

Little Harbor School Water Service

The purpose of the project is to connect the Little Harbor Elementary School to a newly constructed water main. The existing water main is aged, breaks frequently, causes rusty water complaints, and is in need of replacement. The new water main has been constructed in front of the Little Harbor School on Clough Drive, but the fire and domestic water services come into the back of the building, within the 100 foot buffer zone of a prime wetland. This work will ensure adequate fire protection ability for the school and adequate drinking water quality. The work would take place in the back parking area of the school with a small disturbance to a grass area to connect into the water main laid in 2016. The area is previously disturbed and will be replaced to its existing condition after all work has been completed. In order to contain the work silt fencing/straw wattles will be placed between the work and the wetland. Any dewatering activity will be pumped through filter bags to make sure no excess sediments reach the wetland. In order to minimize the disturbance in the wetland buffer the existing water main will be used as a conduit to pull new pipe through. This means that two smaller excavations will be completed on either end of the pipe instead of trenching along the entire length.

Commission narrative



**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: Zachary Cronin

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

A person may request a waiver to requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interests of the public or the environment. A person may also request a waiver of standard for existing dwellings over water pursuant to RSA 482-A:26, III (b). For more information, please consult the [request form](#).

SECTION 1 - CONCURRENT PROCESSING OF RELATED SHORELAND/WETLANDS PERMIT APPLICATIONS (Env-Wt 313.05)

If the applicant is not requesting concurrent processing, please proceed to Section 2.

Is the proposed project eligible for the optional concurrent processing of related shoreland/wetlands permit applications (Env-Wt 313.05(d))? If the project is not eligible, proceed to Section 2 (the files will not be processed concurrently). ☐ Yes ☒ No

By signing this form and initialing this section, the applicant is requesting concurrent processing of related shoreland/wetlands permit applications and understands that concurrently filing the applications with a request to process the applications together constitutes:

- A waiver by the applicant of the shorter time frame, if application processing timelines are different for each permit program under the 2 statutes and their implementing rules; and
- An agreement by the applicant that any request for additional information by the department under either or both statutes shall affect the review timeframe of both applications being processed together.

Initials:

Initials:

SECTION 2 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05)

Please use the Wetland Permit Planning Tool (WPPT) or any other database or source to assist in identifying key features such as: priority resource areas (PRA), protected species or habitat, coastal area, or designated river, or designated prime wetlands.

Step 1: A certified wetland scientist must delineate and classify all wetlands and identify the predominant resource functions of each wetland, unless the exceptions listed in Env-Wt 306.05(a)(1) are met (Env-Wt 306.05(a)(1)).

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Step 2: Determine whether the subject property is or contains a PRA by answering the following questions (Env-Wt 306.05(a)(2)):

1. Does the property contain any documented occurrences of protected species or habitat for such species? Please use the Natural Heritage Bureau (NHB) DataCheck Tool to make this determination. ☒ Yes ☐ No
2. Is the property a bog? Please use the WPPT "Peatland" layer (under the PRA module) for general location of bogs or any other database or source. ☐ Yes ☒ No
3. Is the property a floodplain wetland contiguous to a tier 3 or higher watercourse? Please use the WPPT "Floodplain Wetlands Adjacent to Tier 3 Streams" layer (under PRA module) or any other database or source. ☐ Yes ☒ No
4. Is the property a designated prime wetland or a duly-established 100-foot buffer? Please use the WPPT "Prime Wetlands" layers (under PRA module) or any other database or source. ☒ Yes ☐ No
5. Is the property a sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone? Please use the WPPT "Coastal" layers module and PRA module or any other database or source. ☐ Yes ☒ No

Step 3: For projects that are subject to Env-Wt 600, please attach the Coastal Functional Assessment (Env-Wt 603.04) and Vulnerability Assessment (Env-Wt 603.05) and conduct the data screening required by Env-Wt 603.03.

Step 4: Determine whether the following apply to the subject property (Env-Wt 306.05(a)(4); RSA 482-A:3, I(d)(2)):

1. Is the property within a Local River Management Advisory Committee (LAC) jurisdiction?
If yes, please provide the following information:
 - The project is within ¼ mile of: ☐ Yes ☒ No
 - A copy of the application was sent to the LAC on Month: Day: Year:
☐ N/A (Env-Wt 311.01(e))
2. Is the property within or contains any areas that are subject to time of year restrictions under Env-Wt 307? ☐ Yes ☒ No

Step 5: For stream crossing projects: what is the size of the watershed (Env-Wt 306.05(a)(5))?

☒ N/A

Step 6: For dredge projects: is the subject property contaminated (Env-Wt 306.05(a)(6))? ☐ Yes ☐ No

☒ N/A

Step 7: Does the project have the potential to impact any of the following (Env-Wt 306.05(a)(7)):

☒ N/A

1. Impaired waters? ☐ Yes ☐ No
2. Class A waters? ☐ Yes ☐ No
3. Outstanding resource waters? ☐ Yes ☐ No

SECTION 3 - 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" in the space provided below.

An aged section of water main is frequently breaking causing rusty water complaints, and needs to be upgraded. The existing water main is located in the 100' buffer zone of a prime wetland. The new water main will be constructed entirely outside of the buffer zone but the domestic and fire services for the Little Harbor School are entirely within the buffer zone. In order to supply water to the school the parking lot behind the school will need to be excavated to redirect and replace existing pipe. In order to minimize the excavation in the area, the existing pipe will be utilized as a conduit to pull new pipe through. This approach results in two smaller excavations, one at each connection point as opposed to excavating and disturbing the entire length of pipe. All disturbances will be temporary and the area will be returned to pre-construction conditions.

