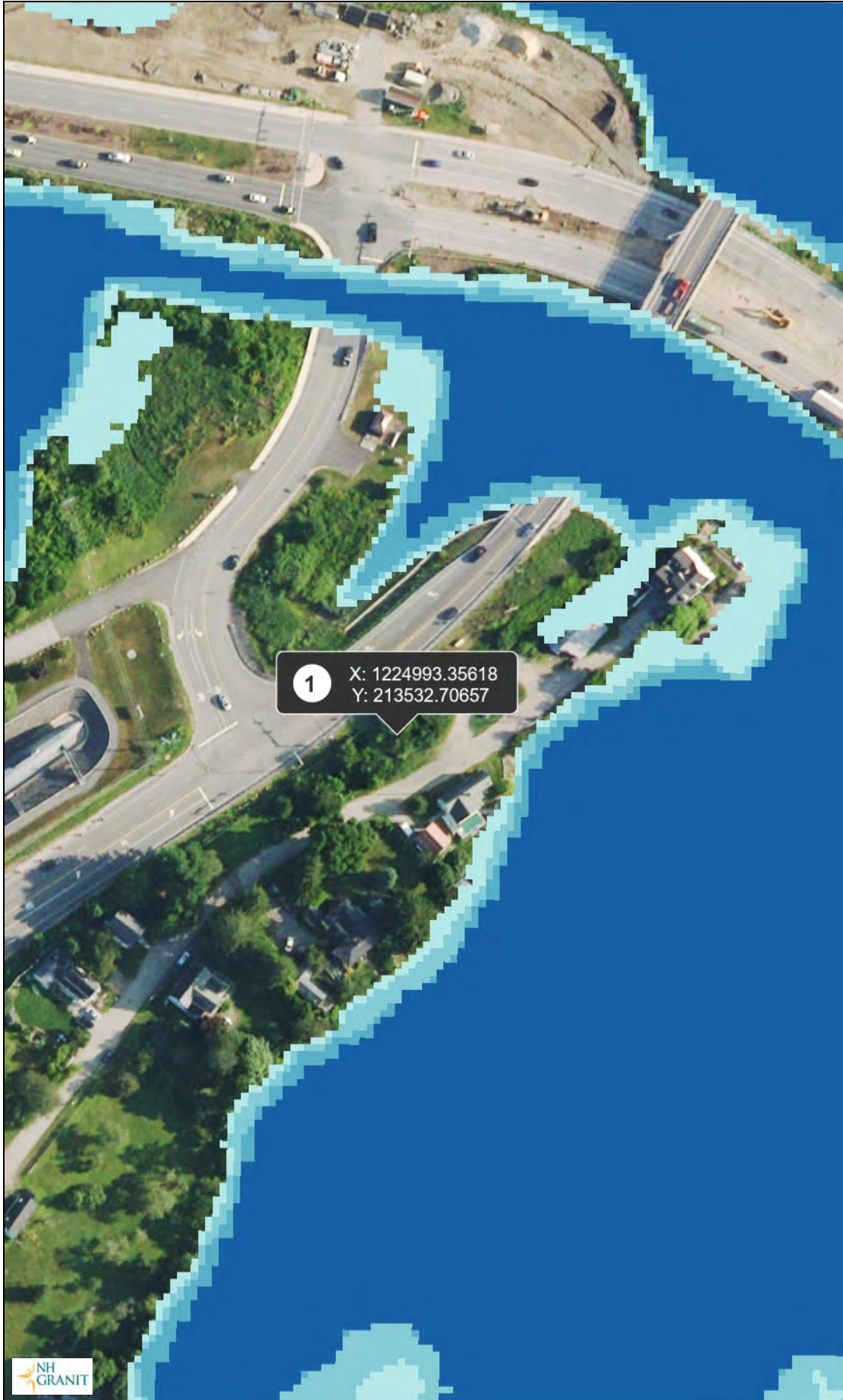


Notes

2 foot SLR



Map by NH GRANIT



Legend

MHHW + 4-ft SLR

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 +

Coastal 2019 1-foot RGB

Map Scale

1: 1,624

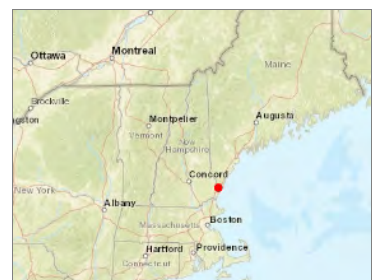
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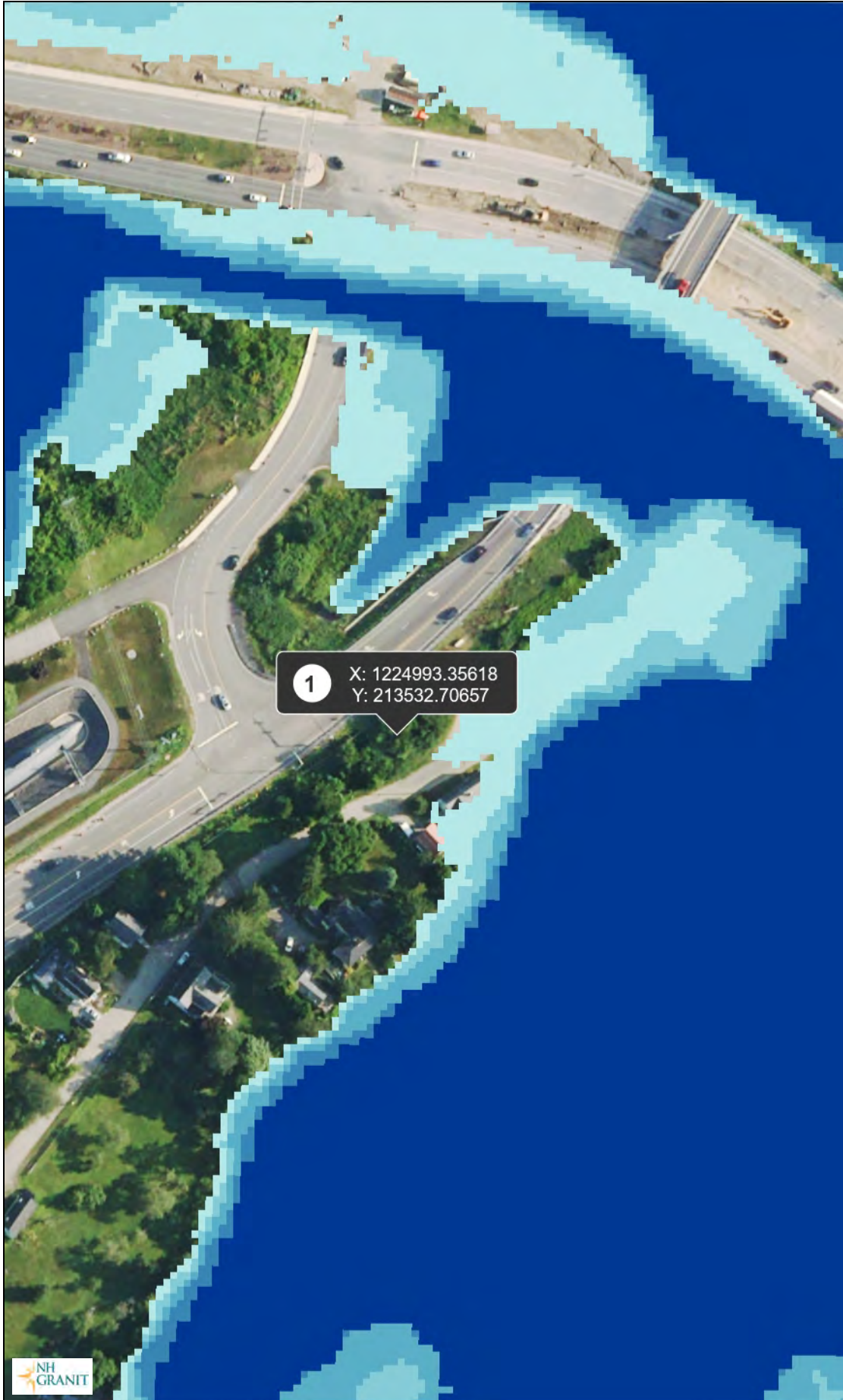


Notes

4 foot SLR



Map by NH GRANIT



1 X: 1224993.35618
Y: 213532.70657

Legend

MHHW + 6-ft SLR

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 +

Coastal 2019 1-foot RGB

Map Scale

1: 1,624

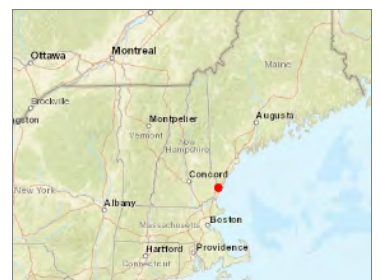
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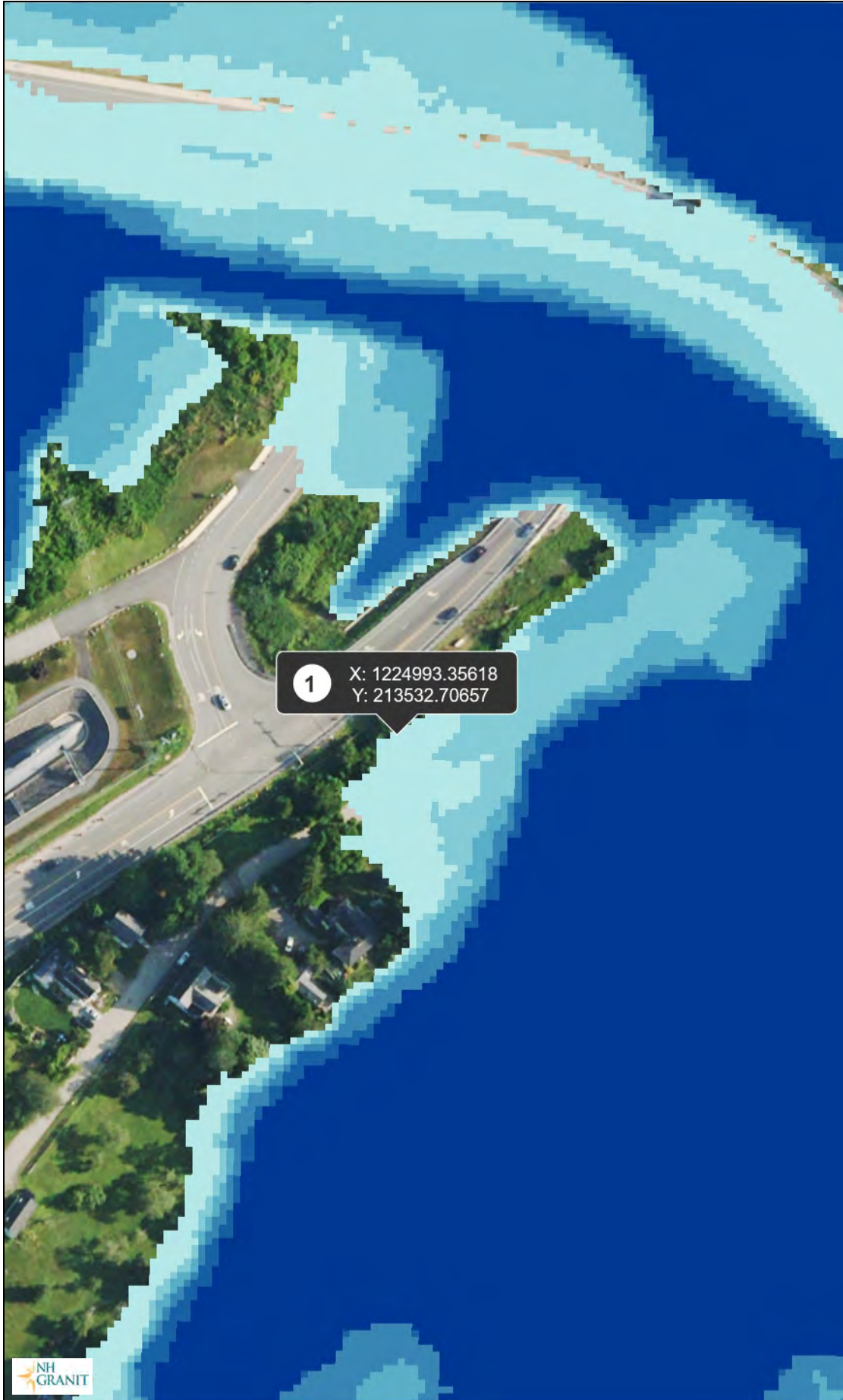


Notes

6 foot SLR



Map by NH GRANIT



Legend

MHHW + 8-ft SLR

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 +

Coastal 2019 1-foot RGB

1

X: 1224993.35618
Y: 213532.70657

Map Scale

1: 1,624

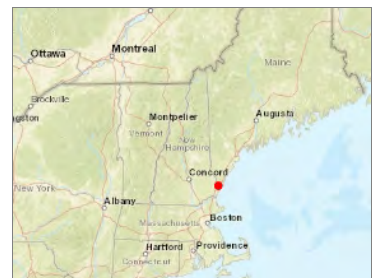
© NH GRANIT, www.granit.unh.edu

Map Generated: 2/18/2022



Notes

8 foot SLR



Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Smoothing	Yes
State	
Location	
Longitude	70.745 degrees West
Latitude	43.071 degrees North
Elevation	0 feet
Date/Time	Tue, 21 Jan 2020 12:37:30 -0500

Precipitation estimates multiplied by 1.15 are listed below:

1-yr: 3.06
 2-yr: 3.69
 10-yr: 5.59
 50-yr: 8.49

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.26	0.40	0.50	0.65	0.81	1.04	1yr	0.70	0.98	1.21	1.56	2.03	2.66	2.92	1yr	2.35	2.81	3.22	3.94	4.55	1yr
2yr	0.32	0.50	0.62	0.81	1.02	1.30	2yr	0.88	1.18	1.52	1.94	2.49	3.21	3.57	2yr	2.84	3.43	3.94	4.68	5.33	2yr
5yr	0.37	0.58	0.73	0.98	1.25	1.61	5yr	1.08	1.47	1.89	2.43	3.14	4.07	4.58	5yr	3.60	4.40	5.04	5.94	6.70	5yr
10yr	0.41	0.65	0.82	1.12	1.45	1.89	10yr	1.25	1.73	2.23	2.90	3.75	4.86	5.53	10yr	4.30	5.32	6.09	7.11	7.98	10yr
25yr	0.48	0.76	0.97	1.34	1.78	2.34	25yr	1.54	2.15	2.78	3.64	4.74	6.17	7.10	25yr	5.46	6.83	7.81	9.02	10.05	25yr
50yr	0.54	0.86	1.10	1.54	2.08	2.77	50yr	1.79	2.53	3.30	4.33	5.67	7.38	8.58	50yr	6.54	8.25	9.43	10.81	11.97	50yr
100yr	0.60	0.97	1.25	1.78	2.43	3.27	100yr	2.09	2.99	3.92	5.17	6.77	8.85	10.37	100yr	7.83	9.98	11.39	12.96	14.26	100yr
200yr	0.68	1.11	1.43	2.05	2.84	3.85	200yr	2.45	3.53	4.63	6.14	8.09	10.60	12.54	200yr	9.38	12.06	13.76	15.54	17.00	200yr
500yr	0.80	1.32	1.72	2.50	3.50	4.79	500yr	3.02	4.40	5.79	7.72	10.23	13.47	16.13	500yr	11.92	15.51	17.68	19.77	21.47	500yr

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.23	0.36	0.44	0.59	0.72	0.88	1yr	0.62	0.86	0.93	1.33	1.69	2.25	2.48	1yr	1.99	2.38	2.87	3.20	3.91	1yr
2yr	0.31	0.49	0.60	0.81	1.00	1.19	2yr	0.86	1.16	1.37	1.82	2.33	3.06	3.45	2yr	2.71	3.32	3.82	4.55	5.09	2yr
5yr	0.35	0.54	0.67	0.92	1.17	1.40	5yr	1.01	1.37	1.61	2.11	2.73	3.78	4.18	5yr	3.35	4.02	4.72	5.53	6.23	5yr
10yr	0.39	0.59	0.73	1.03	1.33	1.60	10yr	1.14	1.56	1.80	2.38	3.05	4.36	4.85	10yr	3.86	4.66	5.43	6.40	7.18	10yr
25yr	0.44	0.67	0.83	1.19	1.56	1.90	25yr	1.35	1.86	2.10	2.75	3.52	4.74	5.87	25yr	4.20	5.64	6.62	7.77	8.66	25yr
50yr	0.48	0.73	0.91	1.31	1.76	2.16	50yr	1.52	2.12	2.34	3.06	3.91	5.36	6.76	50yr	4.75	6.50	7.69	9.01	9.99	50yr
100yr	0.53	0.81	1.01	1.46	2.01	2.46	100yr	1.73	2.41	2.62	3.40	4.32	6.03	7.80	100yr	5.34	7.50	8.92	10.47	11.53	100yr
200yr	0.59	0.89	1.13	1.63	2.27	2.81	200yr	1.96	2.75	2.93	3.76	4.76	6.77	8.99	200yr	5.99	8.64	10.34	12.17	13.33	200yr
500yr	0.68	1.02	1.31	1.90	2.70	3.36	500yr	2.33	3.28	3.41	4.28	5.40	7.89	10.84	500yr	6.99	10.43	12.56	14.89	16.15	500yr

Upper Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1day	2day	4day	7day	10day	
1yr	0.29	0.44	0.54	0.72	0.89	1.09	1yr	0.77	1.06	1.26	1.74	2.20	2.97	3.17	1yr	2.63	3.05	3.58	4.37	5.04	1yr
2yr	0.34	0.52	0.64	0.87	1.07	1.27	2yr	0.92	1.24	1.48	1.96	2.52	3.42	3.71	2yr	3.03	3.57	4.10	4.84	5.62	2yr
5yr	0.40	0.62	0.77	1.05	1.34	1.62	5yr	1.15	1.59	1.89	2.54	3.26	4.34	4.97	5yr	3.84	4.78	5.38	6.39	7.17	5yr
10yr	0.47	0.72	0.89	1.25	1.61	1.98	10yr	1.39	1.94	2.29	3.11	3.97	5.34	6.22	10yr	4.72	5.98	6.84	7.86	8.77	10yr
25yr	0.58	0.88	1.09	1.56	2.05	2.58	25yr	1.77	2.52	2.96	4.08	5.17	7.74	8.37	25yr	6.85	8.05	9.20	10.36	11.43	25yr
50yr	0.67	1.03	1.28	1.84	2.47	3.14	50yr	2.13	3.07	3.61	5.02	6.35	9.69	10.50	50yr	8.57	10.10	11.51	12.76	13.99	50yr
100yr	0.79	1.20	1.50	2.17	2.98	3.83	100yr	2.57	3.74	4.39	6.18	7.81	12.11	13.17	100yr	10.72	12.66	14.41	15.74	17.13	100yr
200yr	0.93	1.40	1.77	2.57	3.58	4.68	200yr	3.09	4.57	5.36	7.61	9.61	15.19	16.53	200yr	13.44	15.89	18.08	19.41	20.97	200yr
500yr	1.16	1.72	2.21	3.21	4.57	6.07	500yr	3.94	5.94	6.96	10.07	12.67	20.50	22.33	500yr	18.14	21.48	24.39	25.60	27.40	500yr

Wetland Functions and Values Assessment

Prepared for:

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Prepared By:

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Date: February 17, 2022

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- Appendix B Photo Log
- Appendix C NH Natural Heritage Bureau Letter

INTRODUCTION

The applicant is proposing the development of a property located at TBD Northwest Street, Portsmouth, New Hampshire. The project site is the result of a subdivision and will be identified on Portsmouth Tax Map 122 as Lot 2-1, approximately 10,634 sq. ft. in size. As currently designed, the proposed project would require impacts to the 100' previously developed Tidal Buffer Zone (TBZ).

The purpose of this report is to present the existing functions and values of the tidal wetlands and to assess any impacts the proposed project may have on their ability to continue to perform these functions and values. The tidal wetlands being impacted were assessed with consideration to their association with North Mill Pond, the Piscataqua River and the larger marine ecosystem, and was not limited to the tidal wetlands immediately on-site.

METHODS

DATA COLLECTION

The tidal wetlands associated with this project area were identified and characterized through field surveys and review of existing information. Ambit Engineering, Inc. (Ambit) conducted site visits in October 2021 to characterize the tidal wetlands and collect the necessary information to complete a functions and values assessment. In addition, Ambit contacted the New Hampshire Natural Heritage Bureau (NHB) regarding existing information of documented rare species or natural communities within the vicinity of the project site.

WETLAND FUNCTIONS AND VALUES ASSESSMENT

Ambit assessed the ability of the tidal wetlands to provide certain functions and values and analyzed the potential affects the proposed project may have on their ability to continue to provide those functions and values. Wetland functions and values were assessed using the *Highway Methodology Workbook, Wetland Functions and Values: A Descriptive Approach*.¹ This method bases function and value determinations on the presence or absence of specific criteria for each of the 13 wetland functions and values (see definitions below). These criteria are assessed through direct field observations and a review of existing resource maps and databases. As part of the evaluation, the most important functions and values associated with the on-site wetlands are identified. In addition, the ecological integrity of the wetlands is evaluated based on the existing levels of disturbance and the overall significance of the wetlands within the local watershed.

° **Groundwater Interchange (Recharge/Discharge)**

This function considers the potential for the project area wetlands to serve as groundwater recharge and/or discharge areas. It refers to the fundamental interaction between wetlands and aquifers, regardless of the size or importance of either.

° **Floodwater Alteration (Storage and Desynchronization)**

This function considers the effectiveness of the wetlands in reducing flood damage by attenuating floodwaters for prolonged periods following precipitation and snow melt events.

° **Fish and Shellfish Habitat**

This function considers the effectiveness of seasonally or permanently flooded areas within the subject wetlands for their ability to provide fish and shellfish habitat.

° **Sediment/Toxicant Retention**

This function reduces or prevents degradation of water quality. It relates to the effectiveness of the wetland to function as a trap for sediments, toxicants, or pathogens, and is generally related to factors such as the type of soils, the density of vegetation, and the position in the landscape.