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SECTION 4 - PROJECT LOCATION

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

ADDRESS: 50 Clough Drive

TOWN/CITY: Portsmouth

TAX MAP/BLOCK/LOT/UNIT: Tax Map 206/Lot20

UNITED STATES GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: Piscataqua River

☐ N/A

LATITUDE (D.ddddd): 207863° North (Optional)

LONGITUDE (D.ddddd): 1228849° West (Optional)

SECTION 5 - APPLICANT (DESIRED PERMIT HOLDER) INFORMATION (Env-Wt 311.04(a))

If the applicant is a trust or a company, then the name of the trust or company should be written as the applicant's name.

NAME: Peter Rice

MAILING ADDRESS: 680 Peverly Hill Road

TOWN/CITY: Portsmouth

STATE: NH

ZIP CODE: 03801

EMAIL ADDRESS: phrice@cityofportsmouth.com

FAX:

PHONE: 603-766-1416

ELECTRONIC COMMUNICATION: By initialing here: , I hereby authorize NHDES to communicate all matters relative to this application electronically.

SECTION 6 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))☐ N/A

LAST NAME, FIRST NAME, M.I.: Cronin, Zachary, M.J.

COMPANY NAME: City of Portsmouth Department of Public Works

MAILING ADDRESS: 680 Peverly Hill Road

TOWN/CITY: Portsmouth

STATE: NH

ZIP CODE: 03801

EMAIL ADDRESS:

zmcronin@cityofportsmouth.com

FAX:

PHONE: 603-610-7304

ELECTRONIC COMMUNICATION: By initialing here ZMJC, I hereby authorize NHDES to communicate all matters relative to this application electronically.

SECTION 7 - PROPERTY OWNER INFORMATION (IF DIFFERENT THAN APPLICANT) (Env-Wt 311.04(b))

If the owner is a trust or a company, then the name of the trust or company should be written as the owner's name.

☒ Same as applicant

NAME:

MAILING ADDRESS:

TOWN/CITY:

STATE:

ZIP CODE:

EMAIL ADDRESS:

FAX:

PHONE:

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

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ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically.

SECTION 8 - 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 (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters).

The project is located in a parking lot that is within the 100' buffer zone of a prime wetland. There are no stream crossings, coastal resources, prime wetlands, non-tidal wetlands, or surface waters that will be affected by the work. All excavated soils will be returned to the trench. Any potential dewatering will be pumped through filter bags to remove sediment. In addition straw wattles will be placed between the area of work and the wetland. All areas will be returned to their pre-construction conditions after work is complete.

SECTION 9 - AVOIDANCE AND MINIMIZATION

Impacts within wetland jurisdiction must be avoided to the maximum extent practicable (Env-Wt 313.03(a)). If all impacts cannot be avoided, a functional assessment is required for minor and major projects (Env-Wt 311.03(b)(10)). Any project with unavoidable jurisdictional impacts must then be minimized as described in the [Wetlands Best Management Practice Techniques For Avoidance and Minimization](#). Please refer to the application checklist to ensure that you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable).

SECTION 10 - 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 11 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c).

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Have you submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent impacts that will remain after avoidance and minimization demonstration?

☐ Yes ☐ No

☒ N/A - Mitigation is not required

SECTION 12 - 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 required permitting).

For intermittent streams, the linear footage of impact is measured along the thread of the channel.

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 SF / LF		TEMPORARY SF / LF	
Forested Wetland		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Scrub-shrub Wetland		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Emergent Wetland		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Wet Meadow		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Intermittent Stream	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Perennial Stream or River	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Lake / Pond	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Bank - Intermittent Stream	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Bank - Perennial Stream / River	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Bank/shoreline - Lake / Pond	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Tidal Waters	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Tidal Marsh		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Sand Dune		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Designated Prime Wetland		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Duly-established 100-foot Prime Wetland Buffer		<input type="checkbox"/> ATF	650	<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Previously-developed TBZ		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Docking - Lake / Pond		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Docking - River		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Docking - Tidal Water		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Vernal Pool		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
TOTAL	/		650 /	

SECTION 13 - 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): 650 SF × \$0.40 = \$ 260

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Seasonal docking structure:	SF	× \$2.00 = \$	
Permanent docking structure:	SF	× \$4.00 = \$	
Projects proposing shoreline structures (including docks) add \$400 = \$			
Total = \$		260	
The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$ 400			
SECTION 14 - PROJECT CLASSIFICATION (Env-Wt 306.05)			
Indicate the project classification.			
<input type="checkbox"/> Minimum Impact Project	<input type="checkbox"/> Minor Project	<input checked="" type="checkbox"/> Major Project	
SECTION 15 - ALL APPLICABLE CONDITIONS IN Env-Wt 307 HAVE BEEN MET (Env-Wt 311.04(j); Env-Wt 313.01(a)(2)).			
Check all conditions applicable to your project below. Please ensure that your plan design and access, construction sequence, and timing appropriately meet applicable conditions below:			
<input checked="" type="checkbox"/> Env-Wt 307.02	US Army Corps of Engineers (USACE) Conditions	<input type="checkbox"/> Env-Wt 307.11	Filling Activity Conditions
<input type="checkbox"/> Env-Wt 307.03	Protection of Water Quality Required	<input type="checkbox"/> Env-Wt 307.12	Restoring Temporary Impacts: Site Stabilization
<input type="checkbox"/> Env-Wt 307.04	Protection of Fisheries and Breeding Areas Required	<input type="checkbox"/> Env-Wt 307.13	Property Line Setbacks
<input type="checkbox"/> Env-Wt 307.05	Protection Against Invasive Species Required	<input type="checkbox"/> Env-Wt 307.14	Rock Removal
<input type="checkbox"/> Env-Wt 307.06	Protection of Rare, Threatened or Endangered Species and Critical Habitat	<input type="checkbox"/> Env-Wt 307.15	Use of Heavy Equipment in Wetlands
<input type="checkbox"/> Env-Wt 307.07	Consistency Required with Shoreland Water Quality Protection Act	<input type="checkbox"/> Env-Wt 307.16	Adherence to Approved Plans Required
<input checked="" type="checkbox"/> Env-Wt 307.08	Protection of Designated Prime Wetlands and Duly-Established 100-Foot Buffers	<input type="checkbox"/> Env-Wt 307.17	Unpermitted Activities
<input type="checkbox"/> Env-Wt 307.09	Shoreline Structures	<input type="checkbox"/> Env-Wt 307.18	Reports
<input type="checkbox"/> Env-Wt 307.10	Dredging Activity Conditions		

Provide an explanation as to methods, timing, and manner as to how your project will meet standard permit conditions required in Env-Wt 307 (Env-Wt 311.03(b)(7)):

The work to be completed is located in a parking lot within the 100' buffer of a prime wetland. There will be no work or disturbance of any wetlands. The method of construction will be to utilize the pipe to be abandoned as a conduit to pull smaller diameter pipe through, resulting in the smallest amount of excavation possible. All soils will be returned to the excavated area. Any potential dewatering will be pumped through filter bags and straw wattles will be placed between the work area and wetlands.