° **Nutrient Removal/Retention/Transformation**

This wetland function relates to the effectiveness of the wetland to prevent or reduce the adverse effects of excess nutrients entering aquifers or surface waters such as ponds, lakes, streams, rivers, or estuaries

¹ U.S. Army Corps of Engineers. 1999. *The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Descriptive Approach*. U.S. Army Corps of Engineers. New England Division. 32pp. NAEPP-360-1-30a.

◦ **Production Export (Nutrient)**

This function relates to the effectiveness of the wetland to produce food or usable products for humans or other living organisms.

◦ **Sediment/Shoreline Stabilization**

This function considers the effectiveness of a wetland to stabilize stream banks and shorelines against erosion, primarily through the presence of persistent, well-rooted vegetation.

◦ **Wildlife Habitat**

This function considers the effectiveness of the wetland to provide habitat for various types and populations of animals typically associated with wetlands and the wetland edge. Both resident and/or migrating species must be considered.

◦ **Recreation (Consumptive and Non-Consumptive)**

This value considers the suitability of the wetland and associated watercourses to provide recreational opportunities such as hiking, canoeing, boating, fishing, hunting, and other active or passive recreational activities.

◦ **Educational/Scientific Value**

This value considers the effectiveness of the wetland as a site for an "outdoor classroom" or as a location for scientific study or research.

◦ **Uniqueness/Heritage**

This value relates to the effectiveness of the wetland or its associated water bodies to provide certain special values such as archaeological sites, unusual aesthetic quality, historical events, or unique plants, animals, or geologic features.

◦ **Visual Quality/Aesthetics**

This value relates to the visual and aesthetic qualities of the wetland.

◦ **Endangered Species Habitat**

This value considers the suitability of the wetland to support threatened or endangered species.

FUNCTIONS AND VALUES ASSESSMENT

Results of the wetland functions and values assessment are presented below. This assessment includes a discussion of potential changes to existing wetland functions and values that may occur as a result of the proposed project:

Groundwater Interchange (Recharge/Discharge)

Because there is no identified sand and gravel aquifer underlying the project area, and the wetlands are not underlain by sands or gravel, it is unlikely that significant groundwater recharge is occurring within the tidal wetlands.

Floodflow Alteration (Storage and Desynchronization)

The tidal wetlands and North Mill Pond receive floodwaters from the surrounding watershed and connected waterways; therefore, is considered a principal function considering the large size of the combined waterways.

Fish and Shellfish Habitat

The tidal wetland does provide fish and shellfish habitat, is associated with North Mill Pond and the Piscataqua River and the Atlantic Ocean; therefore, is considered a principal function.

Sediment/Toxicant Retention

The tidal wetland (on site) contains dense vegetation and a significant source of sediments or toxicants, therefore this is considered a principal function.

Nutrient Removal/Retention/Transformation

The tidal wetland (on site) contains dense vegetation and a significant source of nutrients, therefore this is considered a principal function.

Production Export (Nutrient)

Production export is a wetland function that typically occurs in the form of nutrient or biomass transport via watercourses, foraging by wildlife species, and removal of timber and other natural products. Because the tidal wetland provides fish and wildlife habitat, commercial and recreational fisheries opportunities, and nutrients are transferred over several trophic levels in the marine ecosystem, this is considered a principal function.

Sediment/Shoreline Stabilization

Due to the tidal nature and wave action of this wetland; sediment/shoreline stabilization is considered a principal function.

Wildlife Habitat

The greater tidal wetland and North Mill Pond provide a variety of coastal and marine habitat, therefore would be considered a principal function.

Recreation (Consumptive and Non-Consumptive)

The greater tidal wetland and North Mill Pond provide a variety of consumptive and non-consumptive recreational opportunities including hunting, fishing and bird watching; therefore, would be considered a principal function.

Education/Scientific Value

The tidal wetland and North Mill Pond are part of a larger marine ecosystem with multiple areas of public access making this a principal value.

Uniqueness/Heritage

The tidal wetland and North Mill Pond are unique to the seacoast area. Additionally, there are pre and post-colonial historical components associated with the North Mill Pond and the surrounding areas making this a principal value.

Visual Quality/Aesthetics

The North Mill Pond provides aesthetically pleasing coastal views that are viewable from surrounding uplands as well as from the water, making this a principal function.

Endangered Species Habitat

No threatened or endangered species, species of special concern, or their associated habitats were observed on the project site. However, an online inquiry with the NHB resulted in an unspecified occurrence of a sensitive species or natural community near the project area. NHB determined that it is not expected that the project will have any negative impacts on the species or communities of record (see Appendix C). Because there is no specific endangered species habitat in the immediate project area, this is not considered a principal function.

PROPOSED IMPACTS

This report is accompanying a New Hampshire Department of Environmental Services (NHDES) Minor Impact Wetland Permit Application request to permit 3,912 sq. ft. of temporary construction impact, 978 sq. ft. of permanent impact to previously developed 100' TBZ for residential development including construction of a new home, driveway, a patio, utility connections, grading and associated landscaping. The project also proposes the removal of an existing gravel drive and improvements associated with a an existing sewer pump station and 45 sq. ft. of impact to saltmarsh for the addition of rip rap outlet protection for an existing stormwater outfall associated with drainage structures located within Northwest Street. This existing outfall has created scouring and erosion at the point of discharge and the rip rap outlet protection will greatly reduce the potential for erosion and sedimentation in the future.

SUMMARY AND CONCLUSIONS

The jurisdictional tidal wetland is part of a large marine system and provides eleven principal functions and values when evaluated as a whole. These functions and values include: floodflow alteration, fish and shellfish habitat, sediment/toxicant retention, nutrient removal, production export, sediment/shoreline

stabilization, wildlife habitat, recreation, education/scientific value, uniqueness/heritage, and visual quality aesthetics. While the entire marine system provides these principal functions and values, the proposed impacts will not have any affect on its ability to continue to provide them. Additionally, the removal of the existing gravel drive and 2,311 sq. ft. buffer planting area will serve to improve water quality that leaves the site, a function that does not currently exist.

The proposed impacts have been minimized to the greatest extent practicable, while allowing reasonable use of the property. The proposed residential structure is only partially located within the previously developed 100' Tidal Buffer Zone. The proposed rip rap outlet protection will not impede tidal flow or alter hydrology, it will not deter use by wildlife species that currently use the wetland area, and it will not impede any migrational fish movement. The rip rap outlet protection will greatly reduce the potential for erosion and sedimentation within the tidal wetland in the future.













Based on our assessment of the current functions and values and the proposed project, it is our belief that the proposed project will have no significant impact on the tidal wetlands or greater marine systems ability to continue to provide their functions and values.

APPENDIX A

WETLAND FUNCTION - VALUE EVALUATION FORM

Wetland Function – Value Evaluation Form

Wetland Description: Wetland A is a tidal wetland associated with North Mill Pond and the Piscataqua River.		File number: 2759.02	
		Wetland identifier: Wetland A	
		Latitude:X:1,224, 999.4	Longitude:Y:213,532.
		Preparer(s): Ambit Engineering, Inc.	
		200 Griffin Road	
		Date: October 26, 2021	

Function/Value	Capability		Summary	Principal Yes/No
	Y	N		
 Groundwater Recharge/Discharge		X	This wetland does not possess the characteristics needed to provide this function as there are no identified underlying sand or gravel aquifers.	—
 Floodwater Alteration	X		The tidal wetland and North Mill Pond do receive floodwater from the surrounding watershed and connected waterways; therefore, this would be considered a principal function.	Y
 Fish and Shellfish Habitat	X		The tidal wetland and North Mill Pond are part of a larger coastal marine system and provide both fish and shellfish habitat. This is considered a Principal Function.	Y
 Sediment/Toxicant Retention	X		The immediate tidal wetlands contain dense vegetation therefore this is considered a Principal Function.	Y
 Nutrient Removal	X		The immediate tidal wetlands contain dense vegetation therefore this is considered a Principal Function.	Y
 Production Export	X		Because the tidal wetland provides fish and wildlife habitat, commercial and recreational fishing opportunities, and nutrients are transferred over several trophic levels in the marine ecosystem, this is considered a principal function.	Y
 Sediment/Shoreline Stabilization	X		Due to the tidal nature and wave action of this wetland; sediment/shoreline stabilization is considered a principal function. Part of this project is to provide rip rap outlet protection for an existing stormwater outfall which should prevent erosion.	Y
 Wildlife Habitat	X		The greater tidal wetland and North Mill Pond provides a variety of coastal and marine habitat, therefore would be considered a principal function.	Y
 Recreation	X		The adjacent tidal wetland provides a variety of consumptive and non-consumptive recreational opportunities including hunting, fishing and bird watching; therefore, would be considered a principal function.	Y
 Education/Scientific Value	X		The tidal wetland and North Mill Pond are part of a larger marine ecosystem with multiple areas of public access making this a principal value.	Y
 Uniqueness/Heritage	X		The tidal wetland and North Mill Pond are unique to the seacoast area. Additionally, there are pre and post-colonial historical components associated with North Mill Pond and the surrounding areas making this a principal value.	Y
 Visual Quality/Aesthetics	X		The North Mill Pond provides aesthetically pleasing coastal views that are seeable from surrounding uplands as well as from the water, making this a principal function.	Y
ES Endangered Species Habitat		X	An online inquiry with the NH Natural Heritage Bureau resulted in an unspecified occurrence of a sensitive species near the project area; however, they determined that it is not expected that the project will have negative impacts on them. (Appendix D).	—
Other				

Notes:

* Attach list of considerations.

APPENDIX B

PHOTO LOG

APPENDIX C

NEW HAMPSHIRE NATURAL HERITAGE BUREAU CORRESPONDENCE

OWNERS:
GREGORY J. MORNEAULT
AMANDA B. MORNEAULT
 137 NORTHWEST STREET
 PORTSMOUTH, N.H. 03801

APPLICANT:

DARRELL MOREAU
 1B JACKSON HILL STREET
 PORTSMOUTH, N.H. 03801
 TEL: (603) 512-5116

LAND SURVEYOR & CIVIL ENGINEER:

AMBIT ENGINEERING, INC.
 200 GRIFFIN ROAD, UNIT 3
 PORTSMOUTH, N.H. 03801-7114
 TEL: (603) 430-9282
 FAX: (603) 436-2315

ARCHITECT:

ART FORM ARCHITECTURE, INC.
 44 LAFAYETTE ROAD
 NORTH HAMPTON, NH. 03862
 TEL: (603) 431-9559

PROPOSED SUBDIVISION PLAN

TBD NORTHWEST STREET

PORTSMOUTH, NEW HAMPSHIRE

PERMIT PLANS

REQUIRED PERMITS
 NHDES SHORELAND PERMIT: PENDING
 NHDES WETLAND PERMIT: PENDING
 PORTSMOUTH CONDITIONAL USE PERMIT: PENDING
 PORTSMOUTH ZONING BOARD: APPROVED 2/16/21
 PORTSMOUTH PLANNING BOARD SUBDIVISION: APPROVED 11/18/21

LEGEND:

N/F	NOW OR FORMERLY
RP	RECORD OF PROBATE
RCRD	ROCKINGHAM COUNTY
	REGISTRY OF DEEDS
11/21	MAP 11/LOT 21
● IR FND	IRON ROD FOUND
○ IP FND	IRON PIPE FOUND
● IR SET	IRON ROD SET
○ DH FND	DRILL HOLE FOUND
○ DH SET	DRILL HOLE SET
□	GRANITE BOUND w/IRON ROD FOUND

EXISTING	PROPOSED	
---	---	PROPERTY LINE
---	---	SETBACK LINE
FM	FM	FORCE MAIN
S	S	SEWER PIPE
SL	SL	SEWER LATERAL
G	PG	GAS LINE
D	D	STORM DRAIN
FD	FD	FOUNDATION DRAIN
W	W	WATER LINE
FS	FS	FIRE SERVICE LINE
UE	UGE	UNDERGROUND ELECTRIC SUPPLY
	UWE	UNDERGROUND ELECTRIC SERVICE
OHW	OHW	OVERHEAD ELECTRIC WIRES
	---	RETAINING WALL
	---	EDGE OF PAVEMENT (EP)
100	100	CONTOUR
97x3	98x0	SPOT ELEVATION
○	○	UTILITY POLE
□	□	ELECTRIC METER
□	□	TRANSFORMER ON CONCRETE PAD
		ELECTRIC HANDHOLD/PULLBOX
○ C.O.	○ C.O.	WATER SHUT OFF/CURB STOP
		PIPE CLEANOUT
○	○	GATE VALVE
		HYDRANT
○	○	CATCH BASIN
○	○	SEWER MANHOLE
○	○	DRAIN MANHOLE
○	○	WATER METER MANHOLE
○	○	TEST BORING
○	○	TEST PIT
LA	LA	LANDSCAPED AREA
CI	CI	CAST IRON PIPE
COP	COP	COPPER PIPE
CMP	CMP	CORRUGATED METAL PIPE
DI	DI	DUCTILE IRON PIPE
PVC	PVC	POLYVINYL CHLORIDE PIPE
RCP	RCP	REINFORCED CONCRETE PIPE
HYD	HYD	HYDRANT
℄	℄	CENTERLINE
EP	EP	EDGE OF PAVEMENT
EL	EL	ELEVATION
FF	FF	FINISHED FLOOR
INV	INV	INVERT
TBM	TBM	TEMPORARY BENCH MARK
TYP	TYP	TYPICAL



	R	Rural
	SR A	Single Residence A
	SR B	Single Residence B
	GR A	General Residence A
	GR B	General Residence B
	GR C	General Residence C
	GAMH	Garden Apartment/Mobile Home

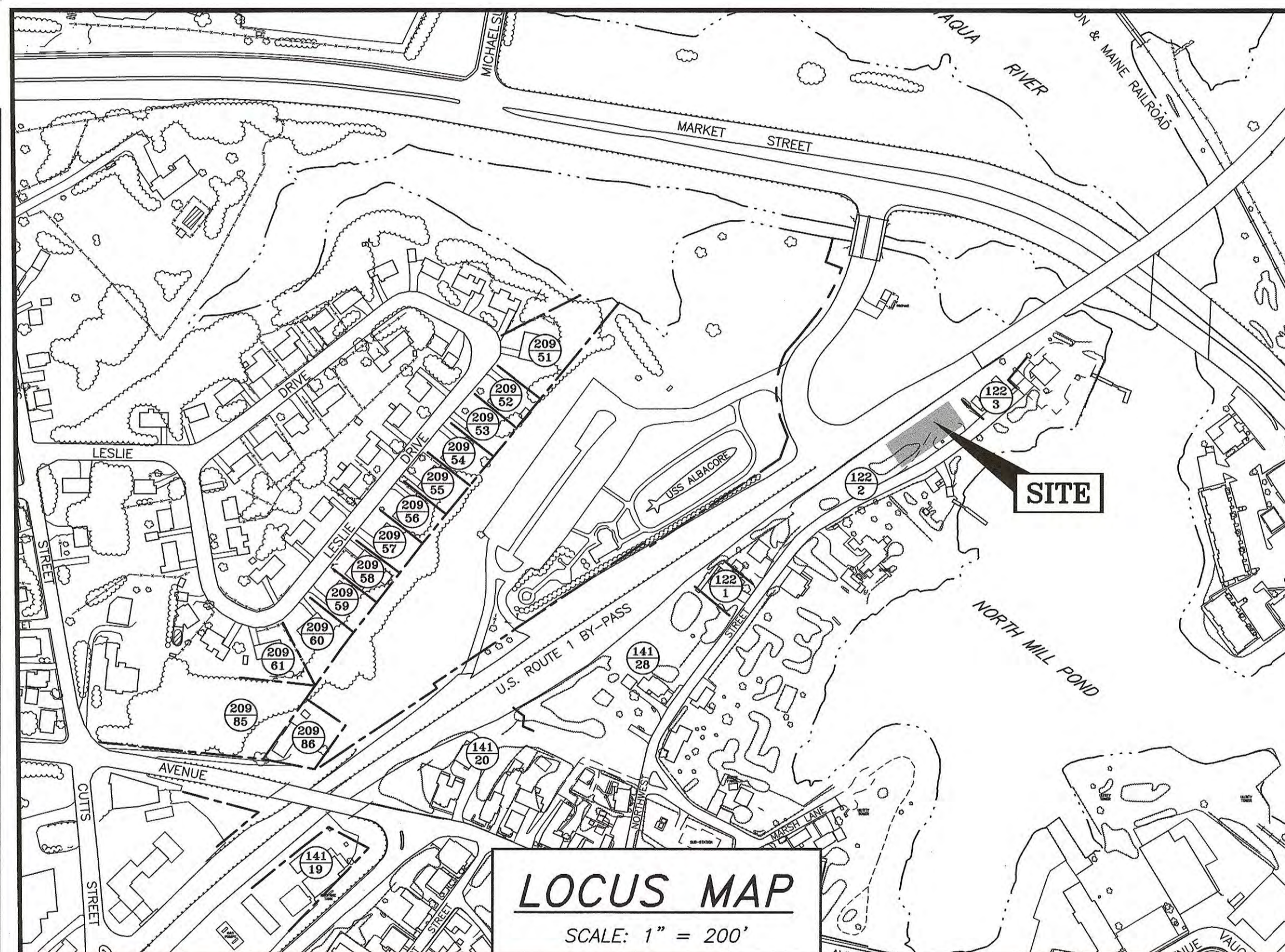
Mixed Residential Districts		
	MRO	Mixed Residential Office
	MRB	Mixed Residential Business
	G1	Gateway Corridor
	G2	Gateway Center

Business Districts		
	GB	General Business
	B	Business
	WB	Waterfront Business

Industrial Districts		
	OR	Office Research
	I	Industrial
	WI	Waterfront Industrial

Airport Districts		
	AIR	Airport
	AI	Airport Industrial
	PI	Pease Industrial
	ABC	Airport Business Commercial

Other Districts		
	M	Municipal
	NRP	Natural Resource Protection
	TC	Transportation Corridor



INDEX OF SHEETS

- SUBDIVISION PLAN
 C1- EXISTING CONDITIONS PLAN
 C2- SUBDIVISION SITE PLAN
 C3- EROSION CONTROL & GRADING PLAN
 C4- UTILITY PLAN
 C5- CUP & NHDES PERMIT PLAN
 P1- NEIGHBORHOOD PLAN- AERIAL
 D1-D2- DETAILS

UTILITY CONTACTS

ELECTRIC:
 EVERSOURCE
 74 OLD DOVER ROAD
 ROCHESTER, N.H. 03867
 Tel. (603) 332-4227,
 Ext. 555.5325
 ATTN: MARK COLLINS
 EMAIL:
 mark.collins@eversource.com

NATURAL GAS:
 UNITIL
 325 WEST ROAD
 PORTSMOUTH, N.H. 03801
 Tel. (603) 6294-5147
 ATTN: SUSAN DUPLISA
 dupliseas@unitil.com

CABLE:
 XFINITY BY COMCAST
 180 GREENLEAF AVE.
 PORTSMOUTH, N.H. 03801
 Tel. (603) 266-2278
 ATTN: MIKE COLLINS

SEWER & WATER:
 PORTSMOUTH DEPARTMENT
 OF PUBLIC WORKS
 680 PEVERLY HILL ROAD
 PORTSMOUTH, N.H. 03801
 Tel. (603) 427-1530
 ATTN: JIM TOW

COMMUNICATIONS:
 FAIRPOINT
 COMMUNICATIONS
 1575 GREENLAND ROAD
 GREENLAND, N.H. 03840
 Tel. (603) 427-5525
 ATTN: JOE CONSIDINE
 EMAIL:
 jconsidine@fairpoint.com

PROJECT ABUTERS:

- | | | | | | |
|--|---|--|---|--|--|
| | N/F
ANDREA L. ARDITO
R. BRAD LEBRO
121 NORTHWEST STREET
PORTSMOUTH, NH 03801
5646/912 | | N/F
MICHAEL GEORGE PETRIN
& KATIE MARIE LAVERRIERE
268 DENNETT STREET
PORTSMOUTH, NH 03801
6138/647 (12.3% INT.) | | N/F
NATHAN LAVERRIERE
2040 FRANKLIN STREET
APT. #801
SAN FRANCISCO, CA 94109
6138/647 (87.7% INT.) |
| | N/F
MICHAEL GEORGE PETRIN
& KATIE MARIE LAVERRIERE
268 DENNETT STREET
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NATHAN LAVERRIERE
2040 FRANKLIN STREET
APT. #801
SAN FRANCISCO, CA 94109
6138/647 (87.7% INT.) | | N/F
MARY A. MAHONEY TRUST
c/o MARY A. MAHONEY TRUST
208 NORTHWEST STREET
PORTSMOUTH, NH 03801
6042/1984 |
| | N/F
LARRY BOOZ
172 NORTHWEST STREET
PORTSMOUTH, NH 03801
5773/2064
0-14146 | | N/F
LISA E. GROUX
136 NORTHWEST STREET
PORTSMOUTH, NH 03801
4666/602
C-33849 | | N/F
THE SOCIETY FOR THE PRESERVATION
OF NEW ENGLAND ANTIQUITIES
141 CAMBRIDGE STREET
BOSTON, MA 02114
786/216 |

PORTSMOUTH APPROVAL CONDITIONS NOTE:
 ALL CONDITIONS ON THIS PLAN SET SHALL REMAIN IN EFFECT IN
 PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE CITY OF
 PORTSMOUTH SITE PLAN REVIEW REGULATIONS.

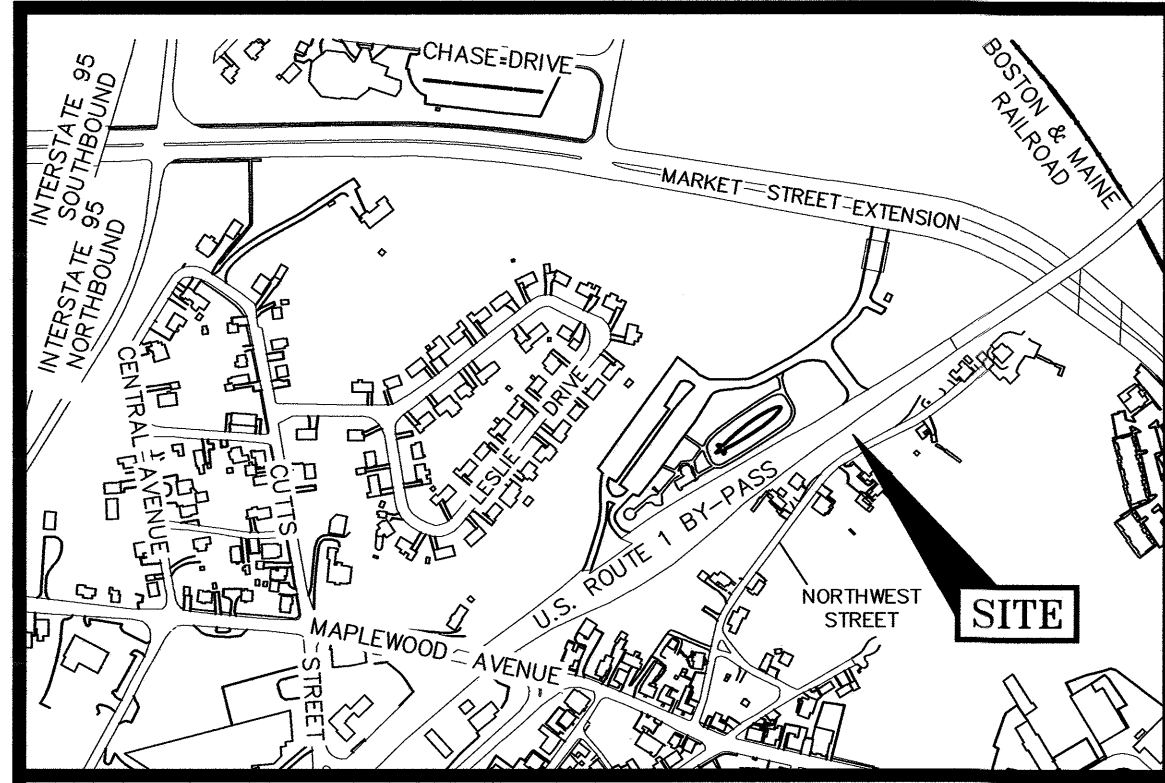
APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____

PROPOSED SUBDIVISION PLAN
TBD NORTHWEST STREET
PORTSMOUTH, N.H.

AMBIT ENGINEERING, INC.
 Civil Engineers & Land Surveyors
 200 Griffin Road - Unit 3
 Portsmouth, N.H. 03801-7114
 Tel (603) 430-9282
 Fax (603) 436-2315

PLAN SET SUBMITTAL DATE: 3 JANUARY 2022



LOCATION MAP SCALE: 1" = 500'

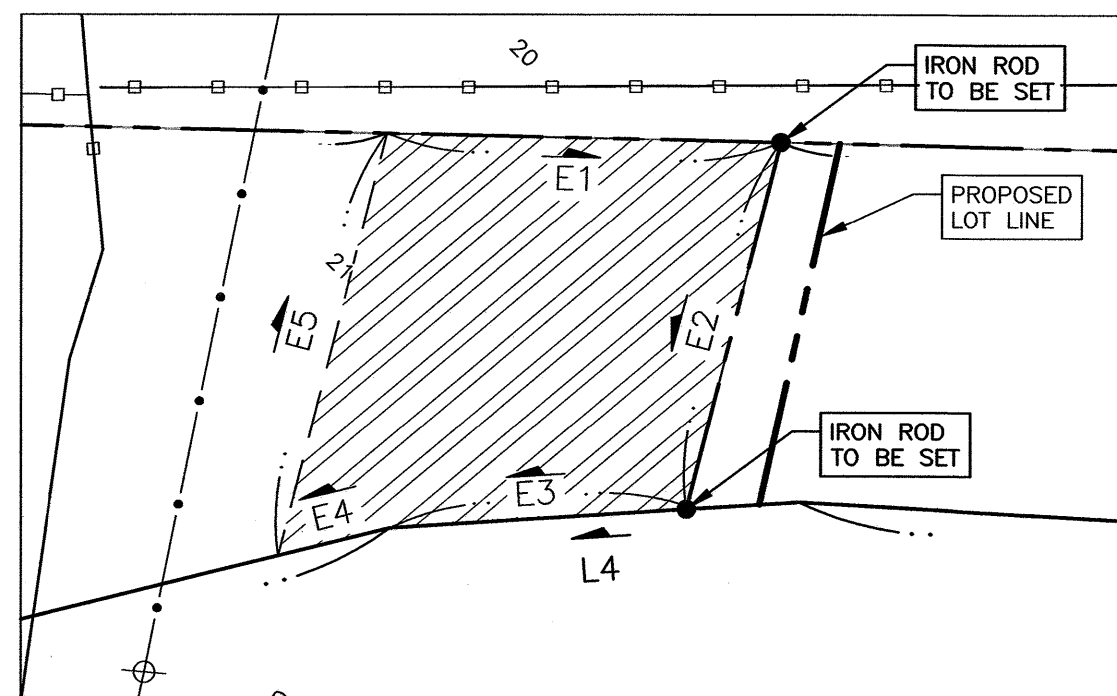
PLAN REFERENCES:

- 1) MAINE NEW HAMPSHIRE INTERSTATE BRIDGE AUTHORITY PISCATAQUA RIVER BRIDGE KITTERY, MAINE - PORTSMOUTH, NEW HAMPSHIRE RIGHT OF WAY MAP - N.H. APPROACH, SCALE: 1" = 50', PREPARED BY HARRINGTON AND CORTELYOU CONSULTING ENGINEERS KANSAS CITY, MO., DATED DECEMBER 1938, SHEET 1 OF 11, NOT RECORDED
- 2) MAINE - NEW HAMPSHIRE INTERSTATE BRIDGE AUTHORITY PISCATAQUA RIVER BRIDGE KITTERY, MAINE - PORTSMOUTH, NEW HAMPSHIRE RIGHT OF WAY MAPS N.H. APPROACH, RE-SURVEYED BY: MOULTON ENGINEERING CO. KITTERY, MAINE 1954, SCALE: 1" = 50', SHEET 1 OF 5, NOT RECORDED
- 3) US ROUTE 1 BYPASS & SUBMARINE WAY RIGHT OF WAY LAYOUT PLANS CITY OF PORTSMOUTH JULY 17, 2019, OWNER OF RECORD: STATE OF NEW HAMPSHIRE, STATE PROJECT NO. 13455, SCALE: 1" = 50', PREPARED BY GM2 ASSOCIATES, SHEETS 3 & 4 OF 6, RCRD D-41603
- 4) PLAN OF LAND PORTSMOUTH, N.H. FOR ESTATE OF GRACE L. HOYT, SCALE: 1" = 20' DATED DEC. 1972 REV. MAR. 1973, PREPARED BY JOHN W. DURGIN CIVIL ENGINEERS, RCRD D-3596
- 5) CONDOMINIUM SITE PLAN FOR GANTRY REALTY TRUST 172 NORTHWEST STREET COUNTY OF ROCKINGHAM PORTSMOUTH, N.H. SCALE: 1" = 20', DATED SEPT. 11, 1985 REV OCT. 1, 1985, PREPARED BY RICHARD P. MILLETTE AND ASSOCIATES, SHEET 1 OF 3, RCRD D-14146
- 6) STANDARD PROPERTY SURVEY AND CONDOMINIUM SITE PLAN OF LAND OF LOT 4 TAX MAP U-22 250 NORTHWEST STREET PORTSMOUTH, NEW HAMPSHIRE COUNTY OF ROCKINGHAM, SCALE: 1" = 10', DATED 9-9-96, PREPARED BY CIVILWORKS DOVER, N.H., RCRD D-24961
- 7) PLAN OF LAND IN THE NAME OF THE SUSAN M. REED REVOCABLE TRUST OF TAX MAP 122 / LOT 8 LOCATED AT #136 NORTHWEST STREET COUNTY OF ROCKINGHAM PORTSMOUTH, NH, SCALE: 1" = 20' DATED MAY 23, 2006, PREPARED BY DAVID W. VINCENT, LLS RCRD C-33849

LEGEND:

- N/F NOW OR FORMERLY
- RP RECORD OF PROBATE
- RCRD ROCKINGHAM COUNTY
- RR SPK RAILROAD SPIKE
- MAP 11/LOT 21
- IR FND IRON ROD FOUND
- IP FND IRON PIPE FOUND
- IR SET IRON ROD SET
- DH FND DRILL HOLE FOUND
- DH SET DRILL HOLE SET
- NHNB NHDOT BOUND FOUND
- TB TOWN BOUND
- BND w/DH BOUND WITH DRILL HOLE
- ST BND w/DH STONE BOUND WITH DRILL HOLE

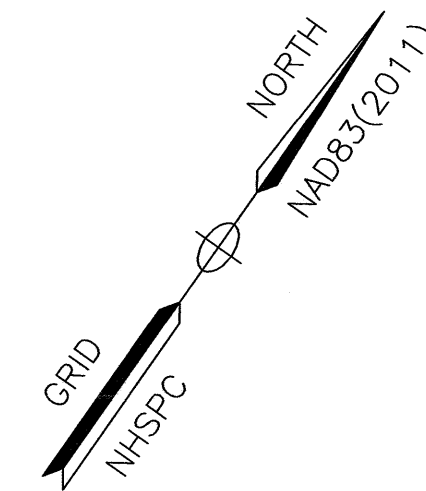
PROPOSED WATERLINE EASEMENT



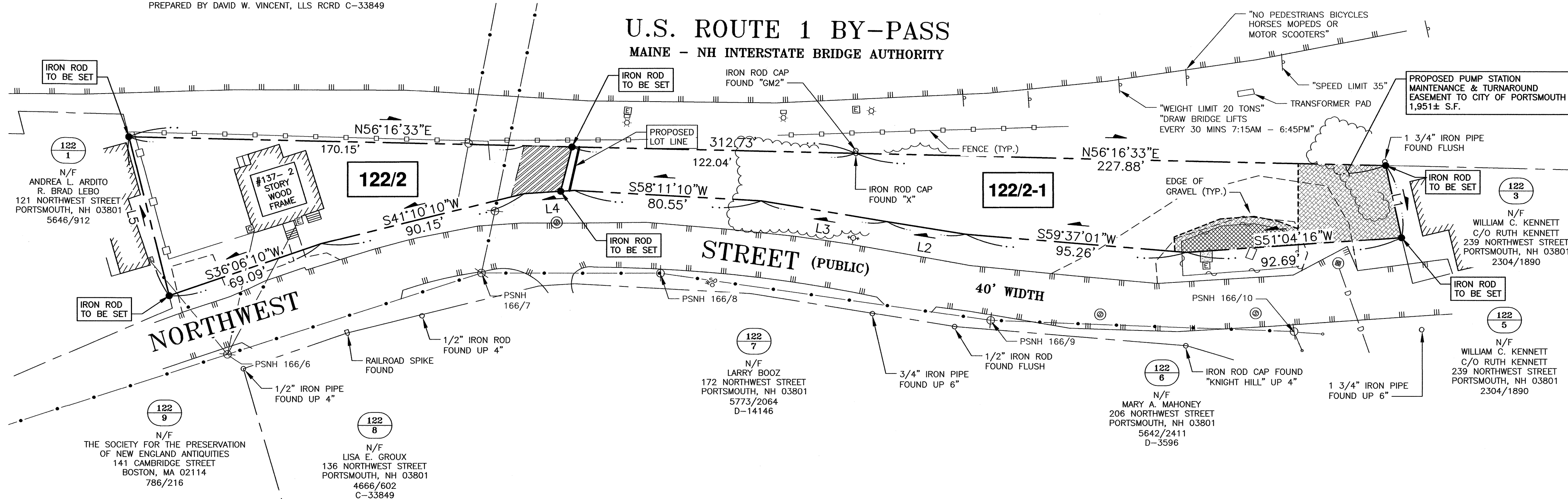
AREA A SCALE 1"=10'

REQUIRED VARIANCES:

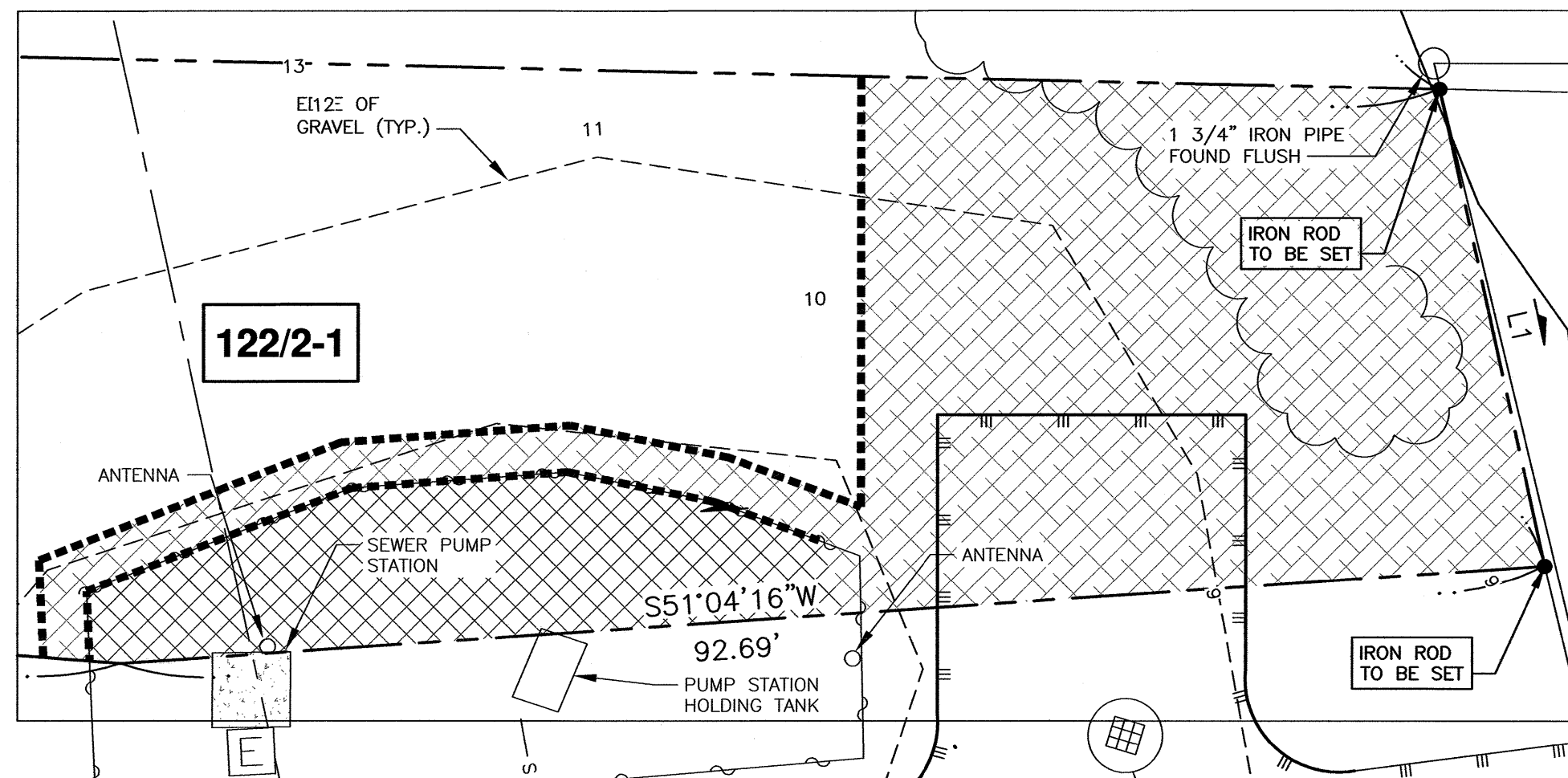
SECTION 10.521
 A LOT DEPTH OF 44.7 FEET FOR LOT 1 AND 25.4 FEET FOR LOT 2 WHERE 70 FEET IS REQUIRED FOR EACH.
 APPROVED 2-16-2021



**U.S. ROUTE 1 BY-PASS
 MAINE - NH INTERSTATE BRIDGE AUTHORITY**



SEWER PUMP STATION & TURN AROUND



AREA B SCALE 1"=10'

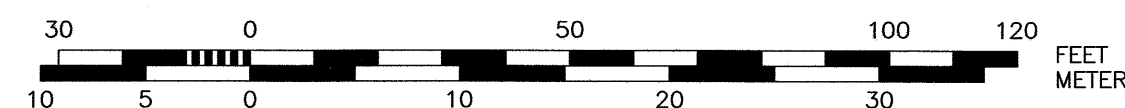
LENGTH TABLE

LINE	BEARING	DISTANCE
L1	S 47°28'51" E	31.75'
L2	S 64°01'21" W	34.26'
L3	S 64°19'54" W	54.79'
L4	S 51°20'10" W	21.35'
L5	N 49°16'35" W	70.45'

EASEMENT LENGTH TABLE

LINE	BEARING	DISTANCE
E1	N 56°16'33" E	20.54'
E2	S 20°36'02" E	19.73'
E3	S 51°20'10" W	15.48'
E4	S 41°10'10" W	5.99'
E5	N 20°36'02" W	22.71'

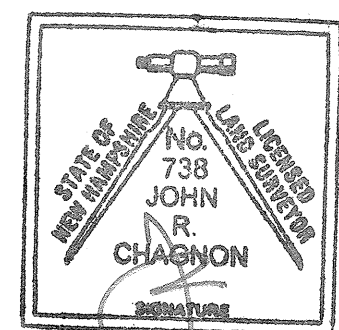
GRAPHIC SCALE



I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN ACCURACY OF THE CLOSED TRAVERSE THAT EXCEEDS THE PRECISION OF 1:15,000.

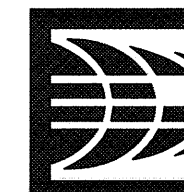
John R. Chagnon
 JOHN R. CHAGNON, LLS 738

8.23.21
 DATE



APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN DATE



AMBIT ENGINEERING, INC.

Civil Engineers & Land Surveyors

200 Griffin Road - Unit 3
 Portsmouth, N.H. 03801-7114
 Tel (603) 430-9282
 Fax (603) 436-2315

NOTES:

- 1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 122 AS LOT 2.
- 2) OWNERS OF RECORD:
 GREGORY J. MORNEAULT
 AMANDA B. MORNEAULT
 137 NORTHWEST STREET
 PORTSMOUTH, N.H. 03801

 APPLICANT:
 DARRELL MOREAU
 1B JACKSON HILL STREET
 PORTSMOUTH, NH 03801
- 3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA (AE EL 8) AS SHOWN ON FIRM PANEL 33015C0259E. EFFECTIVE DATE MAY 17, 2005. PARCEL IS PARTIALLY IN THE 2' EXTENDED FLOOD HAZARD ZONE.
- 4) EXISTING LOT AREA:
 18,134 S.F.
 0.4163 ACRES

 PROPOSED LOT AREAS:
 122/2 122/2-1
 7,500 S.F. 10,634 S.F.
 0.1722 ACRES 0.2441 ACRES
- 5) THE PURPOSE OF THIS PLAN IS TO SHOW THE SUBDIVISION OF ONE LOT INTO TWO LOTS AND CREATE EASEMENTS TO THE CITY OF PORTSMOUTH.
- 6) ZONING DISTRICTS:
 GENERAL RESIDENCE A (GRA) AND HISTORIC DISTRICT.
- 7) DIMENSIONAL REQUIREMENTS:
 LOT AREA: 7,500 S.F.
 FRONTAGE: 100'
 DEPTH: 70'
 SETBACKS: FRONT: 15', SIDE: 10', REAR: 20'.
 MAXIMUM STRUCTURE HEIGHT: 35'
 MAXIMUM BUILDING COVERAGE: 25%
 MINIMUM OPEN SPACE: 30%
- 8) PROPOSED LOT 1 DIMENSIONAL CALCULATIONS:
 LOT AREA: 7,500 S.F.
 FRONTAGE: 179'
 DEPTH: 44.7' AVERAGE
 SETBACKS:
 FRONT: 13.8'
 SIDE: 40.5'
 REAR: 1.8'
 BUILDING COVERAGE: 1,029 S.F. - 14%
 OPEN SPACE: 6,246 S.F. - 83%

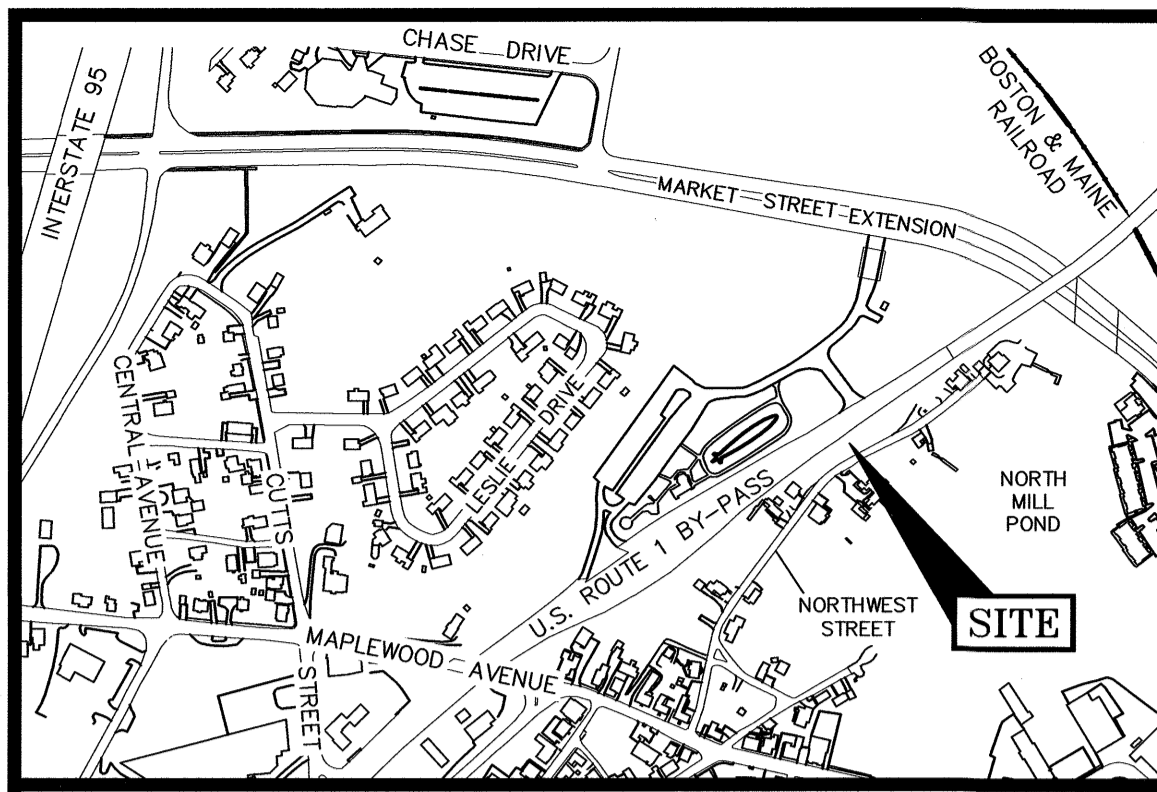
NO.	DESCRIPTION	DATE
1	EASEMENT LOCATION	8/23/21
0	ISSUED TO TAC	5/17/21