SECTION 16 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)

Initial each box below to certify:

Initials: ZMJC	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: ZMJC	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: ZMJC	<p>The signer understands that:</p> <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"> Deny the application. Revoke any approval that is granted based on the information. And 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 trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II.
Initials: ZMJC	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 17 - REQUIRED SIGNATURE (Env-Wt 311.04(d); Env-Wt 311.11)

SIGNATURE (OWNER): _____	PRINT NAME LEGIBLY: Peter H. Rice	DATE: _____
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER): _____	PRINT NAME LEGIBLY: _____	DATE: _____
SIGNATURE (AGENT, IF APPLICABLE): _____	PRINT NAME LEGIBLY: Zachary M. J. Cronin	DATE: _____

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SECTION 18 - 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: _____

DIRECTIONS FOR TOWN/CITY CLERK:

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

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

DIRECTIONS FOR APPLICANT:

Submit the single, original permit application form bearing the signature of the Town/City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery at the address at the bottom of this page.

APPLICATION CHECKLIST

(Items identified with an asterisk (*) are required only for Minor and Major Projects)

- ☒ The completed, dated, signed and certified application (Env-Wt 311.03(b)(1)).
- ☒ Correct fee as determined in RSA 482-A:3, I(b) or (c), subject to any cap established by RSA 482-A:3, X (Env-Wt 311.03(b)(2)).
- ☐ USACE "Appendix B, New Hampshire General Permits (GPs), Required Information and Corps Secondary Impacts Checklist" and its required attachments (Env-Wt 307.02).
- ☐ The results of actions required by Env-Wt 311.01 as part of an application preparation for a standard permit (Env-Wt 311.03(b)(3)).
- ☐ Project plans described in Env-Wt 311.05 (Env-Wt 311.03(b)(4)).
- ☐ Maps, or electronic shape files and meta data, and other attachments specified in Env-Wt 311.06 (Env-Wt 311.03(b)(5)).
- ☒ Explanation as to methods, timing, and manner as to how the project will meet standard permit conditions required in Env-Wt 307 (Env-Wt 311.03(b)(7)).
- ☒ If applicable, the information regarding proposed compensatory mitigation specified in Env-Wt 311.08 and Chapter Env-Wt 800 – Mitigation Worksheet, unless not required under Env-Wt 313.04 (Env-Wt 311.03(b)(8); Env-Wt 311.08; Env-Wt 313.04).
- ☐ Any additional information specific to the type of resource as specified in Env-Wt 311.09 (Env-Wt 311.03(b)(9); Env-Wt 311.04(j)).
- ☐ Project specific information required by Env-Wt 500, Env-Wt 600, and Env-Wt 900 (Env-Wt 311.03(b)(11)).
- ☐ A list containing the name, mailing address and tax map/lot number of each abutter to the subject property (Env-Wt 311.03(b)(12)).
- ☐ Copies of certified postal receipts or other proof of receipt of the notices that are required by RSA 482-A:3, I(d) (Env-Wt 311.03(b)(13)).
- ☐ Project design considerations required by Env-Wt 313 (Env-Wt 311.04(j)).

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- ☐ Town tax map showing the subject property, the location of the project on the property, and the location of properties of abutters with each lot labeled with the name and mailing address of the abutter (Env-Wt 311.06(a)).
 - ☐ Dated and labeled color photographs that:
 - (1) Clearly depict:
 - a. All jurisdictional areas, including but not limited to portions of wetland, shoreline, or surface water where impacts have or are proposed to occur. And
 - b. All existing shoreline structures. And
 - (2) Are mounted or printed no more than 2 per sheet on 8.5 x 11 inch sheets (Env-Wt 311.06(b)).
 - ☐ A copy of the appropriate USGS map or updated data based on LiDAR at a scale of one inch equals 24,000 feet showing the location of the subject property and proposed project (Env-Wt 311.06(c)).
 - ☐ A narrative that describes the work sequence, including pre-construction through post-construction, and the relative timing and progression of all work (Env-Wt 311.06(d)).
 - ☐ For all coastal projects, include a copy of the recorded deed with book and page numbers for the property (Env-Wt 311.06(e)).
-
- ☐ If the applicant is not the owner in fee of the subject property, documentation of the applicant's legal interest in the subject property, provided that for utility projects in a utility corridor, such documentation may comprise a list that:
 - (1) Identifies the county registry of deeds and book and page numbers of all of the easements or other recorded instruments that provide the necessary legal interest. And
 - (2) Has been certified as complete and accurate by a knowledgeable representative of the applicant (Env-Wt 311.06(f)).
 - ☐ The NHB memo containing the NHB identification number and results and recommendations from NHB as well as any written follow-up communications such as additional memos or email communications with either NHB or New Hampshire Fish and Game Department (NHF&G) (Env-Wt 311.06(g)).
 - ☐ A statement of whether the applicant has received comments from the local conservation commission and, if so, how the applicant has addressed the comments (Env-Wt 311.06(h)).
 - ☐ For projects in LAC jurisdiction, a statement of whether the applicant has received comments from the LAC and, if so, how the applicant has addressed the comments (Env-Wt 311.06(i)).
 - ☐ If the applicant is also seeking to be covered by the state general permits, a statement of whether comments have been received from any federal agency and, if so, how the applicant has addressed the comments (Env-Wt 311.06(j)).
 - ☐ For after-the-fact applications: information required by Env-Wt 311.12 (Env-Wt 311.12).
 - ☐ [Coastal Resource Worksheet](#) for coastal projects as required under Env-Wt 600.
 - ☐ Prime Wetlands information required under Env-Wt 700.
 - ☐ [Stream Crossing Worksheet](#) required by Env-Wt 900.
 - ☐ [Avoidance and Minimization Written Narrative](#), [Avoidance and Minimization Checklist](#), or your own avoidance and minimization narrative (Env-Wt 311.07).
 - ☐ * [Attachment A: Minor and Major Projects](#) (Env-Wt 311.10).
 - ☐ * [Functional Assessment](#) (Env-Wt 311.10).