REVISIONS

**SUBDIVISION PLAN
 TAX MAP 122 - LOT 2**
 OWNERS:
**GREGORY J. MORNEAULT &
 AMANDA B. MORNEAULT**
 137 NORTHWEST STREET
 CITY OF PORTSMOUTH
 COUNTY OF ROCKINGHAM
 STATE OF NEW HAMPSHIRE

SCALE: 1" = 30' SEPTEMBER 2020

FB 249 PG 70 2759.02



LOCATION MAP

SCALE: 1" = 500'



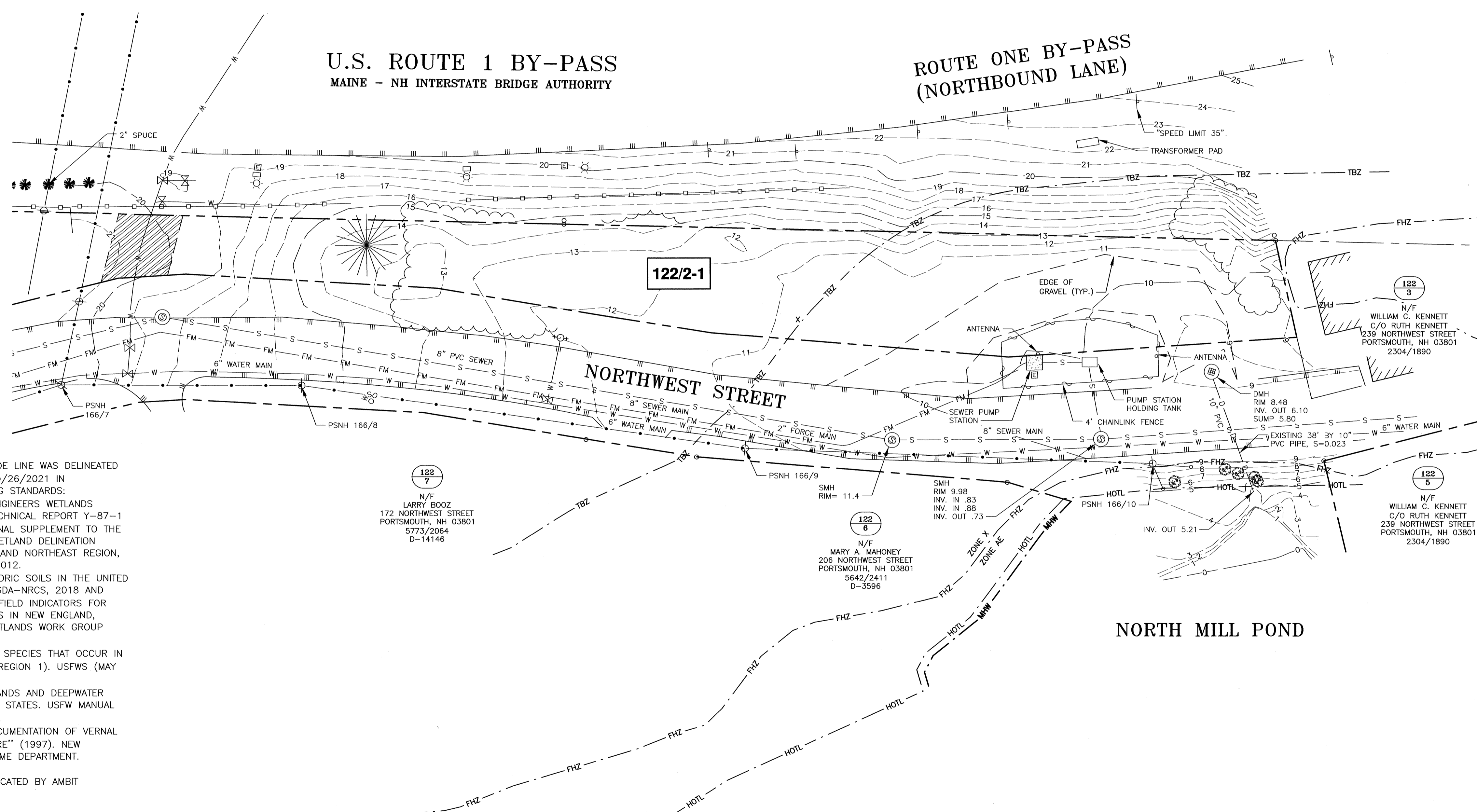
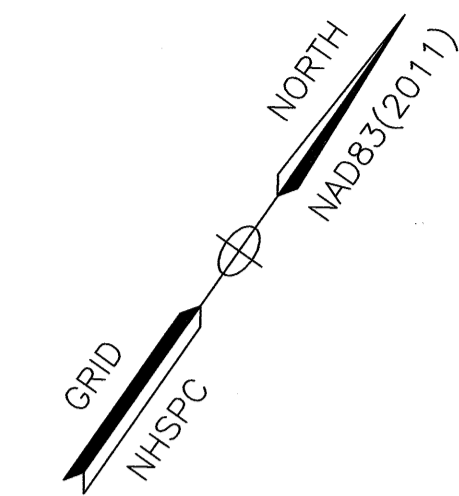
AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors

200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

NOTES:

- 1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 122 AS LOT 2.
- 2) OWNERS OF RECORD:
GREGORY J. MORNEAULT
AMANDA B. MORNEAULT
137 NORTHWEST STREET
PORTSMOUTH, N.H. 03801

APPLICANT:
DARRELL MOREAU
18 JACKSON HILL STREET
PORTSMOUTH, NH 03801
- 3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA (AE EL. 8) AS SHOWN ON FIRM PANEL 33015C0259F, EFFECTIVE DATE JANUARY 29, 2021. PARCEL IS PARTIALLY IN THE 2' EXTENDED FLOOD HAZARD ZONE.
- 4) EXISTING LOT AREA:
10,634 S.F.
0.2441 ACRES
- 5) THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS ON LOT 2-1 OF THE PROPOSED SUBDIVISION.
- 6) ZONING DISTRICTS:
GENERAL RESIDENCE A (GRA) AND HISTORIC DISTRICT.
- 7) DIMENSIONAL REQUIREMENTS:
LOT AREA: 7,500 S.F.
FRONTAGE: 100'
DEPTH: 70'
SETBACKS: FRONT: 15', SIDE: 10', REAR: 20'.
MAXIMUM STRUCTURE HEIGHT: 35'
MAXIMUM BUILDING COVERAGE: 25%
MINIMUM OPEN SPACE: 30%
- 8) PROPOSED LOT 2 DIMENSIONAL CALCULATIONS:
LOT AREA: 10,634 S.F.
FRONTAGE: 357'
DEPTH: 25.4 AVERAGE
- 9) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.



WETLAND NOTES:

- 1) THE HIGHEST OBSERVABLE TIDE LINE WAS DELINEATED BY STEVEN D. RIKER, CWS ON 10/26/2021 IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - A) U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JAN. 1987), AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH-CENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012.
 - B) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8.2, USDA-NRCS, 2018 AND (FOR DISTURBED SITES) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, NEIWPCC WETLANDS WORK GROUP (2019).
 - C) NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST (REGION 1). USFWS (MAY 1988).
 - D) CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES. USFW MANUAL FWS/OBS-79/31 (1997).
 - E) "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE" (1997). NEW HAMPSHIRE FISH AND GAME DEPARTMENT.
- 2) LINE LOCATION WAS FIELD LOCATED BY AMBIT ENGINEERING, INC.

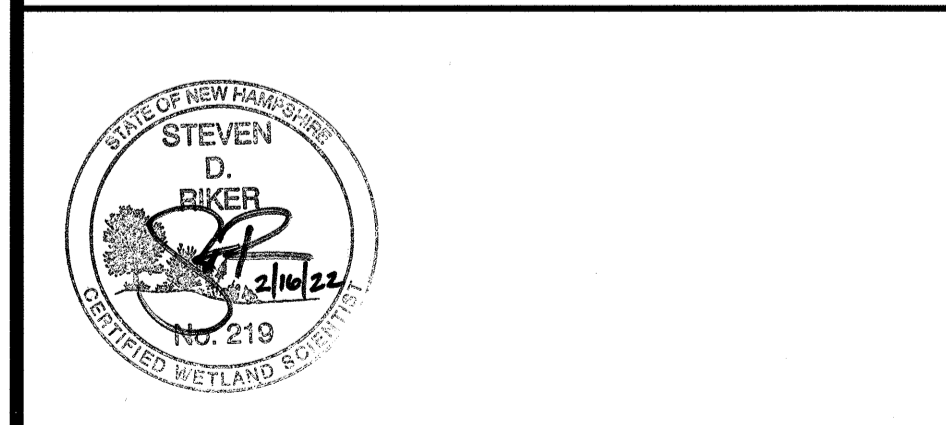
122
7
N/F
LARRY BOOZ
172 NORTHWEST STREET
PORTSMOUTH, NH 03801
5773/2064
D-14146

122
6
N/F
MARY A. MAHONEY
206 NORTHWEST STREET
PORTSMOUTH, NH 03801
5642/2411
D-3596

122
5
N/F
WILLIAM C. KENNETT
C/O RUTH KENNETT
239 NORTHWEST STREET
PORTSMOUTH, NH 03801
2304/1890

**PROPOSED HOUSING
TBD NORTHWEST ST.
PORTSMOUTH, NH**

NO.	DESCRIPTION	DATE
2	RIGHT OF WAY LINES	2/11/22
1	WET DELINEATION NOTE	1/27/21
0	ISSUED FOR COMMENT	8/23/21



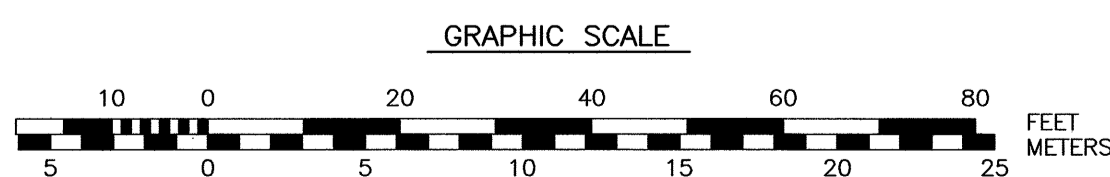
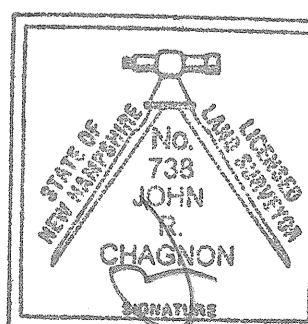
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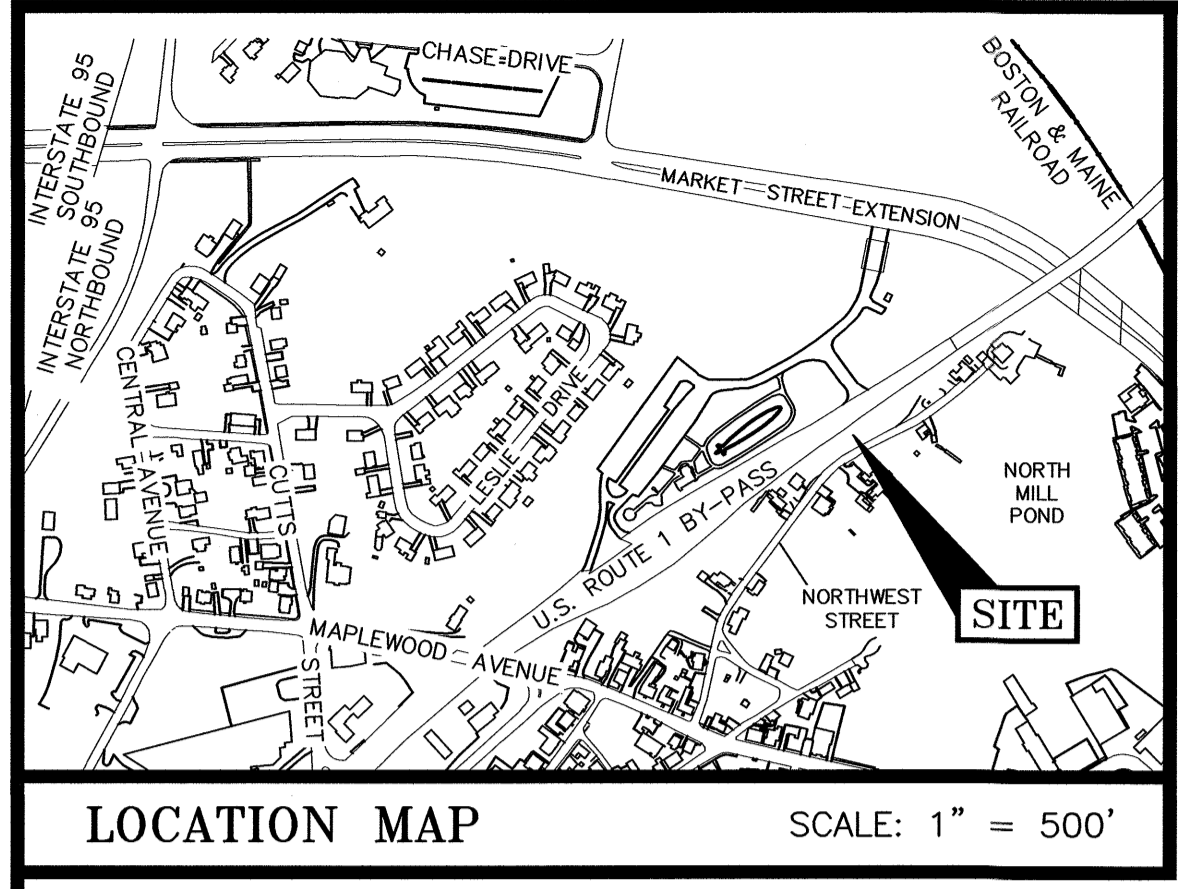
EXISTING CONDITIONS
PLAN- LOT 2-1

C1

"I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN ACCURACY OF THE CLOSED TRAVERSE THAT EXCEEDS THE PRECISION OF 1:15,000."

John R. Chagnon
JOHN R. CHAGNON, L.L.S. DATE: 2.11.22



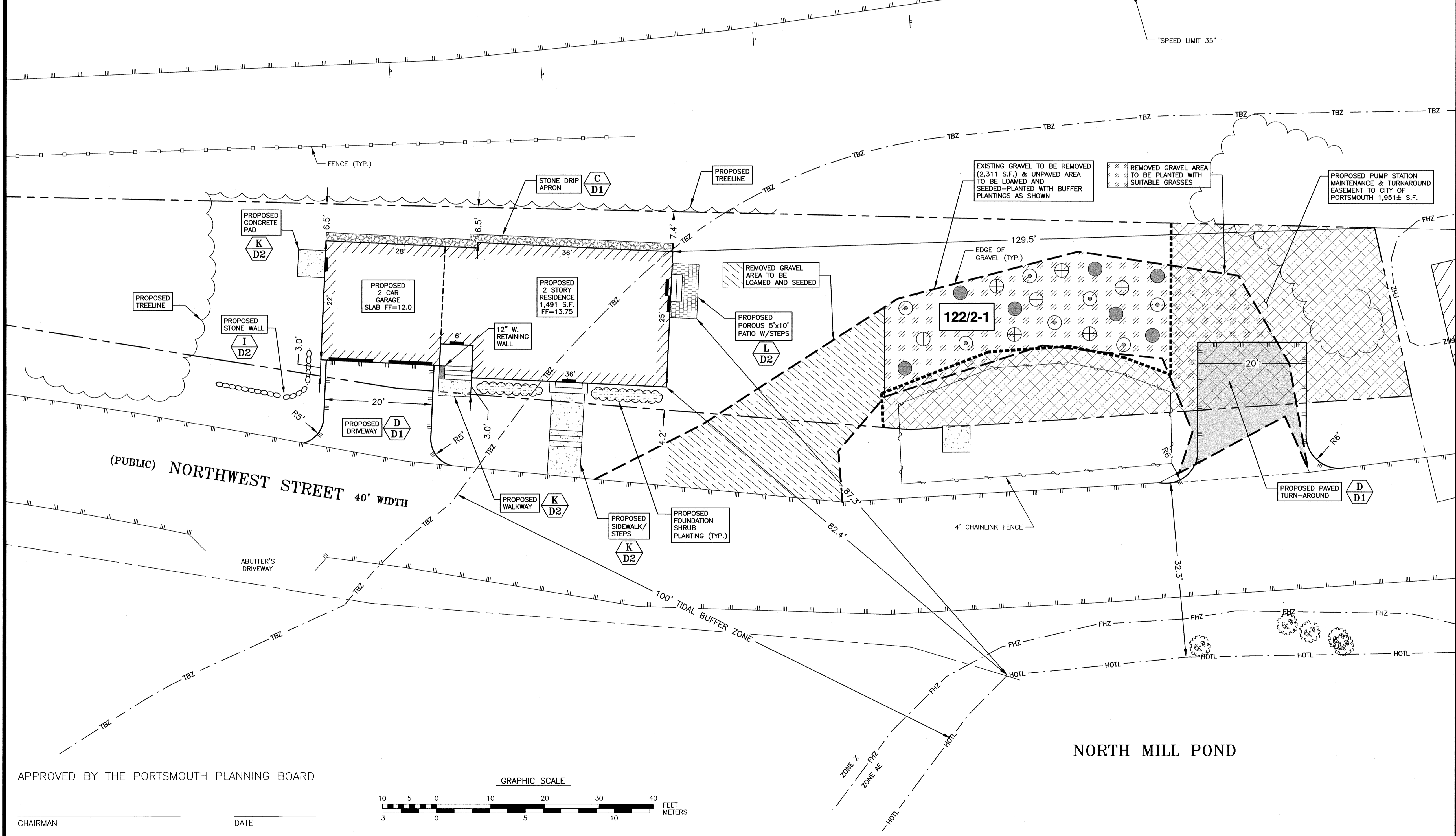
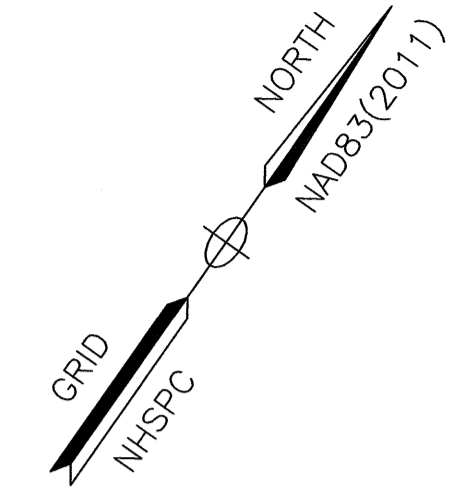


IMPERVIOUS SURFACE AREAS (TO PROPERTY LINE)		
STRUCTURE	*PRE-CONSTRUCTION IMPERVIOUS (S.F.)	POST-CONSTRUCTION IMPERVIOUS (S.F.)
MAIN STRUCTURE	0	1,491
STAIRS/STEPS	0	60
CONCRETE SLAB	0	25
PAVEMENT	0	319
GRAVEL	1692	0
WALKWAY	0	25
RETAINING/STONE WALL	0	8
TOTAL	1,692	1,928
LOT SIZE	10,634	10,634
% LOT COVERAGE	15.9%	18.1%

*NOTE: PUMP STATION & CONTROLS NOT INCLUDED.

BUFFER PLANTING SCHEDULE			
SYMBOL	ITEM	SIZE	QTY
●	CLETHRA ALNIFOLIA	3-4 GALLON	7
○	SWEET PEPPERBUSH	3-4 GALLON	7
⊕	MYRICA PENSYLVANICA	3-4 GALLON	7
	NORTHERN BAYBERRY	3-4 GALLON	7
	VIBURNUM RECOGNITUM	3-4 GALLON	7
	NORTHERN ARROWOOD	3-4 GALLON	7
	MEADOW SWEET	3-4 GALLON	7

ROUTE ONE BY-PASS
(NORTHBOUND LANE)



AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

- NOTES:**
- 1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 122 AS LOT 2.
 - 2) OWNERS OF RECORD:
GREGORY J. MORNEAULT
AMANDA B. MORNEAULT
137 NORTHWEST STREET
PORTSMOUTH, N.H. 03801

APPLICANT:
DARRELL MOREAU
1B JACKSON HILL STREET
PORTSMOUTH, NH 03801
 - 3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA (AE EL 8) AS SHOWN ON FIRM PANEL 33015C0259F, EFFECTIVE DATE JANUARY 29, 2021. PARCEL IS PARTIALLY IN THE 2' EXTENDED FLOOD HAZARD ZONE.
 - 4) EXISTING LOT AREA:
10,634 S.F.
0.2441 ACRES
 - 5) THE PURPOSE OF THIS PLAN IS TO SHOW THE PLACEMENT OF A PROPOSED RESIDENCE ON LOT 2 OF THE PROPOSED SUBDIVISION.
 - 6) ZONING DISTRICTS:
GENERAL RESIDENCE A (GRA) AND HISTORIC DISTRICT.
 - 7) DIMENSIONAL REQUIREMENTS:
LOT AREA: 7,500 S.F.
FRONTAGE: 100'
DEPTH: 70'
SETBACKS: FRONT: 15', SIDE: 10', REAR: 20'.
MAXIMUM STRUCTURE HEIGHT: 35'
MAXIMUM BUILDING COVERAGE: 25%
MINIMUM OPEN SPACE: 30%
 - 8) PROPOSED LOT 2 DIMENSIONAL CALCULATIONS:
LOT AREA: 10,634 S.F.
FRONTAGE: 357'
DEPTH: 25.4 AVERAGE

SETBACKS:
FRONT: 3.0'
SIDE: 129.5'
REAR: 6.5'

STRUCTURE HEIGHT: <35'
BUILDING COVERAGE: 1,527 S.F. (14%)
OPEN SPACE: 8,706 S.F. (82%)
 - 9) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
 - 10) PLANTING & MAINTENANCE SHALL BE IN ACCORDANCE WITH NOFA STANDARDS FOR ORGANIC LAND CARE.

**PROPOSED HOUSING
TBD NORTHWEST ST.
PORTSMOUTH, NH**

NO.	DESCRIPTION	DATE
2	BUILDING LOCATION	1/3/22
1	BUILDING, DRIVEWAY, STONEWALL, PLANTING	10/27/21
0	ISSUED FOR COMMENT	8/23/21

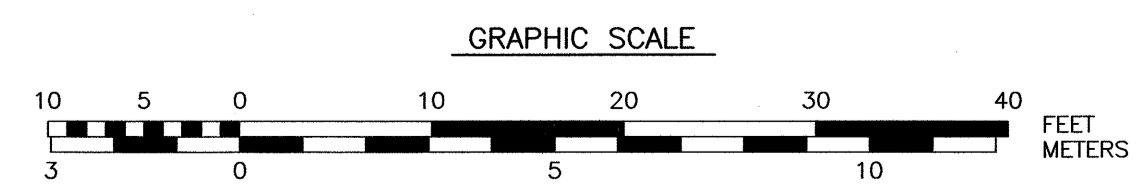
REVISIONS

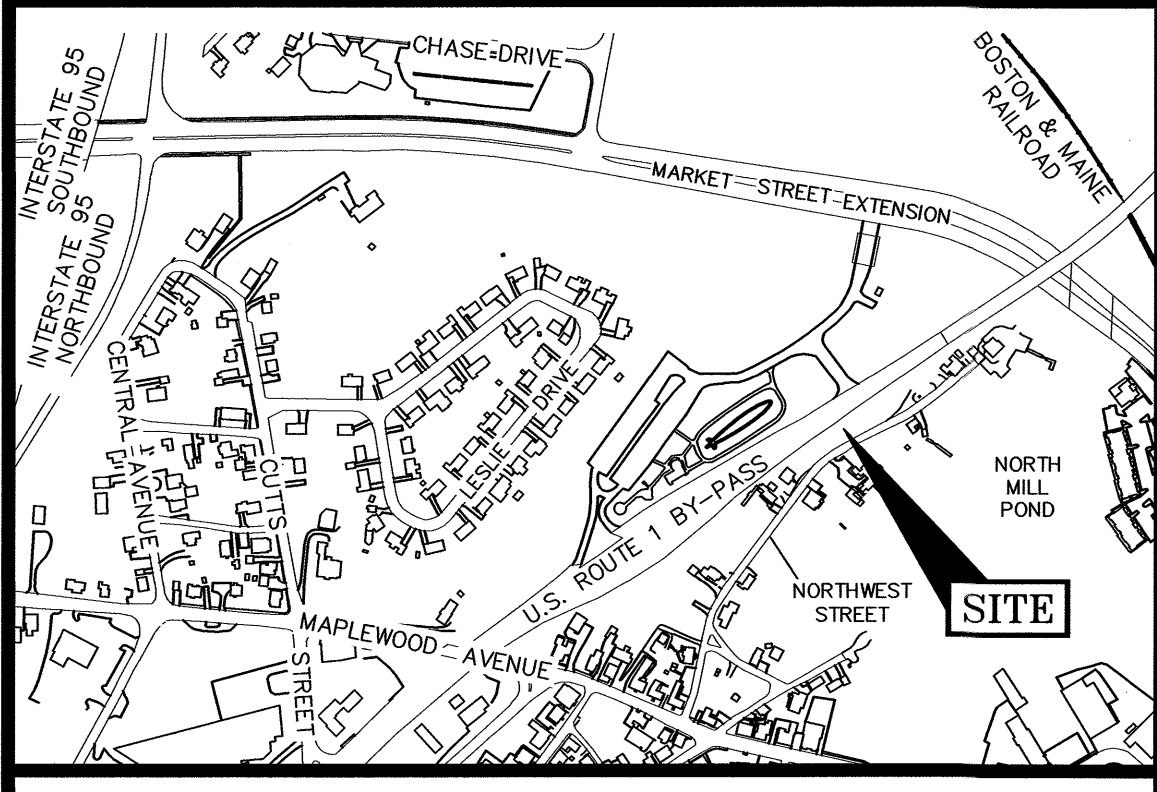
SCALE 1" = 10' JUNE 2021

SUBDIVISION SITE
PLAN- LOT 2-1 **C2**

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____

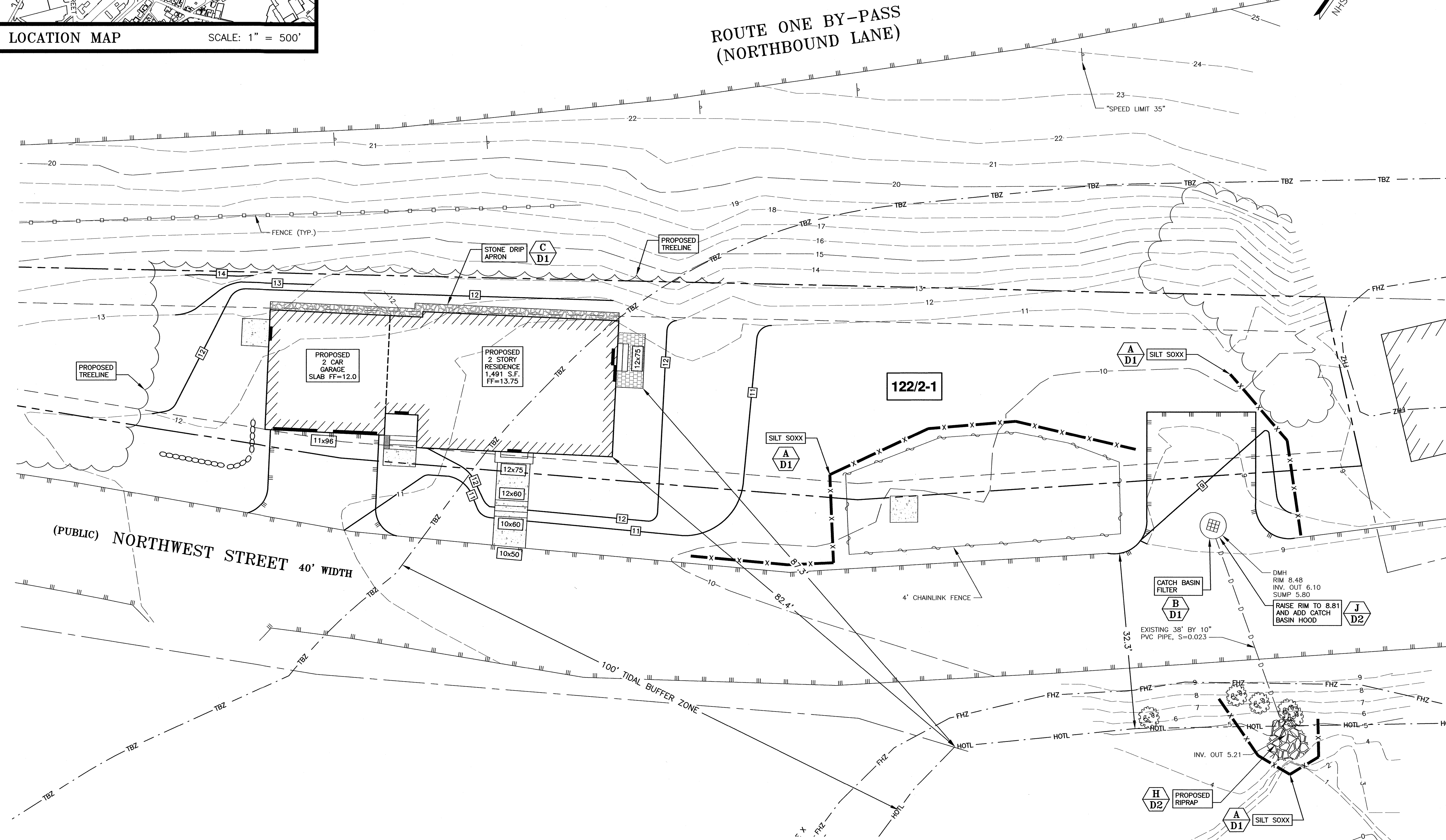
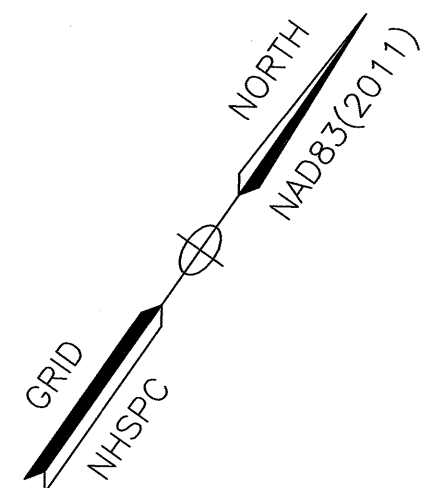




LOCATION MAP SCALE: 1" = 500'

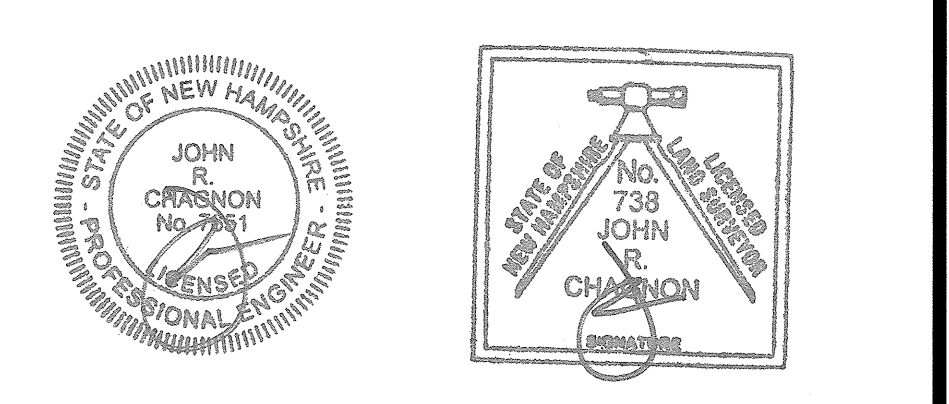
- NOTES:**
- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.
 - 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
 - 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008)".

**ROUTE ONE BY-PASS
(NORTHBOUND LANE)**

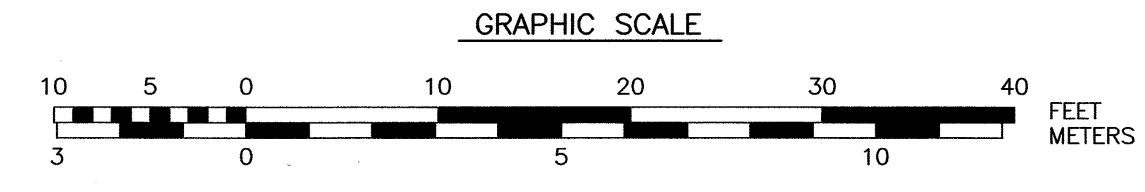


**PROPOSED HOUSING
TBD NORTHWEST ST.
PORTSMOUTH, NH**

NO.	DESCRIPTION	DATE
3	STRUCTURE LOCATION	1/3/22
2	STRUCTURE, DRIVEWAY, TREETLINE, STONE WALL	10/27/21
1	RIPRAP	8/25/21
0	ISSUED FOR COMMENT	8/23/21



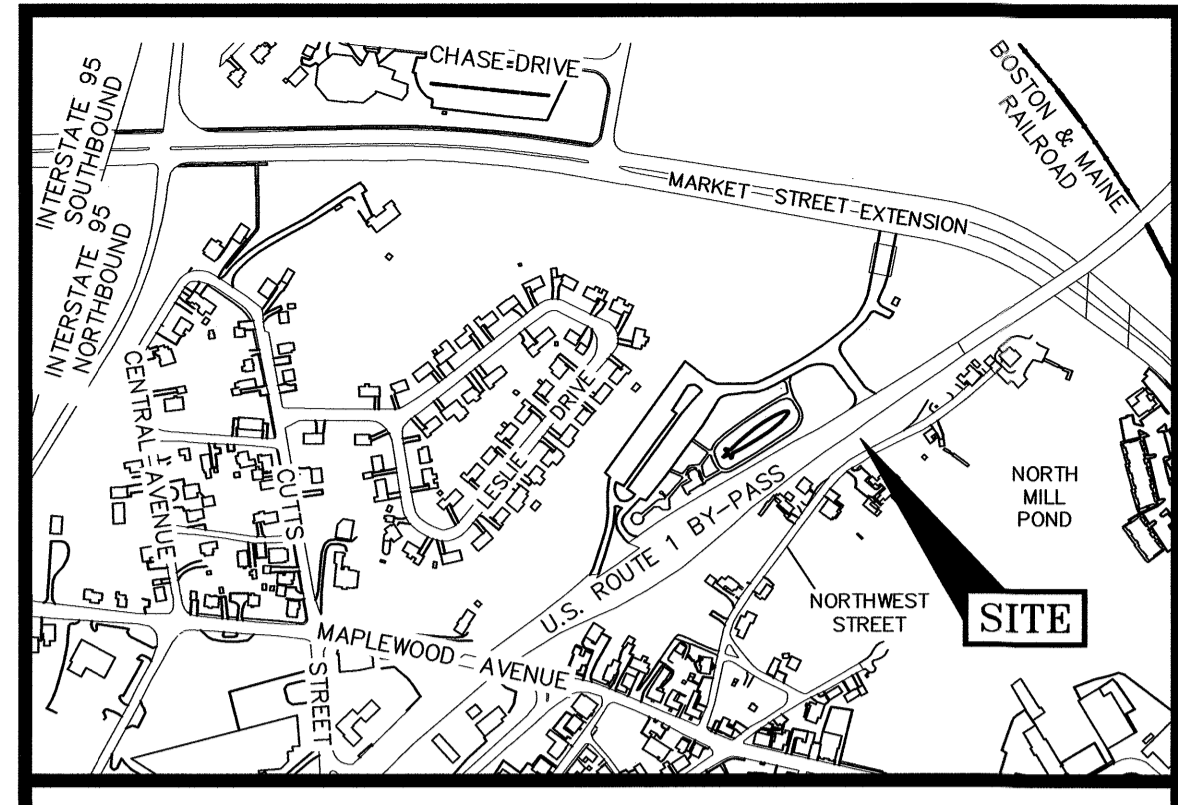
APPROVED BY THE PORTSMOUTH PLANNING BOARD
 CHAIRMAN _____ DATE _____



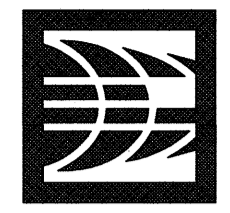
SCALE 1" = 10' JUNE 2021

**EROSION CONTROL
& GRADING PLAN-
LOT 2-1**

C3



LOCATION MAP SCALE: 1" = 500'

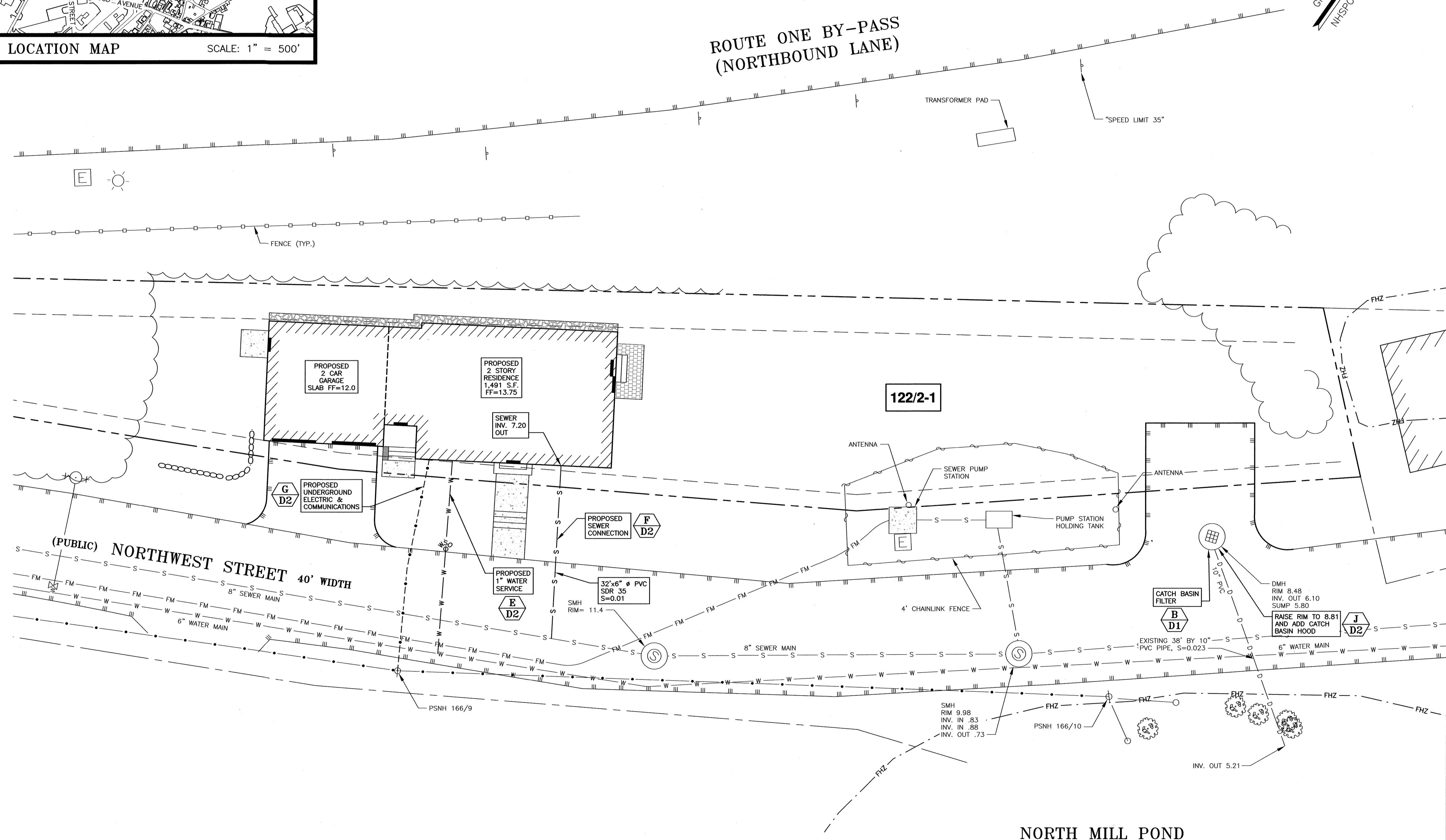
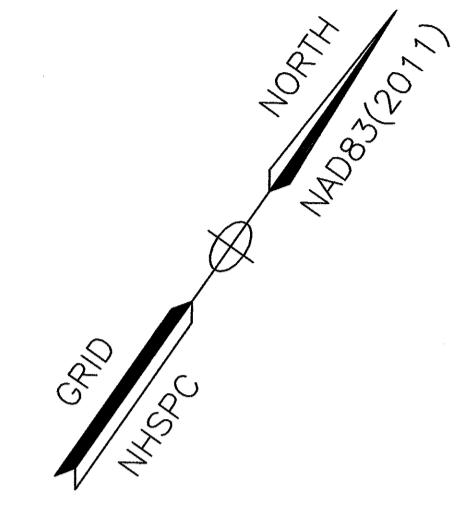


AMBIT ENGINEERING, INC.
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NOTES:

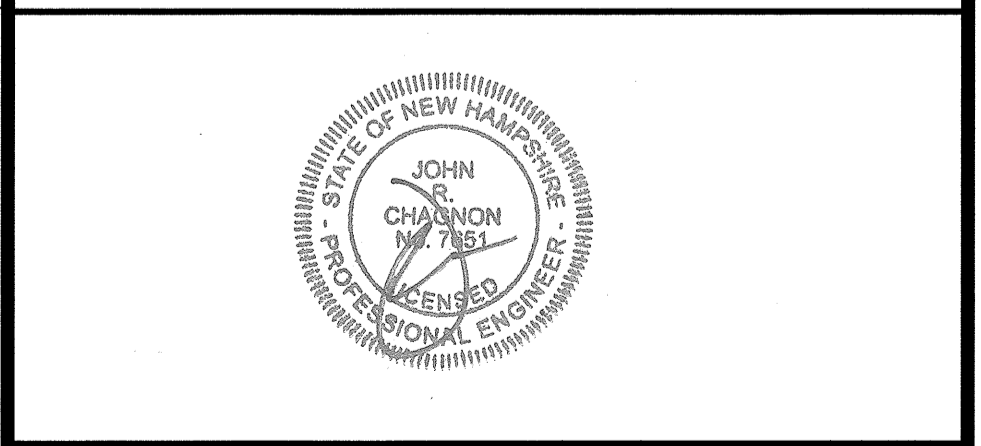
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- 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
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**ROUTE ONE BY-PASS
 (NORTHBOUND LANE)**