Purpose of the Project

An aged section of water main is frequently breaking causing rusty water complaints, and needs to be upgraded. The existing water main is located in the 100' wetlands buffer zone. The new water main will be constructed completely outside of the wetlands buffer zone but the domestic and fire services for the Little Harbor School are entirely within the buffer zone. In order to supply water to the school the parking lot behind the school will need to be excavated to redirect and replace existing piping. In order to minimize the excavation in the area the existing pipe will be utilized as a conduit to pull new pipe through. This approach results in two smaller excavations, one at each connection point, as opposed to excavating and disturbing the entire length of pipe.



**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 LAST NAME, FIRST NAME, M.I.: Rice, Peter, H.

Attachment A can be used to satisfy some of the additional requirements for minor and major projects regarding avoidance and minimization, as well as functional assessment.

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.

AN AGED WATER MAIN IS IN NEED OF REPLACEMENT DUE TO FREQUENT WATER MAIN BREAKS AND RUSTY WATER ISSUES. THE EXISTING WATER MAIN IS LOCATED IN THE 100' BUFFER ZONE OF A PRIME WETLAND. THE NEW MAIN WILL BE INSTALLED OUTSIDE OF THE BUFFER ZONE TO MINIMIZE FUTURE IMPACTS TO THIS AREA. THE EXISTING FIRE AND DOMESTIC WATER SERVICES TO THE LITTLE HARBOR SCHOOL ARE LOCATED UNDER THE SCHOOL'S BACK PARKING LOT, ENTIRELY WITHIN THE 100' BUFFER ZONE. EXCAVATIONS WILL NEED TO BE CONDUCTED IN THE PARKING LOT LOCATED IN THE 100' BUFFER ZONE IN ORDER TO CONNECT TO THE EXISTING SERVICES AND SUPPLY WATER TO THE SCHOOL. IN ORDER TO MINIMIZE THE AMOUNT OF EXCAVATION THE EXISTING WATER MAIN THAT WILL BE ABANDONED IN PLACE WILL BE UTILIZED AS A CONDUIT TO PULL SMALLER DIAMETER PIPE THROUGH. THIS WILL RESULT IN TWO SMALLER EXCAVATIONS AT EITHER END OF THE PIPE INSTEAD OF A FULL EXCAVATION ALONG THE ENTIRE LENGTH OF THE PIPE.

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www.des.nh.gov

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, crustacea, shellfish and wildlife of significant value.

The work will be conducted in a parking lot and not in any tidal marshes or non-tidal marshes. The parking lot is located within the 100' buffer of a prime wetland. In order to minimize the impacts of the work the smallest excavations possible are planned and the abandoned water main will be used as a conduit to pull new pipe through. Any potential dewatering from the trench will be pumped through filter bags and straw wattles will be placed between the area of work and the wetlands.

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

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

The project will have no impact on the hydrologic connections between adjacent wetland or stream systems. The work is located in a parking lot that is entirely within the 100' buffer zone of a prime wetland. The work is for the installation of a domestic and fire service to the Little Harbor School. All soils that are excavated from the trench will be returned to the trench after the pipe had been re-installed.

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 work is located in a parking lot that is within the 100' buffer zone of a prime wetland. Filter bags and straw wattles will be utilized to prevent sediment from any potential dewatering to enter the wetlands. All disturbed areas are located in the parking lot behind the Little Harbor School.

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 work is located in the back parking lot of an elementary school. The work will have no impact on 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 work is not located in any floodplains. There will be no impact to any flood storage.

**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 is located in a parking lot within the 100' buffer zone of a prime wetland. It has no impact on natural riverine wetland systems or scrub-shrub-marsh complexes of high ecological integrity.

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 project is not located in any wetlands. The work is within the 100' buffer zone of prime wetlands. The prime wetlands that this project is located near are not utilized for any drinking water supply and there are no nearby aquifers.

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 is located in a parking lot within the 100' buffer of prime wetlands and is not located near any stream channels. The parking lot will be returned to pre-construction condition after the project is complete. There will be no impact on stream channels or their ability to handle runoff waters.

PART II: FUNCTIONAL ASSESSMENT**REQUIREMENTS**

Ensure that project meets requirements of Env-Wt 311.10 regarding functional assessment (Env-Wt 311.04(j); Env-Wt 311.10).

FUNCTIONAL ASSESSMENT METHOD USED:

NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT:

DATE OF ASSESSMENT:

Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT: ☐

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: ☐

Note: The Wetlands Functional Assessment worksheet can be used to compile the information needed to meet functional assessment requirements.