**PROPOSED HOUSING
 TBD NORTHWEST ST.
 PORTSMOUTH, NH**

NO.	DESCRIPTION	DATE
2	STRUCTURE LOCATION	1/3/22
1	WATER SERVICE SIZE	10/27/21
0	ISSUED FOR COMMENT	8/23/21

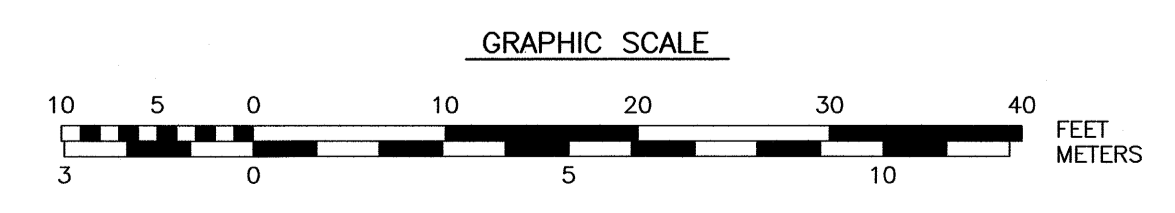


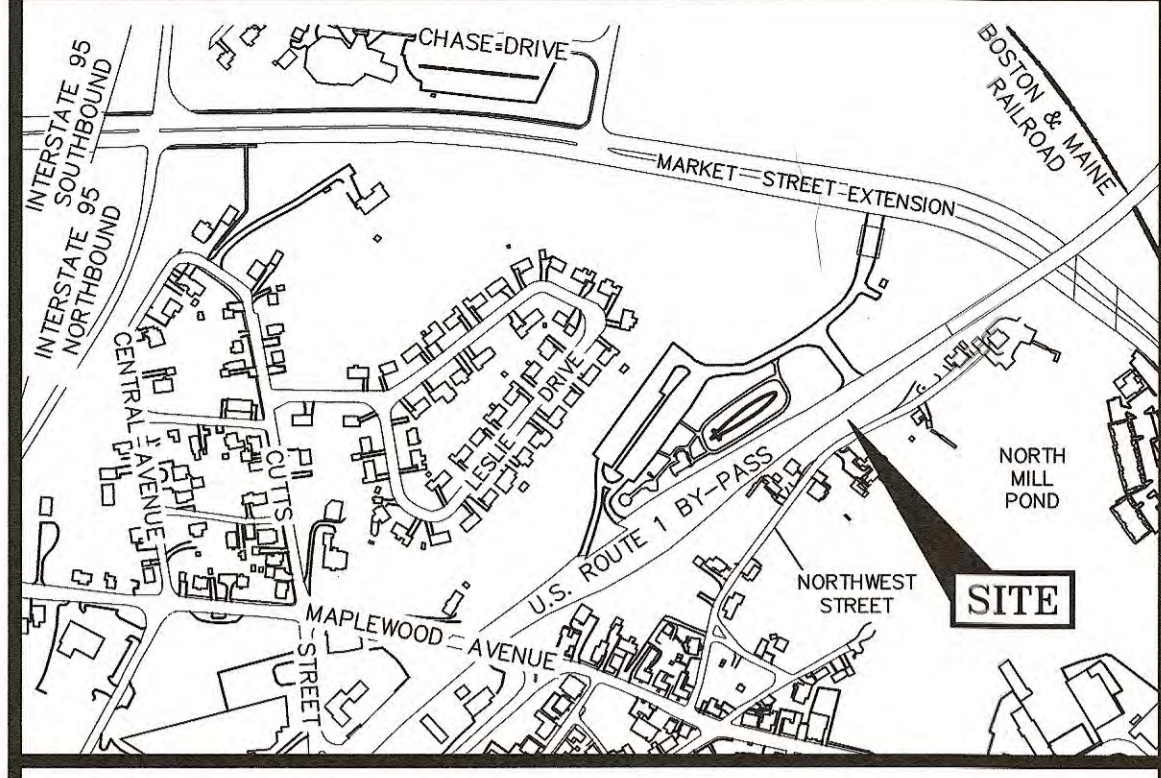
SCALE 1" = 10' JUNE 2021

**UTILITY PLAN-
 LOT 2-1** **C4**

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____





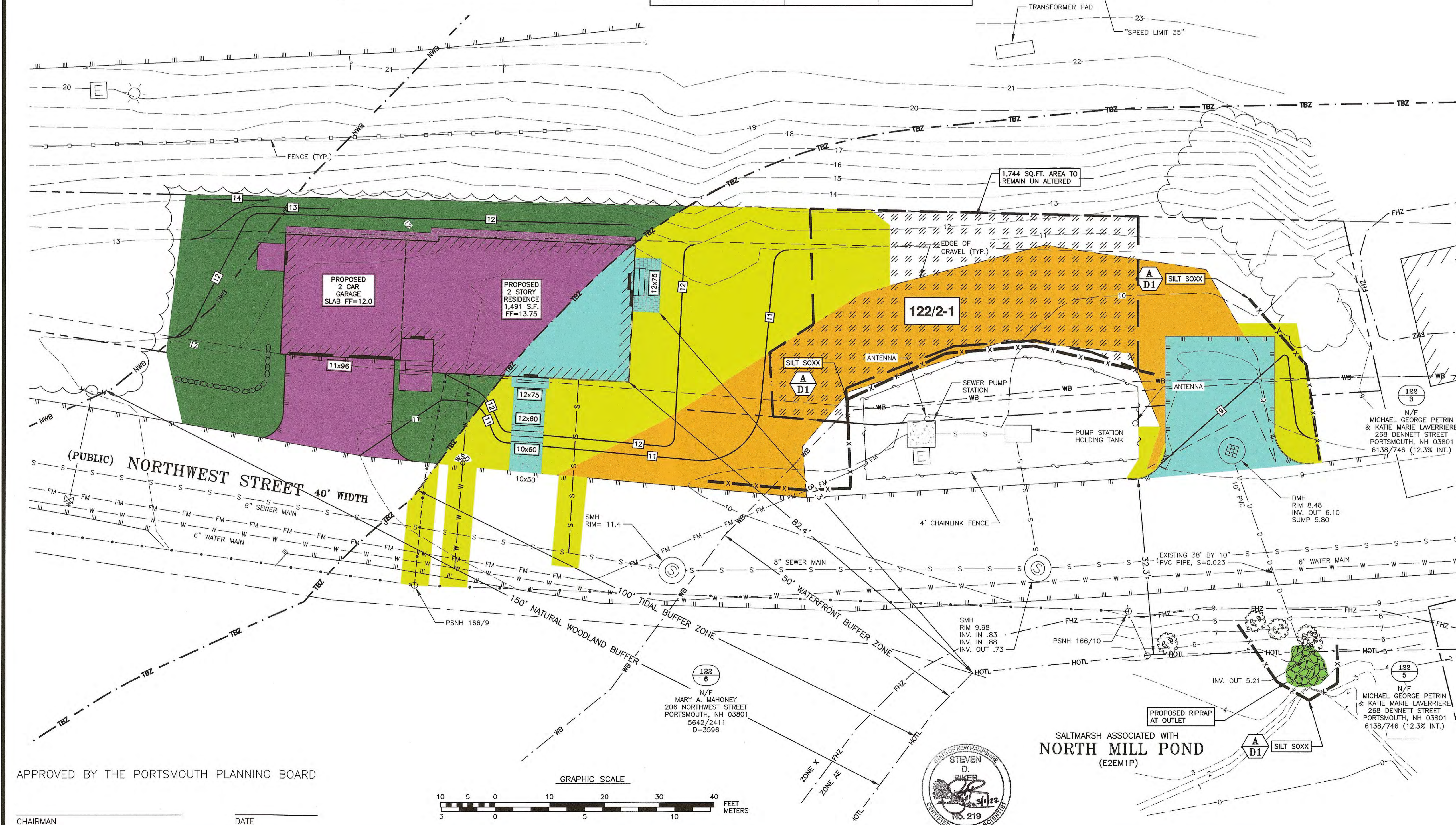
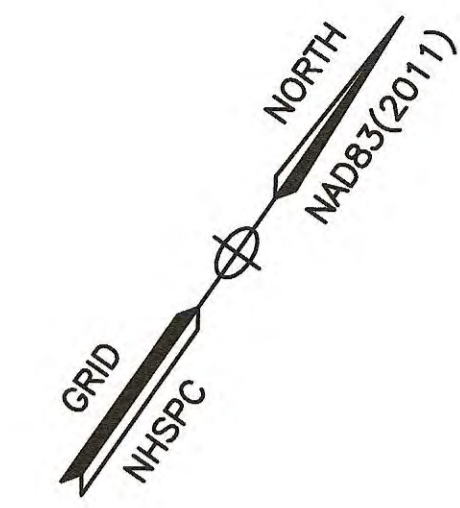
LOCATION MAP SCALE: 1" = 500'

IMPERVIOUS SURFACE AREAS (WITHIN 250' PROTECTED SHORELAND)		
STRUCTURE	*PRE-CONSTRUCTION IMPERVIOUS (S.F.)	POST-CONSTRUCTION IMPERVIOUS (S.F.)
MAIN STRUCTURE	0	1,491
STAIRS/STEPS	0	60
CONCRETE SLAB	0	25
PAVEMENT	0	319
GRAVEL	1692	0
WALKWAY	0	25
RETAINING/STONE WALL	0	8
TOTAL	1,692	1,928
LOT SIZE	10,634	10,634
% LOT COVERAGE	15.9%	18.1%

*NOTE: PUMP STATION & CONTROLS NOT INCLUDED.

NH DES IMPACT AREAS		
STRUCTURE	COLOR	PROPOSED (S.F.)
IMPERVIOUS: GRAVEL-TO BE REMOVED (TBZ TEMPORARY IMPACT)	Orange	1,995
PROPOSED STRUCTURE & PAVEMENT (TBZ PERMANENT IMPACT)	Light Blue	978
PROPOSED RIPRAP (SALTMARSH PERMANENT IMPACT)	Light Green	45
TEMPORARY IMPACT AREAS (TBZ)	Yellow	1,917
TOTAL (TBZ) IMPACT AREA		4,890
SHORELAND ZONE PERMANENT IMPACT	Purple	1,710
SHORELAND ZONE TEMPORARY IMPACT	Dark Green	1,419
TOTAL SHORELAND IMPACT		3,129

U.S. ROUTE ONE BY-PASS
MAINE - N.H. INTERSTATE BRIDGE AUTHORITY



AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Griffin Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 430-9282
Fax (603) 436-2315

- NOTES:**
- 1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 122 AS LOT 2.
 - 2) OWNERS OF RECORD:
GREGORY J. MORNEAULT
AMANDA B. MORNEAULT
137 NORTHWEST STREET
PORTSMOUTH, N.H. 03801

APPLICANT:
DARRELL MOREAU
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PORTSMOUTH, NH 03801
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 - 4) EXISTING LOT AREA:
10,634 S.F.
0.2441 ACRES
 - 5) THE PURPOSE OF THIS PLAN IS TO SHOW THE PLACEMENT OF A PROPOSED RESIDENCE ON LOT 2 OF THE PROPOSED SUBDIVISION.
 - 6) ZONING DISTRICTS:
GENERAL RESIDENCE A (GRA) AND HISTORIC DISTRICT.
 - 7) DIMENSIONAL REQUIREMENTS:
LOT AREA: 7,500 S.F.
FRONTAGE: 100'
DEPTH: 70'
SETBACKS: FRONT: 15', SIDE: 10', REAR: 20'.
MAXIMUM STRUCTURE HEIGHT: 35'
MAXIMUM BUILDING COVERAGE: 25%
MINIMUM OPEN SPACE: 30%
 - 8) PROPOSED LOT 2 DIMENSIONAL CALCULATIONS:
LOT AREA: 10,634 S.F.
FRONTAGE: 357'
DEPTH: 25.4 AVERAGE
SETBACKS:
FRONT: 3.0'
SIDE: 129.5'
REAR: 6.5'
STRUCTURE HEIGHT: <35'
BUILDING COVERAGE: 1,527 S.F. (14%)
OPEN SPACE: 8,706 S.F. (82%)
 - 9) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.

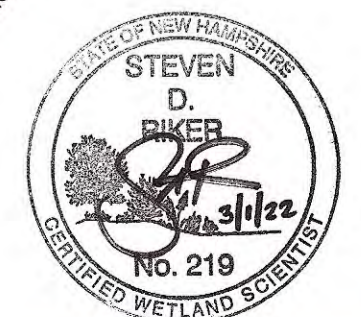
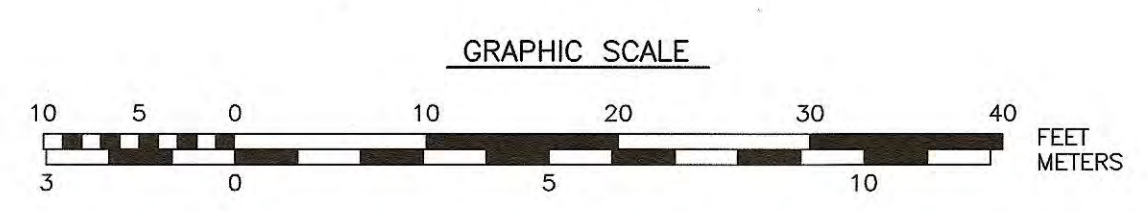
**PROPOSED HOUSING
TBD NORTHWEST ST.
PORTSMOUTH, NH**

NO.	DESCRIPTION	DATE
2	ADD UNALTERED AREA	2/23/22
1	REVISE ABUTTERS	2/17/22
0	ISSUED FOR COMMENT	2/1/22

REVISIONS

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____



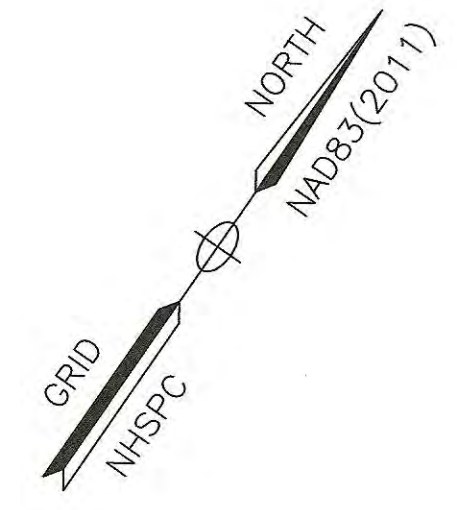
SCALE 1" = 10' JUNE 2021

NHDES PERMIT PLAN

C5

NOTES:

- 1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 122 AS LOT 2.
- 2) OWNERS OF RECORD:
 GREGORY J. MORNEAULT
 AMANDA B. MORNEAULT
 137 NORTHWEST STREET
 PORTSMOUTH, N.H. 03801
 APPLICANT:
 DARRELL MOREAU
 1B JACKSON HILL STREET
 PORTSMOUTH, NH 03801
- 3) THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED SITE DEVELOPMENT IN CONTEXT TO THE NEIGHBORHOOD.



**PROPOSED HOUSING
 TBD NORTHWEST ST.
 PORTSMOUTH, NH**

NO.	DESCRIPTION	DATE
1	STRUCTURE LOCATION	1/3/22
0	ISSUED FOR COMMENT	10/27/21
REVISIONS		

SCALE 1" = 30'	JUNE 2021
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NEIGHBORHOOD PLAN-AERIAL	P1
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J:\03801\0701\01\2759.02\2759.02.dwg 2759.02.dwg 10/27/21 10:00 AM 10/27/21 10:00 AM 10/27/21 10:00 AM

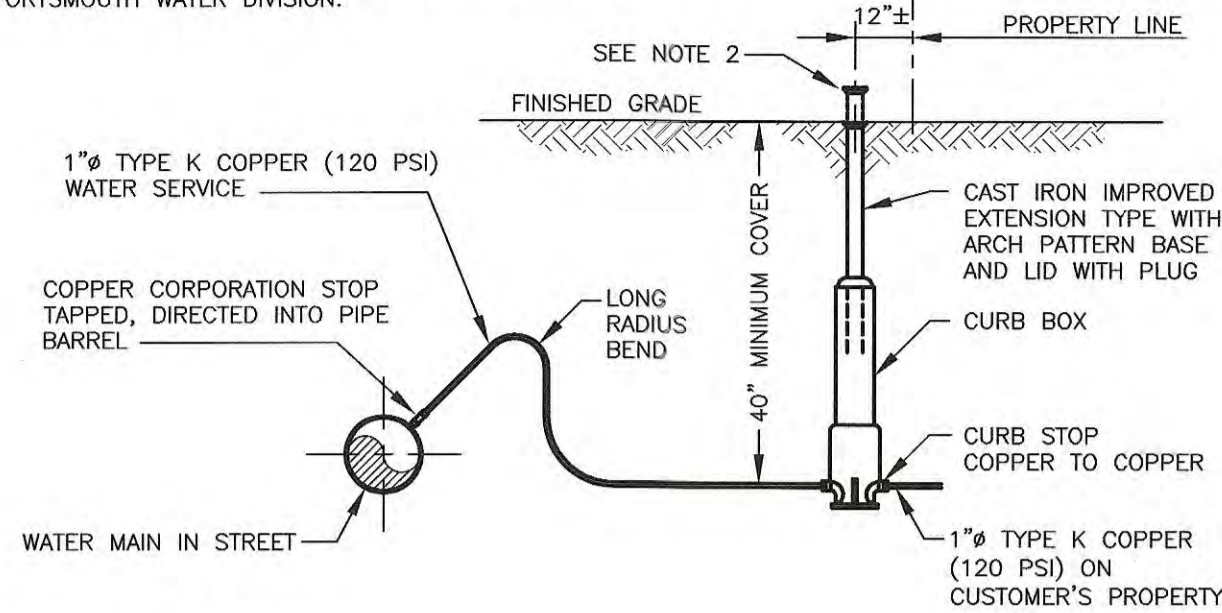


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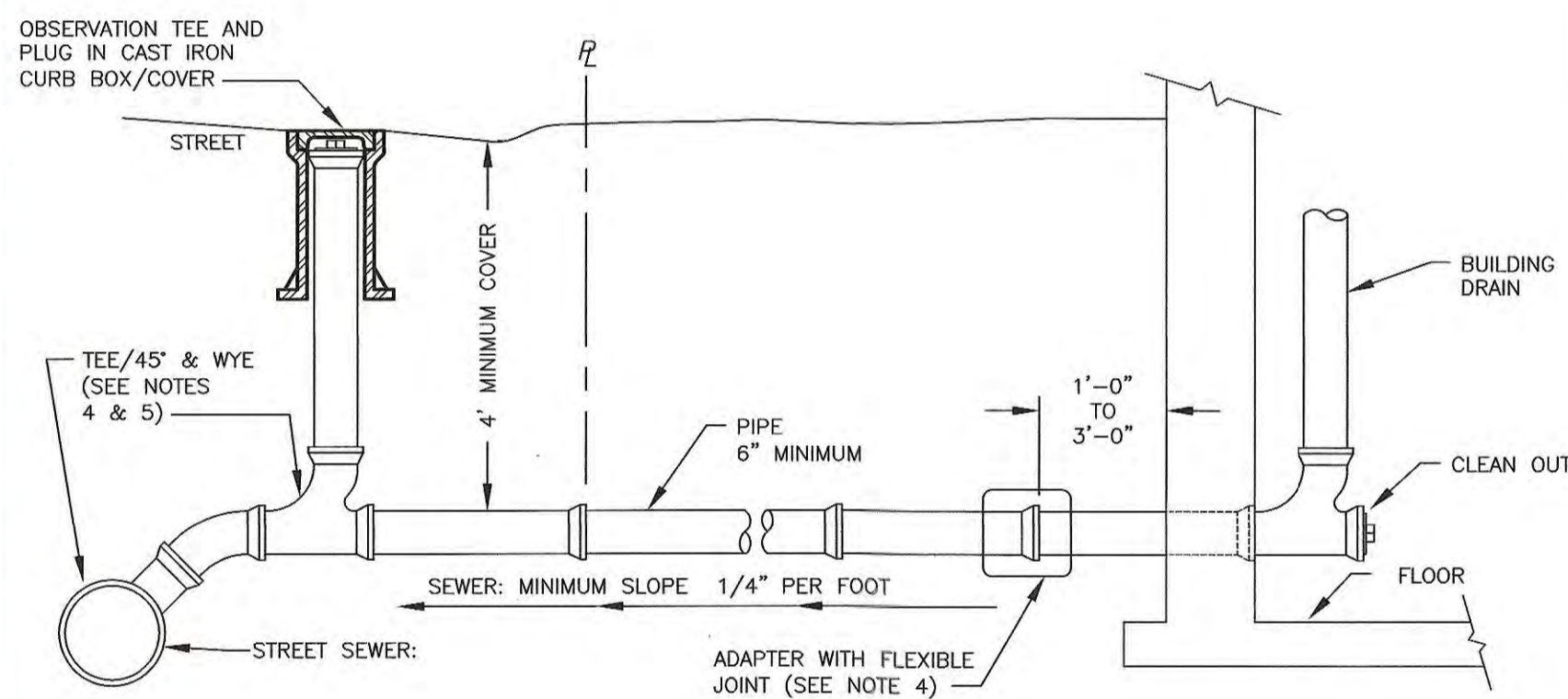
NOTES:

- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN THIRTY DAYS.
- 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
- 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).
- 4) PURSUANT TO RSA 483-B:9 11 (D), NO FERTILIZER SHALL BE APPLIED TO VEGETATION OR SOILS LOCATED WITHIN 25 FEET OF THE REFERENCE LINE OF ANY PUBLIC WATER. BEYOND 25 FEET, SLOW OR CONTROLLED RELEASE FERTILIZER MAY BE USED. SLOW RELEASE NITROGEN MUST CONTAIN NO MORE THAN 2% PHOSPHORUS, AND A NITROGEN COMPONENT WHICH IS AT LEAST 50% SLOW RELEASE NITROGEN COMPONENTS.
- 5) PURSUANT TO RSA 483-B:9, V (A) (2) (A), NO CHEMICALS INCLUDING PESTICIDES OR HERBICIDES OF ANY KIND, SHALL BE APPLIED TO GROUND, TURF, OR ESTABLISHED VEGETATION WITHIN THE WATERFRONT BUFFER, EXCEPT IF APPLIED BY HORTICULTURE PROFESSIONAL WHO HAVE AN APPLICATION LICENSE OR AS ALLOWED BY SPECIAL PERMIT ISSUED UNDER RSA 541-A. NO CALCIUM CHLORIDE SHALL BE APPLIED WITHIN THE WATERFRONT BUFFER.

- NOTE:
1) INSTALLATION OF WATER MAIN TAP & CURB STOP & BOX SHALL ONLY BE PERFORMED BY THOSE AUTHORIZED BY THE PUBLIC WORKS DEPARTMENT.
2) IN AREAS OF HEAVY GROWTH THE CURB BOX COVER SHALL BE SET 6" ABOVE FINISH GRADE AND A WITNESS STAKE SET.
3) CURB BOX SHALL BE SET APPROXIMATELY 12" OUTSIDE PROPERTY LINE AS SHOWN.
4) PRIOR TO ACCEPTANCE, A PLAN INDICATING THE LOCATION OF THE CURB BOX SHALL BE SUBMITTED TO THE CITY OF PORTSMOUTH WATER DIVISION.