**US Army Corps
of Engineers®**
New England District

**New Hampshire General Permits (GPs)
Appendix B - Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)**

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to "work" include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See GC 5, regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm to determine if there is an impaired water in the vicinity of your work area.*	X	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	X	
2.2 Are there proposed impacts to SAS, special wetlands. Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at https://www2.des.state.nh.us/nhb_datacheck/ . The book Natural Community Systems of New Hampshire also contains specific information about the natural communities found in NH.		X
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	N/A	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		X
2.5 The overall project site is more than 40 acres?		X
2.6 What is the area of the previously filled wetlands?	0	S.F.
2.7 What is the area of the proposed fill in wetlands?	0	S.F.
2.8 What is the % of previously and proposed fill in wetlands to the overall project site?	0	%
3. Wildlife	Yes	No
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: https://www2.des.state.nh.us/nhb_datacheck/ USFWS IPAC website: https://ecos.fws.gov/ipac/location/index	X	

3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or "Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green, respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological Condition.") Map information can be found at: <ul style="list-style-type: none"> • PDF: www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html. 		X
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the GC 21?		X
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		X
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?	N/A	
5. Historic/Archaeological Resources		
For a minimum, minor or major impact project - a copy of the Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 11 GC 8(d) of the GP document**	X	

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

** If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review & Compliance
19 Pillsbury Street, Concord, NH 03301-3570

RECEIVED
NOV 04 2019

DHR Use Only	
R&C #	11252
Log In Date	11/4/19
Response Date	11/7/19
Sent Date	11/7/19

Request for Project Review by the New Hampshire Division of Historical Resources

- ☒ This is a new submittal
☐ This is additional information relating to DHR Review & Compliance (R&C) #:

GENERAL PROJECT INFORMATION

Project Title Clough Drive Water Main Reconstruction

Project Location 50 Clough Drive

City/Town Portsmouth Tax Map 206 Lot # 20

NH State Plane - Feet Geographic Coordinates: Easting 1228849 Northing 207863 ✓
(See RPR Instructions and R&C FAQs for guidance.)

Lead Federal Agency and Contact (if applicable) Army Corps of Engineers
(Agency providing funds, licenses, or permits)
Permit Type and Permit or Job Reference # Wetlands

State Agency and Contact (if applicable) NHDES Wetlands Bureau
Permit Type and Permit or Job Reference #

APPLICANT INFORMATION

Applicant Name Peter Rice

Mailing Address 680 Peverly Hill Road Phone Number 6037661416

City Portsmouth State NH Zip 03801 Email PHRice@CityofPortsmouth.com

CONTACT PERSON TO RECEIVE RESPONSE

Name/Company Zach Cronin (City of Portsmouth)

Mailing Address 680 Peverly Hill Road Phone Number 6036107304

City Portsmouth State NH Zip 03801 Email ZMCronin@CityofPortsmouth.com

This form is updated periodically. Please download the current form at www.nh.gov/nhdhr/review. Please refer to the Request for Project Review Instructions for direction on completing this form. Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: www.nh.gov/nhdhr/review or contact the R&C Specialist at marika.lahash@dnr.nh.gov or 603.271.3558.

Project Boundaries and Description

- ☒ Attach the Project Mapping using EMMIT or relevant portion of a 7.5' USGS Map. (See RPR Instructions and R&C FAQs for guidance.)
- ☒ Attach a detailed narrative description of the proposed project.
- ☒ Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- ☒ Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) (Informative photo captions are requested.)
- ☒ A DHR records search must be conducted to identify properties within or adjacent to the project area. Provide records search results via EMMIT or in Table 1. (Blank table forms are available on the DHR website.)
EMMIT or in-house records search conducted on 10/23/2019.

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? ☒ Yes ☐ No
If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s): 50 years

- ☒ Photographs of *each* resource or streetscape located within the project area, with captions, along with a mapped photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- ☐ If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity? ☒ Yes ☐ No
If yes, submit all of the following information:

- ☒ Description of current and previous land use and disturbances.
- ☐ Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.

DHR Comment/Finding Recommendation This Space for Division of Historical Resources Use Only

- ☐ Insufficient information to initiate review. ☐ Additional information is needed in order to complete review.
- ☐ No Potential to cause Effects ☒ No Historic Properties Affected ☐ No Adverse Effect ☐ Adverse Effect

Comments:

If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.

Authorized Signature: Nanci Mulo, DSHPO

Date: 11/7/19

National Flood Hazard Layer FIRMette

43°41'3.57"N



Legend

SEE THIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A V, A59
With BFE or Depth Zone AE, AO, AH, VE, AR
Regulatory Floodway

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with draining areas of less than one square mile (Zone X)

Future Conditions 1% Annual Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Levee, See Notes, Zone X
Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

OTHER AREAS

- NO SCREEN
Area of Minimal Flood Hazard Zone X
Effective LOMRs
Area of Undetermined Flood Hazard Zone

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance
Water Surface Elevation
Coastal Transect
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transect Baseline
Profile Baseline
Hydrographic Feature

MAP PANELS

- Digital Data Available
No Digital Data Available
Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/15/2020 at 9:24:40 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and undetermined areas cannot be used for regulatory purposes.



NEW HAMPSHIRE NATURAL HERITAGE BUREAU
NHB DATACHECK RESULTS LETTER

To: Zach Cronin, City of Portsmouth
680 Peverly Hill Road
Portsmouth, NH 03801

From: NH Natural Heritage Bureau

Date: 8/6/2019 (valid for one year from this date)

Re: Review by NH Natural Heritage Bureau of request submitted 7/23/2019

NHB File ID: NHB19-2335

Applicant: Zach Cronin

Location: Portsmouth

Tax Maps: Tax Map 206 Lot #20

Project

Description: This project will move the domestic and fire services for the Little Harbor School off of an aged water main that will be abandoned. The new water main will be constructed outside of the wetland buffer zone, but the existing services that need to be connected to are under a parking lot, located in the 100' wetland buffer zone.

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.