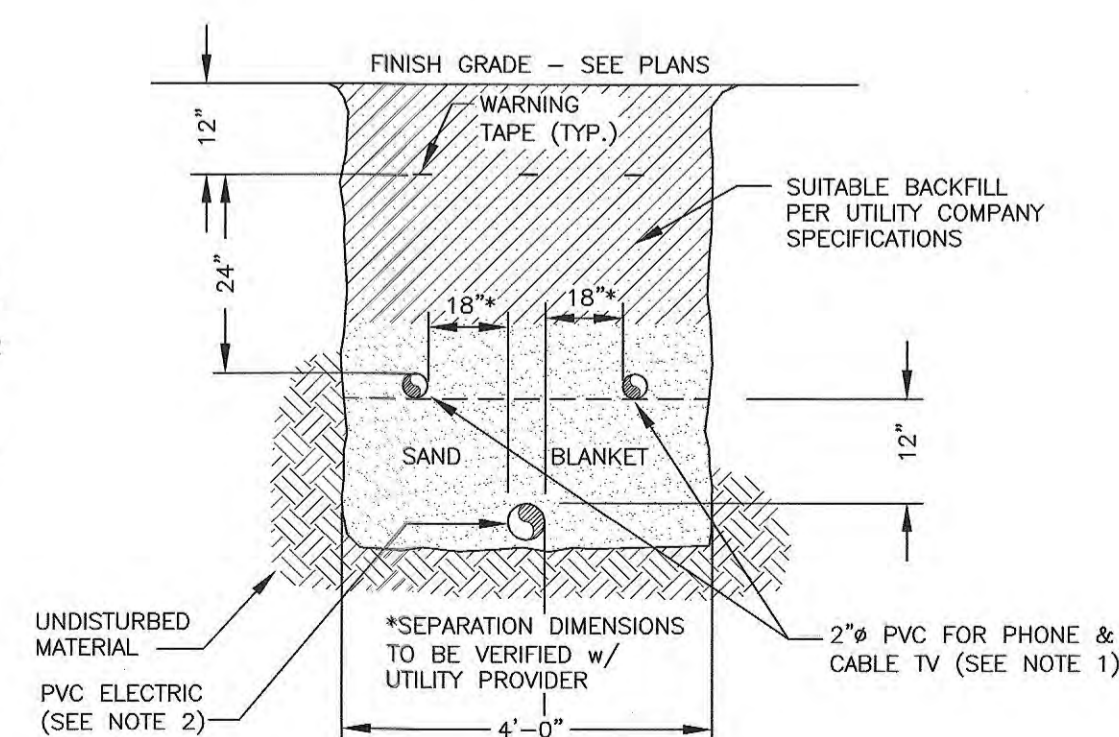


E C4 WATER SERVICE CONNECTION (PORTSMOUTH) NTS

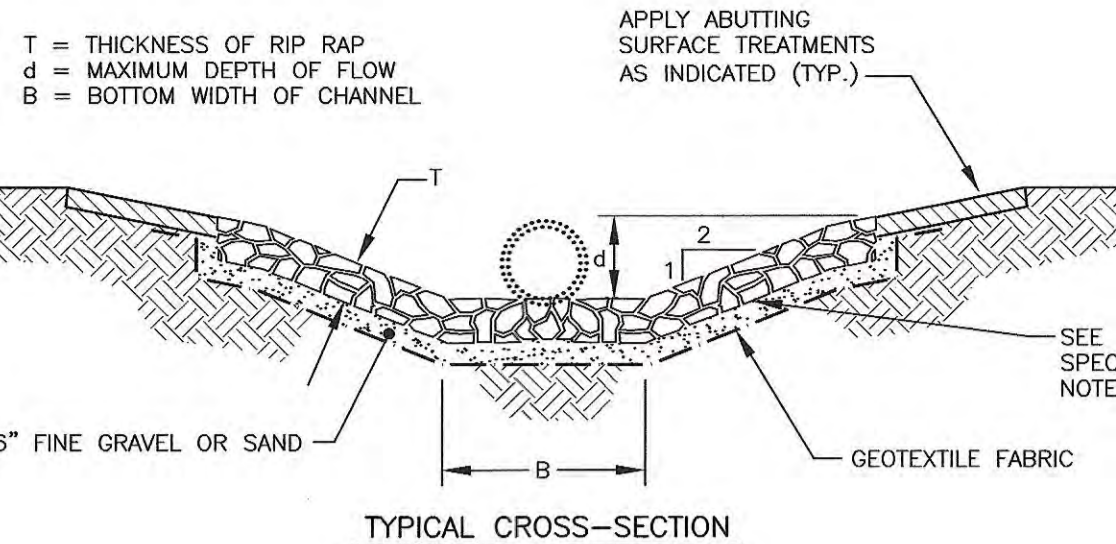


F C4 SEWER SERVICE DETAILS INSTALL PER PORTSMOUTH REQUIREMENTS NTS

- NOTES:
1) ALL CONDUIT TO BE U.L. LISTED, SCH. 80 UNDER ALL TRAVEL WAYS, & SCHED. 40 FOR THE REMAINDER.
2) NORMAL CONDUIT SIZES FOR PSNH ARE 3 INCH FOR SINGLE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4 INCH FOR THREE PHASE SECONDARY, AND 5 INCH FOR THREE PHASE PRIMARY.
3) ALL WORK TO CONFORM TO THE NATIONAL ELECTRICAL CODE (LATEST REVISION)
4) INSTALL A 200# PULL ROPE FOR EACH CONDUIT
5) VERIFY ALL CONDUIT SPECIFICATIONS WITH UTILITY COMPANY'S PRIOR TO ANY CONSTRUCTION.



G C4 BURIED ELEC/COMM CABLE NTS



H C3 RIP RAP LINED OUTLET NTS



- NOTES:
1) EXISTING CATCH BASIN (SEE SHEET C4) TO HAVE "ELIMINATOR" OIL AND FLOATING DEBRIS TRAP INSTALLED.
2) MANUFACTURED BY KLEANSTREAM (NO EQUAL).
3) INSTALL DEBRIS TRAP TIGHT TO INSIDE OF STRUCTURE.
4) 1/2" HOLE SHALL BE DRILLED IN TOP OF DEBRIS TRAP.

J C3 "ELIMINATOR" OIL & FLOATING DEBRIS TRAP NTS

RIPRAP GRADATION TABLE

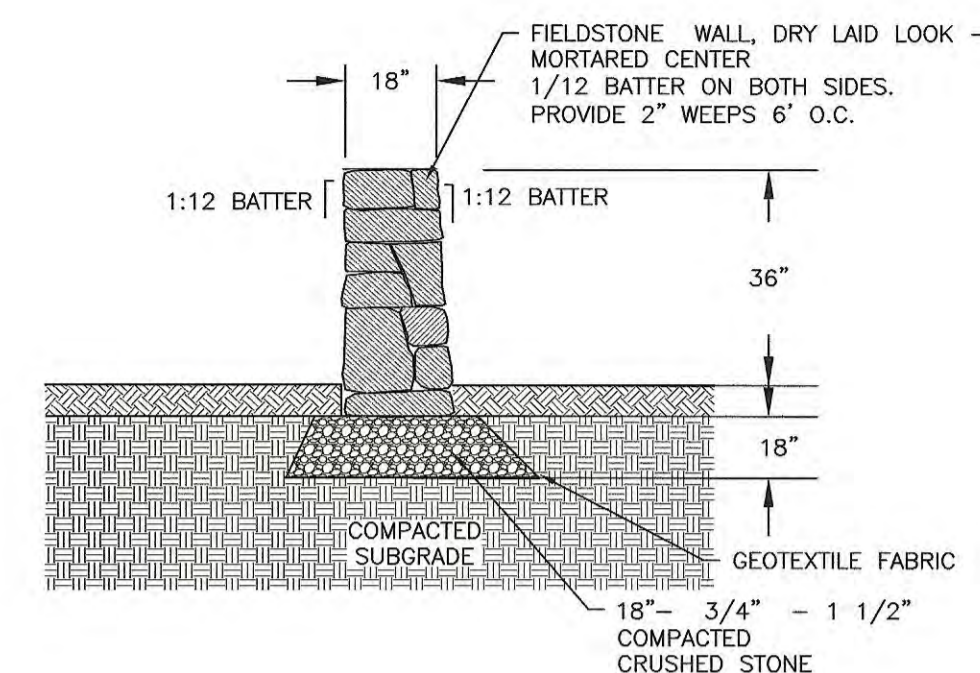
RIPRAP - 9"	
% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE RANGE IN INCHES
d100	18
d50	8.5 TO 10.5
d15	5.5 TO 7.8

MATERIALS SPECIFICATIONS:

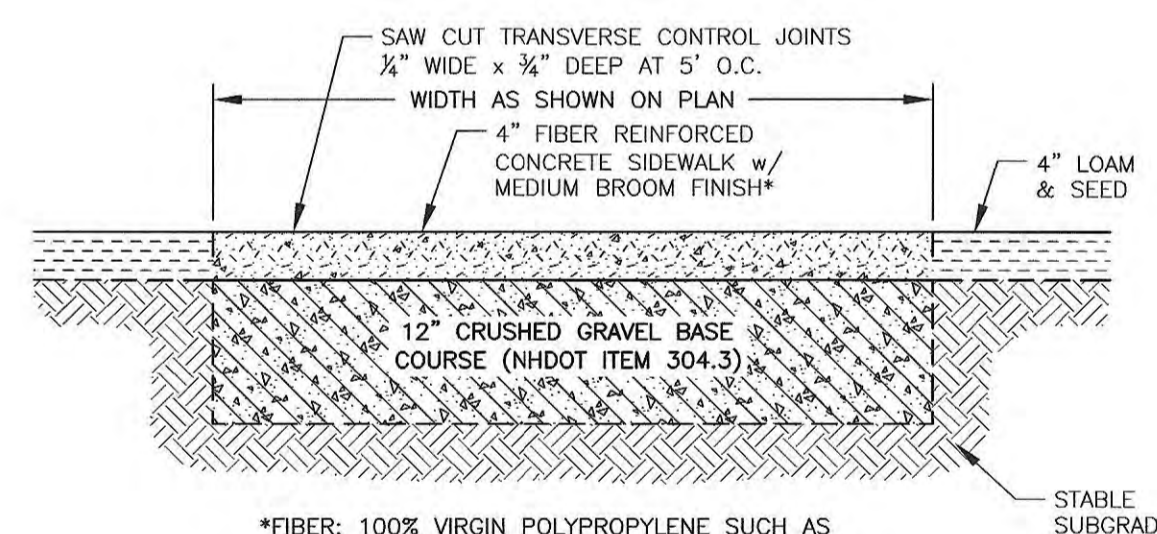
- 1) GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF NEW HAMPSHIRE STORM WATER MANAGEMENT AND EROSION CONTROL HANDBOOK BMP FOR ROCK RIP RAP.
- 2) ANCHOR PINS: STEEL PINS WITH WASHERS OR WOODEN STAKES SHALL BE PLACED TO HOLD GEOTEXTILE FABRIC IN POSITION PER MANUFACTURER'S RECOMMENDATIONS.
- 3) GRAVEL BLANKET: UNIFORMLY GRADED SCREENED GRAVEL (3/8" TO 1-1/2")
- 4) RIP RAP: NHDOT CLASS D.

- CONSTRUCTION SPECIFICATIONS:**
- 1) THE SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC AND RIP RAP SHALL BE CLEARED AND GRUBBED TO REMOVE ALL ROOTS, VEGETATION, AND DEBRIS AND PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS. THE EXISTING RETAINING WALL SHALL BE REMOVED.
 - 2) EXCAVATE ANCHOR TRENCH, PLACE STABILIZATION FABRIC AND SECURE TO SUBGRADE WITH ANCHOR PINS. BACKFILL ANCHOR TRENCH WITH COMPACTED NATIVE SUBGRADE SOIL. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING PLACEMENT OF THE ROCK RIP RAP BY PLACING A CUSHION OF GRAVEL OVER THE FABRIC. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIR OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
 - 3) SPREAD GRAVEL BLANKET UNIFORMLY TO DEPTH INDICATED.
 - 4) RIP RAP: PLACE RIP RAP IMMEDIATELY FOLLOWING GRAVEL BLANKET INSTALLATION. LAY RIP RAP STONES INDIVIDUALLY UPWARD FROM THE TOE OF THE SLOPE, WITH LARGER STONES AT THE TOE OF THE SLOPE. FILL VOIDS WITH SPALLS. FINISHED SURFACE TO BE REASONABLY UNIFORM IN APPEARANCE AND APPROXIMATELY PARALLEL TO AND WITHIN 6" OF THE LINES AND GRADES SHOWN OR ORDERED.

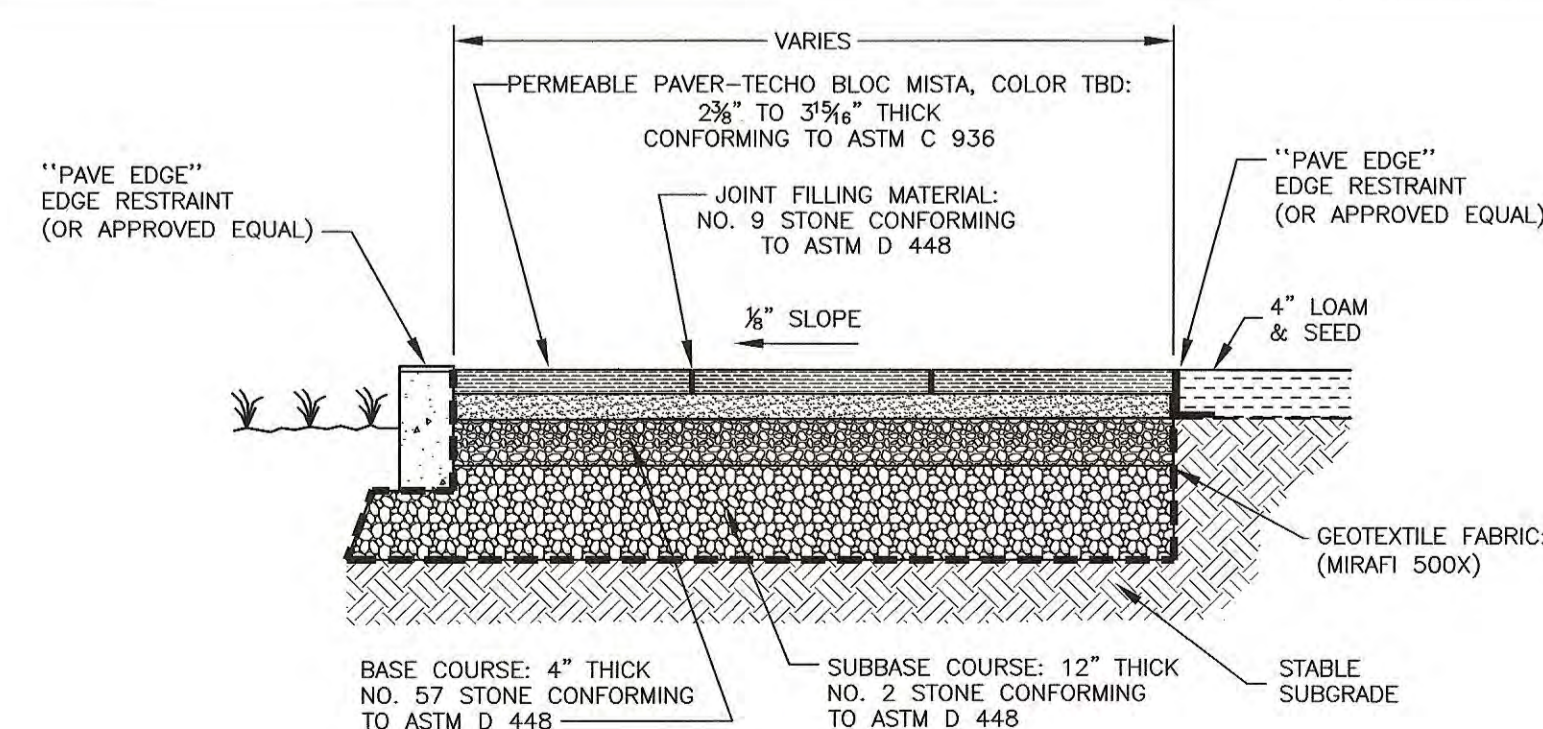
THE ROCK USED FOR RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE NHDOT CLASS D, CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT DISPLACEMENT OF THE UNDERLYING MATERIALS. HAND PLACEMENT MAY BE REQUIRED TO PREVENT DAMAGE TO ANY ADJACENT AREAS. STONES FOR RIP RAP SHALL BE ANGULAR OR SUBANGULAR. THE STONES SHOULD BE SHAPED SO THAT THE LEAST DIMENSION OF THE STONE FRAGMENT IS NOT LESS THAN ONE THIRD OF THE GREATEST DIMENSION OF THE FRAGMENT. FLAT ROCKS SHALL NOT BE USED FOR RIP RAP. VOIDS IN THE ROCK RIP RAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.



I C2 FIELDSTONE WALL NTS



K C3 CONCRETE WALKWAY/SLAB NTS



L C2 TECHO-BLOC® POROUS PATIO HARDSCAPE DESIGN & INSTALLATION NTS
1-410-969-9260

**PROPOSED HOUSING
TBD NORTHWEST ST.
PORTSMOUTH, NH**

NO.	DESCRIPTION	DATE
4	DETAILS E, J, L	1/3/22
3	DETAIL J	11/22/21
2	DETAIL I, J, K	10/27/21
1	DETAIL H	8/25/21
0	ISSUED FOR COMMENT	8/23/21

REVISIONS



SCALE: AS SHOWN JUNE 2021

DETAILS

D2

CONSTRUCTION SEQUENCE

DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.

INSTALL PERIMETER CONTROLS, i.e., SILTISOXX AROUND THE LIMITS OF DISTURBANCE AND CATCH BASIN SOCK FILTER BEFORE ANY EARTH MOVING OPERATIONS. THE USE OF HAYBALES IS NOT ALLOWED.

CUT BRUSH AND TREES AS REQUIRED. STUMP SITE AND CLEAR TOPSOIL.

INSTALL FOUNDATION AND BACKFILL.

ROUGH GRADE SITE, PROVIDE TEMPORARY EROSION PROTECTION TO DITCHES AND SWALES IN THE FORM OF MULCHING, JUTE MESH OR DITCH DAMS.

CONSTRUCT BUILDING.

PLANT LANDSCAPING IN AREAS OUT OF WAY OF BUILDING CONSTRUCTION. PREPARE AND STABILIZE FINAL SITE GRADING BY ADDING TOPSOIL, SEED, MULCH AND FERTILIZER. PER CITY OF PORTSMOUTH ZONING ORDINANCE, ARTICLE 10.1018.24 FERTILIZERS: THE USE OF ANY FERTILIZER IS PROHIBITED IN A WETLAND, VEGETATED BUFFER STRIP OR LIMITED CUT AREA; AND THE USE OF FERTILIZERS OTHER THAN LOW PHOSPHATE AND SLOW RELEASE NITROGEN FERTILIZERS IS PROHIBITED IN ANY PART OF A WETLAND BUFFER.

FINISH ALL REMAINING LANDSCAPE WORK.

REMOVE TRAPPED SEDIMENTS FROM COLLECTION DEVICES AS APPROPRIATE, AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF FINAL STABILIZATION OF THE SITE.

GENERAL CONSTRUCTION NOTES

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT, AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE". THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR MORE THAN 45 DAYS.

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

DUST CONTROL: IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION, APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

SILT FENCES AND SILTISOXX SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. ALL DAMAGED SILT FENCES AND SILTISOXX SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

AVOID THE USE OF FUTURE OPEN SPACES (LOAM AND SEED AREAS) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ACCESS DRIVES AND PARKING AREAS.

ADDITIONAL TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS--CONSTRUCT SILT FENCE OR SILTISOXX AROUND TOPSOIL STOCKPILE.

AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL. STUMPS SHALL BE DISPOSED OF IN AN APPROVED FACILITY.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

ALL NON-STRUCTURAL, SITE-FILL SHALL BE PLACED AND COMPACTED TO 90% MODIFIED PROCTOR DENSITY IN LAYERS NOT EXCEEDING 18 INCHES IN THICKNESS UNLESS OTHERWISE NOTED.

FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIAL, TRASH, WOODY DEBRIS, LEAVES, BRUSH OR ANY DELETERIOUS MATTER SHALL NOT BE INCORPORATED INTO FILLS.

FILL MATERIAL SHALL NOT BE PLACED ON FROZEN FOUNDATION SUBGRADE.

DURING CONSTRUCTION AND UNTIL ALL DEVELOPED AREAS ARE FULLY STABILIZED, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH ONE HALF INCH OF RAINFALL.

THE CONTRACTOR SHALL MODIFY OR ADD EROSION CONTROL MEASURES AS NECESSARY TO ACCOMMODATE PROJECT CONSTRUCTION.

ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- * BASE COURSE GRAVELS HAVE BEEN INSTALLED ON AREAS TO BE PAVED
- * A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
- * A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED
- * EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.

NOFA STANDARDS FOR ORGANIC LAND CARE

*REFERENCE NOFA STANDARDS FOR ORGANIC LAND CARE MANUAL FOR ALL LAND CARE PRACTICES AT THIS SITE.

NEW LAWN INSTALLATION

- 1. SOIL TESTING: SOIL TYPE PREFERRED IS CLOSE TO NEUTRAL PH AND HAS A BALANCED FUNGAL TO BACTERIAL RATIO.
- 2. PLANTING BED PREPARATION WITH SOIL AMENDMENTS AS SPECIFIED BY SOIL TEST RESULTS.
- 3. SEEDING WITH AN APPROPRIATE MIX OF SEEDS BY HAND, USING A SPREADER OR SEED DRILLER, OR BY ORGANIC HYDROSEEDING.
- 4. WATERING FREQUENTLY BUT SHALLOWLY, MAINTAINING A "UNIFORMLY MOIST" SEEDBED DURING GERMINATION AND ESTABLISHMENT.

LAWN MAINTENANCE

-GRASS SHOULD BE ALLOWED TO GROW 3" OR TALLER IN HEIGHT PRIOR TO FIRST MOWING. GRASS CLIPPINGS SHOULD BE LEFT IN PLACE.
-REMOVE NO MORE THAN 1/3 OF GRASS LENGTH PER MOWING.

FERTILIZING

-ORGANIC FERTILIZERS ONLY. OMRI CERTIFIED PRODUCTS (ORGANIC MATERIALS REVIEW INSTITUTE) ARE PREFERRED.

EROSION CONTROL NOTES

VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS: LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE.

ORGANIC FERTILIZERS ONLY. OMRI CERTIFIED PRODUCTS (ORGANIC MATERIALS REVIEW INSTITUTE) ARE PREFERRED.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. PER CITY OF PORTSMOUTH ZONING ORDINANCE, ARTICLE 10.1018.24 FERTILIZERS: THE USE OF ANY FERTILIZER IS PROHIBITED IN A WETLAND, VEGETATED BUFFER STRIP OR LIMITED CUT AREA; AND THE USE OF FERTILIZERS OTHER THAN LOW PHOSPHATE AND SLOW RELEASE NITROGEN FERTILIZERS IS PROHIBITED IN ANY PART OF A WETLAND BUFFER.

SEED SHALL BE SOWN AT THE RATES SHOWN IN THE TABLE BELOW. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE, AND SHALL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED SHALL BE RESEDED, AND ALL NOXIOUS WEEDS REMOVED.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

GENERAL COVER	PROPORTION	SEEDING RATE
CREeping RED FESCUE	50%	100 LBS/ACRE
KENTUCKY BLUEGRASS	50%	

SLOPE SEED (USED ON ALL SLOPES GREATER THAN OR EQUAL TO 3:1)

CREeping RED FESCUE	42%	
TALL FESCUE	42%	48 LBS/ACRE
BIRDSFOOT TREFOIL	16%	

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SEED LAWS.

FOR TEMPORARY PROTECTION OF DISTURBED AREAS: MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES: PERENNIAL RYE: 0.7 LBS/1,000 S.F.
1.5 TONS/ACRE

MAINTENANCE AND PROTECTION

THE CONTRACTOR SHALL MAINTAIN ALL LOAM & SEED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE CONTRACT. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REMOVAL OF STONES AND OTHER FOREIGN OBJECTS OVER 1/2 INCHES IN DIAMETER WHICH MAY APPEAR AND THE FIRST TWO (2) CUTTINGS OF GRASS NO CLOSER THEN TEN (10) DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2 1/2 TO 3 INCHES HIGH. ALL BARE AND DEAD SPOTS WHICH BECOME APPARENT SHALL BE PROPERLY PREPARED, LIMED AND FERTILIZED, AND RESEDED BY THE CONTRACTOR AT HIS EXPENSE AS MANY TIMES AS NECESSARY TO SECURE GOOD GROWTH. THE ENTIRE AREA SHALL BE MAINTAINED, WATERED AND CUT UNTIL ACCEPTANCE OF THE LAWN BY THE OWNER'S REPRESENTATIVE. PER CITY OF PORTSMOUTH ZONING ORDINANCE, ARTICLE 10.1018.24 FERTILIZERS: THE USE OF ANY FERTILIZER IS PROHIBITED IN A WETLAND, VEGETATED BUFFER STRIP OR LIMITED CUT AREA; AND THE USE OF FERTILIZERS OTHER THAN LOW PHOSPHATE AND SLOW RELEASE NITROGEN FERTILIZERS IS PROHIBITED IN ANY PART OF A WETLAND BUFFER.

THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS DEVELOPING.

TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST OF A UNIFORM STAND OF AT LEAST 90 PERCENT ESTABLISHED PERMANENT GRASS SPECIES, WITH UNIFORM COUNT OF AT LEAST 100 PLANTS PER SQUARE FOOT.

SEEDED AREAS WILL BE FERTILIZED AND RESEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT. PER CITY OF PORTSMOUTH ZONING ORDINANCE, ARTICLE 10.1018.24 FERTILIZERS: THE USE OF ANY FERTILIZER IS PROHIBITED IN A WETLAND, VEGETATED BUFFER STRIP OR LIMITED CUT AREA; AND THE USE OF FERTILIZERS OTHER THAN LOW PHOSPHATE AND SLOW RELEASE NITROGEN FERTILIZERS IS PROHIBITED IN ANY PART OF A WETLAND BUFFER. ORGANIC FERTILIZERS ONLY. OMRI CERTIFIED PRODUCTS (ORGANIC MATERIALS REVIEW INSTITUTE) ARE PREFERRED.

THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.

SILTISOXX BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

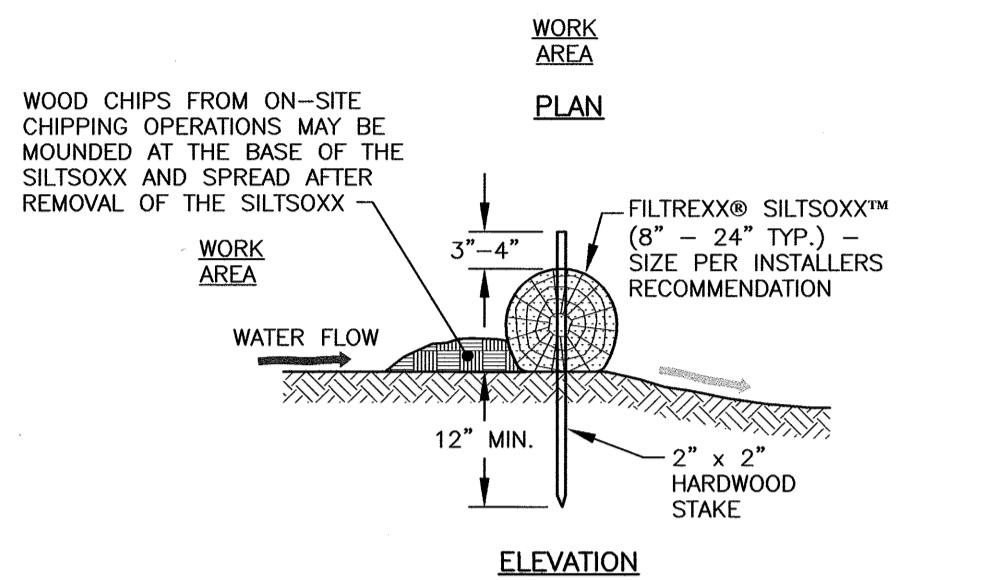
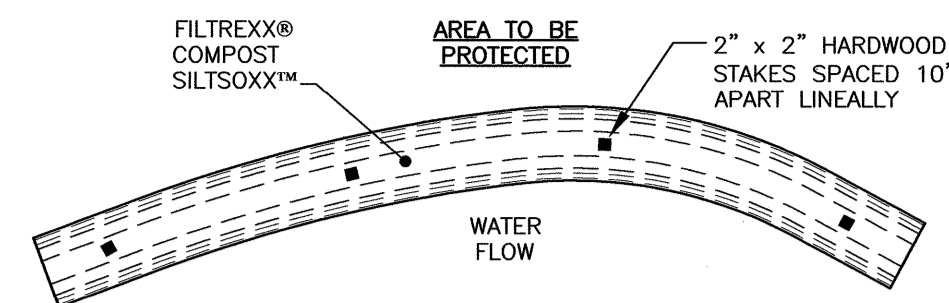
SILT FENCING AND SILTISOXX SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT FENCE AND SILTISOXX REMOVAL SHALL BE PERMANENTLY RESEDED.

WINTER NOTES

ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

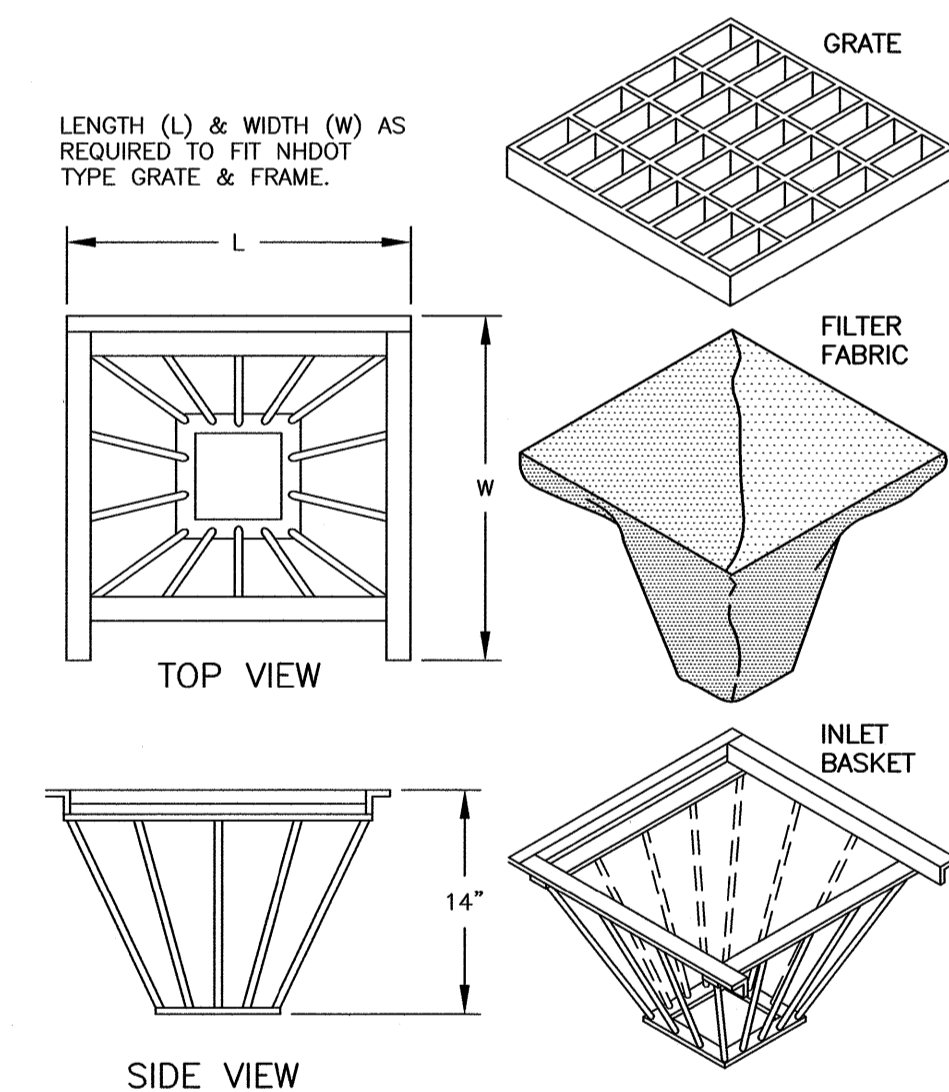
ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.



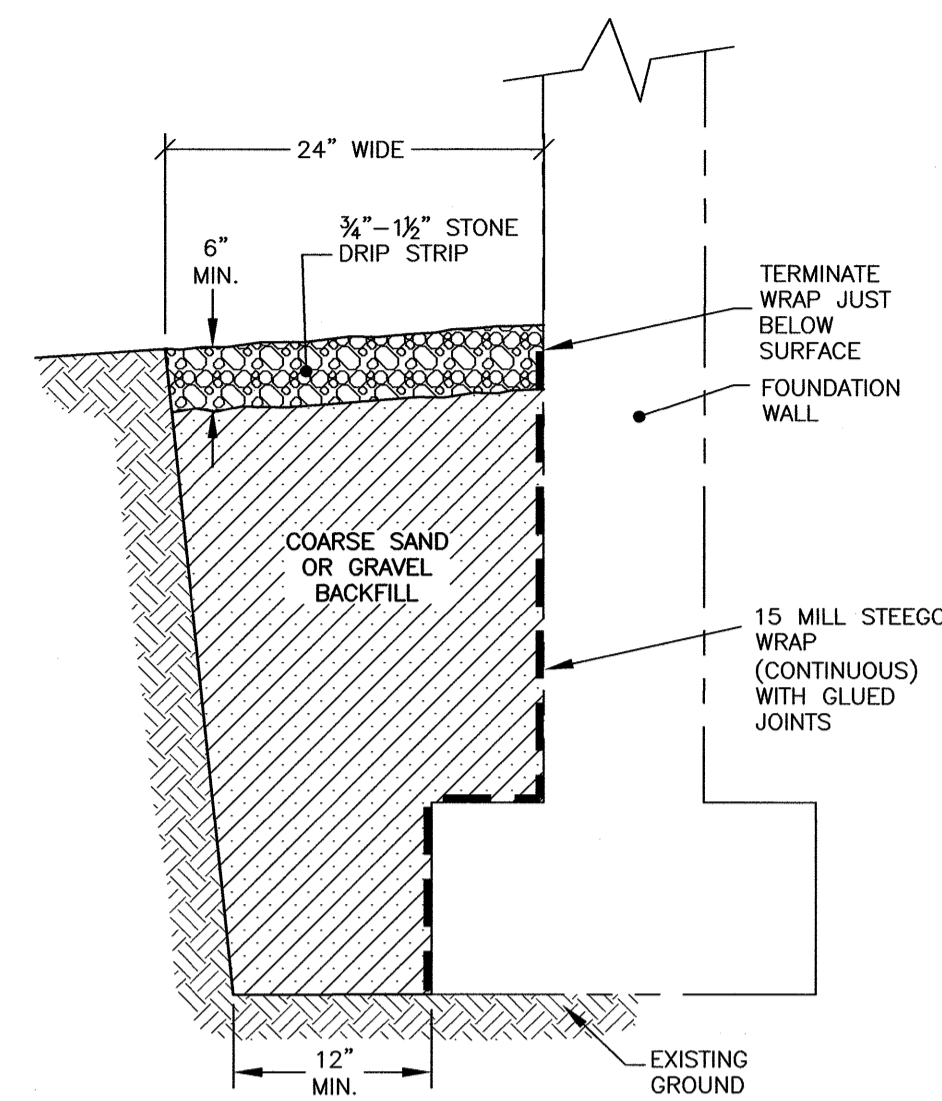
- NOTES:
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
 2. FILTREXX SYSTEM SHALL BE INSTALLED BY A CERTIFIED FILTREXX INSTALLER.
 3. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTRATION SYSTEM IN A FUNCTIONAL CONDITION AT ALL TIMES. IT WILL BE ROUTINELY INSPECTED AND REPAIRED WHEN REQUIRED.
 4. SILTISOXX DEPICTED IS FOR MINIMUM SLOPES; GREATER SLOPES MAY REQUIRE ADDITIONAL PLACEMENTS.
 5. THE COMPOST FILTER MATERIAL WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.

A C3 FILTREXX® SILTISOXX™ FILTRATION SYSTEM NTS

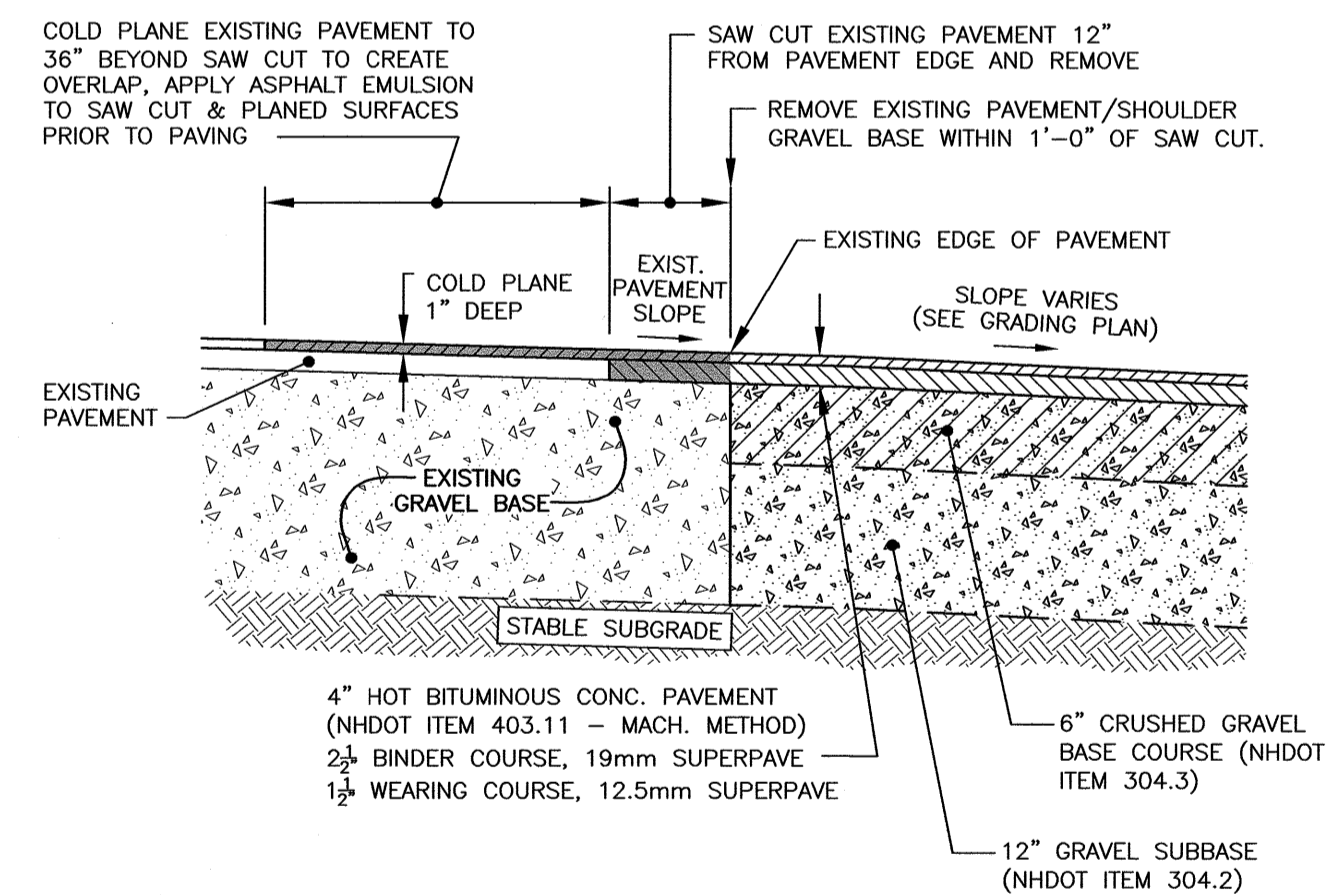


- 1) INLET BASKETS SHALL BE INSTALLED IMMEDIATELY AFTER CATCH BASIN CONSTRUCTION IS COMPLETE AND SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL PAVEMENT BINDER COURSE IS COMPLETE.
- 2) FILTER FABRIC SHALL BE PUSHED DOWN AND FORMED TO THE SHAPE OF THE BASKET. THE SHEET OF FABRIC SHALL BE LARGE ENOUGH TO BE SUPPORTED BY THE BASKET FRAME WHEN HOLDING SEDIMENT AND, SHALL EXTEND AT LEAST 6" PAST THE FRAME. THE INLET GRATE SHALL BE PLACED OVER THE BASKET/FRAME AND WILL SERVE AS THE FABRIC ANCHOR.
- 3) THE FILTER FABRIC SHALL BE A GEOTEXTILE FABRIC: POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE MEETING THE FOLLOWING SPECIFICATIONS:
 - RAB STRENGTH: 45 LB. MIN. IN ANY PRINCIPAL DIRECTION (ASTM D1682)
 - MULLEN BURST STRENGTH: MIN. 60 psi (ASTM D774)
- 4) THE FABRIC SHALL HAVE AN OPENING NO GREATER THAN A NUMBER 20 U.S. STANDARD SIEVE AND A MINIMUM PERMEABILITY OF 120 gpm/s.f. (MULTIPLY THE PERMITIVITY IN SEC.-1 FROM ASTM 54491-85 CONSTANT HEAD TEST USING THE CONVERSION FACTOR OF 74.)
- 5) THE INLET BASKET SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OR DAILY DURING EXTENDED PERIODS OF PRECIPITATION. REPAIRS SHALL BE MADE IMMEDIATELY, AS NECESSARY, TO PREVENT PARTICLES FROM REACHING THE DRAINAGE SYSTEM AND/OR CAUSING SURFACE FLOODING.
- 6) SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT, OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED.

B C3 CATCH BASIN INLET BASKET NTS



C C3 STONE DRIP APRON (UNDER BUILDING DRIP LINE) NTS



- NOTES:
- 1) PAVEMENT SHALL CONFORM TO NHDOT STANDARD SPECIFICATIONS - SECTION 401.
 - 2) CRUSHED GRAVEL AND GRAVEL SUBBASE SHALL CONFORM TO NHDOT STANDARD SPECIFICATIONS - SECTION 304, TABLE 1E, AND SHALL BE COMPACTED AS INDICATED IN SECTION 304, 3.6 COMPACTION, AND 3.7 DENSITY TESTING, AND CITY OF CONCORD CONSTRUCTION STANDARDS, SECTION VII B AND C.

D C2 PAVEMENT / PAVEMENT JOINT DETAIL NTS

NOTES:

- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN THIRTY DAYS.
- 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
- 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).
- 4) PURSUANT TO RSA 483-B:9 11 (D), NO FERTILIZER SHALL BE APPLIED TO VEGETATION OR SOILS LOCATED WITHIN 25 FEET OF THE REFERENCE LINE OF ANY PUBLIC WATER. BEYOND 25 FEET, SLOW OR CONTROLLED RELEASE FERTILIZER MAY BE USED. SLOW RELEASE NITROGEN MUST CONTAIN NO MORE THAN 2% PHOSPHORUS, AND A NITROGEN COMPONENT WHICH IS AT LEAST 50% SLOW RELEASE NITROGEN COMPONENTS.
- 5) PURSUANT TO RSA 483-B:9, V (A) (2) (A), NO CHEMICALS INCLUDING PESTICIDES OR HERBICIDES OF ANY KIND, SHALL BE APPLIED TO GROUND, TURF, OR ESTABLISHED VEGETATION WITHIN THE WATERFRONT BUFFER, EXCEPT IF APPLIED BY HORTICULTURE PROFESSIONAL WHO HAVE AN APPLICATION LICENSE OR AS ALLOWED BY SPECIAL PERMIT ISSUED UNDER RSA 541-A. NO CALCIUM CHLORIDE SHALL BE APPLIED WITHIN THE WATERFRONT BUFFER.

**PROPOSED HOUSING
TBD NORTHWEST ST.
PORTSMOUTH, NH**

NO.	DESCRIPTION	DATE
1	UPDATE SEQUENCE	1/3/22
0	ISSUED FOR COMMENT	8/23/21

REVISIONS

SCALE: AS SHOWN JUNE 2021

EROSION NOTES & DETAILS

D1