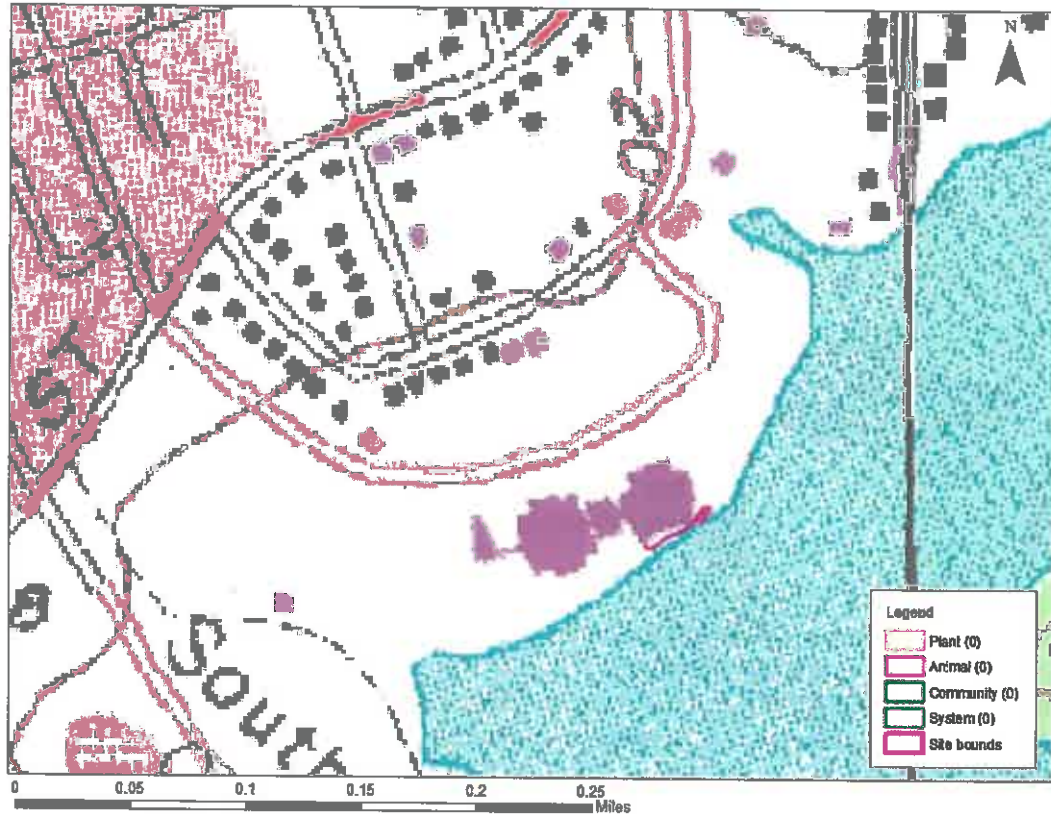
It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 7/23/2019, and cannot be used for any other project.



NEW HAMPSHIRE NATURAL HERITAGE BUREAU
NHB DATACHECK RESULTS LETTER

MAP OF PROJECT BOUNDARIES FOR: NHB19-2335

NHB19-2335

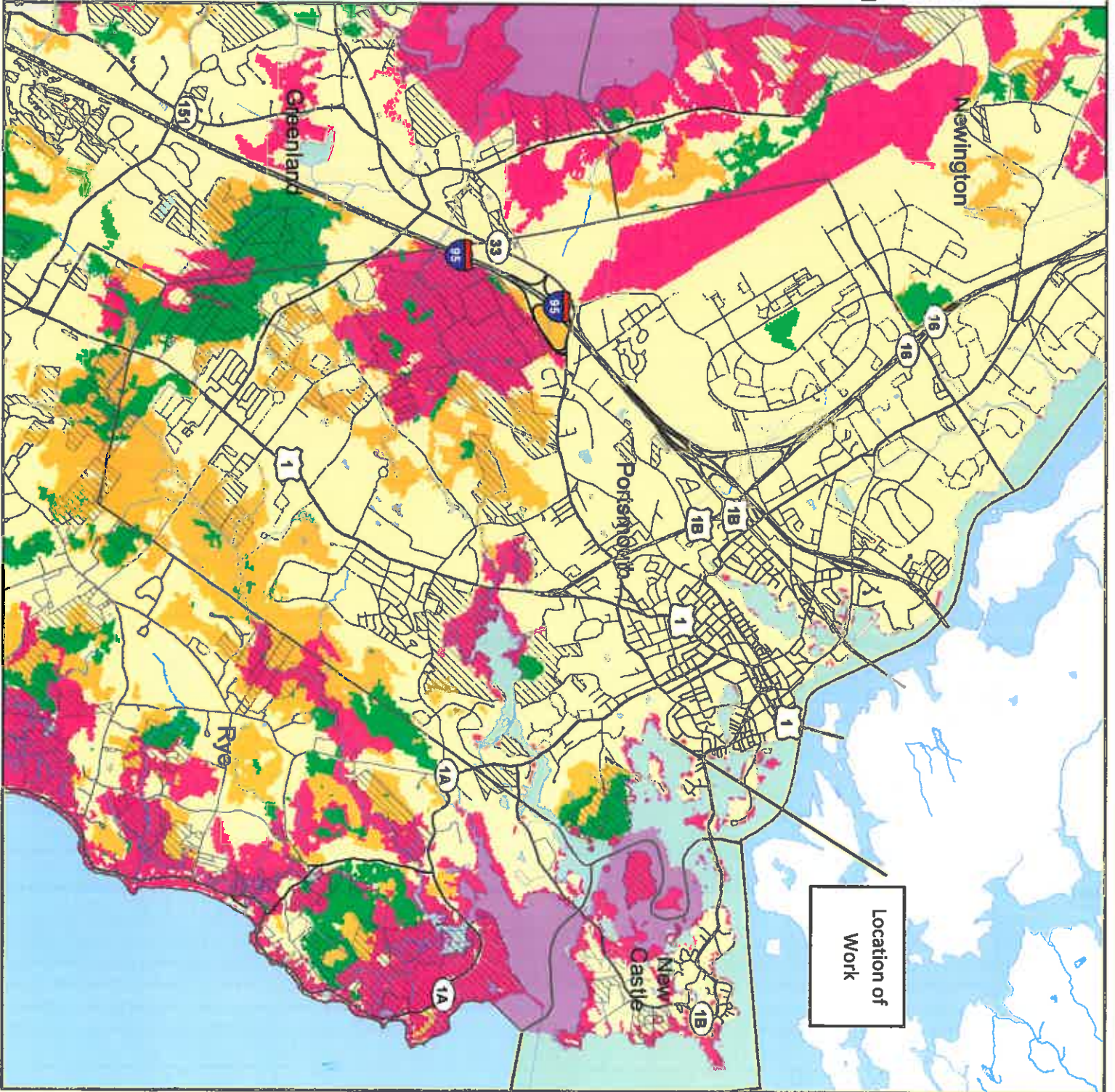
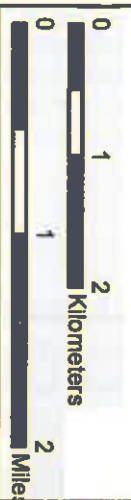


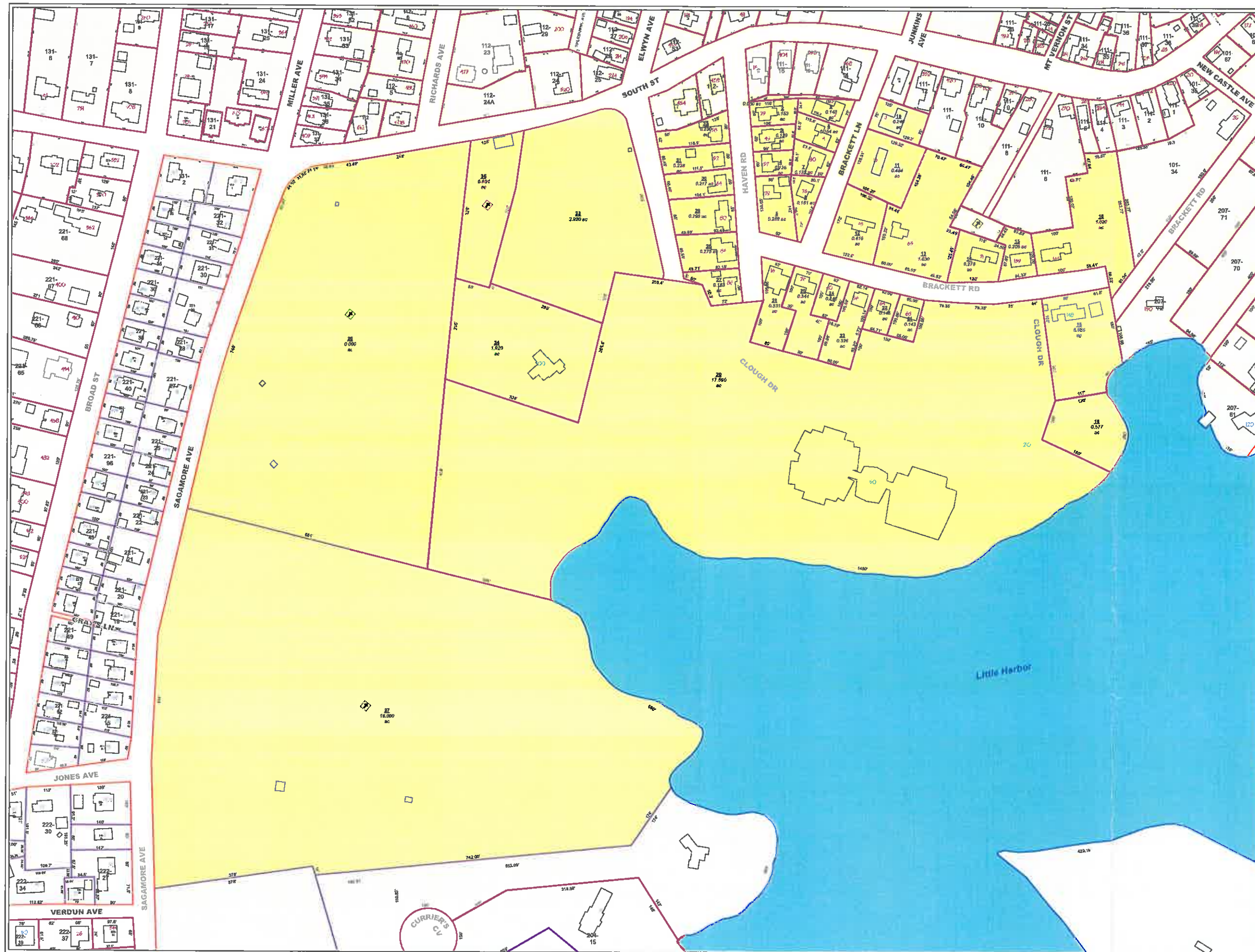
2015 HIGHEST RANKED WILDLIFE HABITAT BY ECOLOGICAL CONDITION

- █ Highest Ranked Habitat in New Hampshire
- █ Highest Ranked Habitat in the Biological Region
- █ Supporting Landscapes
- █ Conservation or public

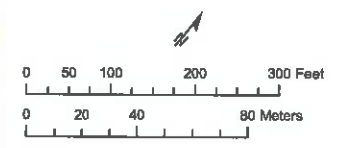
Biological region = TNC ecoregional subsection for terrestrial habitats or Aquatic Resource Mitigation region for wetlands and floodplain forest.

Base map data provided by NH GRANIT (2015)
Not intended for legal use.

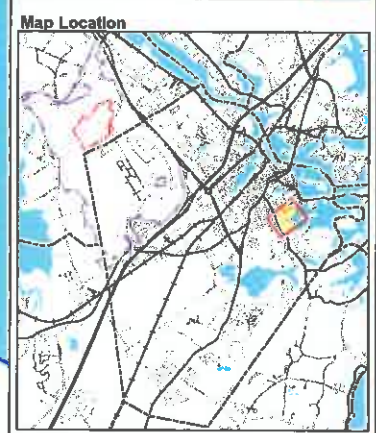
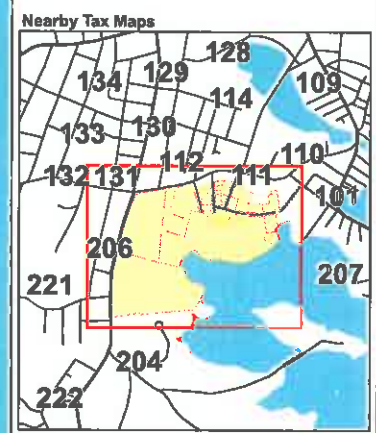




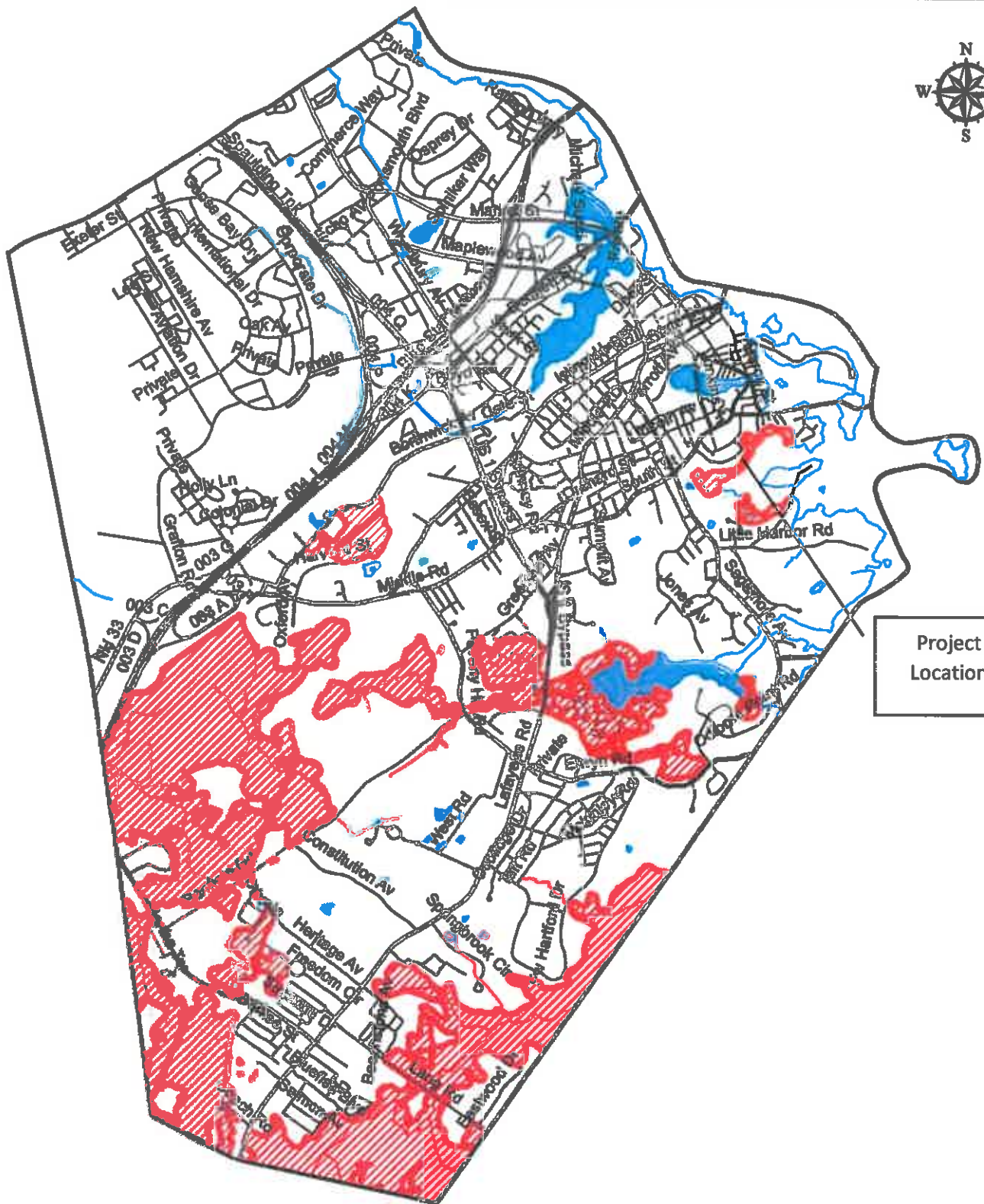
- Partial Legend**
See the cover sheet for the complete legend.
- 7-5A Lot or lot-unit number
 - 2.56 ac Parcel area in acres (ac) or square feet (sf)
 - 75 Address number
 - 233-137 Parcel number from a neighboring map
 - or Parcel line dimension
 - SIMS AVE Street name
 - Parcel/Parcel boundary
 - Parcel/ROW boundary
 - Water boundary
 - Structure (1994 data)
 - Parcel covered by this map
 - Parcel from a neighboring map (see other map for current status)



This map is for assessment purposes only. It is not intended for legal description or conveyance. Parcels are mapped as of April 1. Building footprints are 2006 data and may not represent current structures. Streets appearing on this map may be paper (unbuilt) streets. Lot numbers take precedence over address numbers. Address numbers shown on this map may not represent posted or legal addresses.



Portsmouth, New Hampshire
2018
Tax Map 206



Project
Location

Legend

Roads

- Town
- State

Hydrography

- Surface Water

Prime Wetland

100 Foot Buffer

- NO
- YES
- 100 Foot Buffer

Prime Wetlands in Portsmouth, NH

New Hampshire State Plane Coordinate System
North American Datum 1983 (feet)

The coverages presented are under constant revision as new sites or facilities are added, and may not contain all potential or existing sites or facilities. These maps were prepared using data supplied by the municipality and the information was digitized to the best of our ability. For prime wetland and prime wetland buffer locations for a specific site, please contact the municipal office where the project is proposed. NHDES is not responsible for the use or interpretation of this information by third parties.

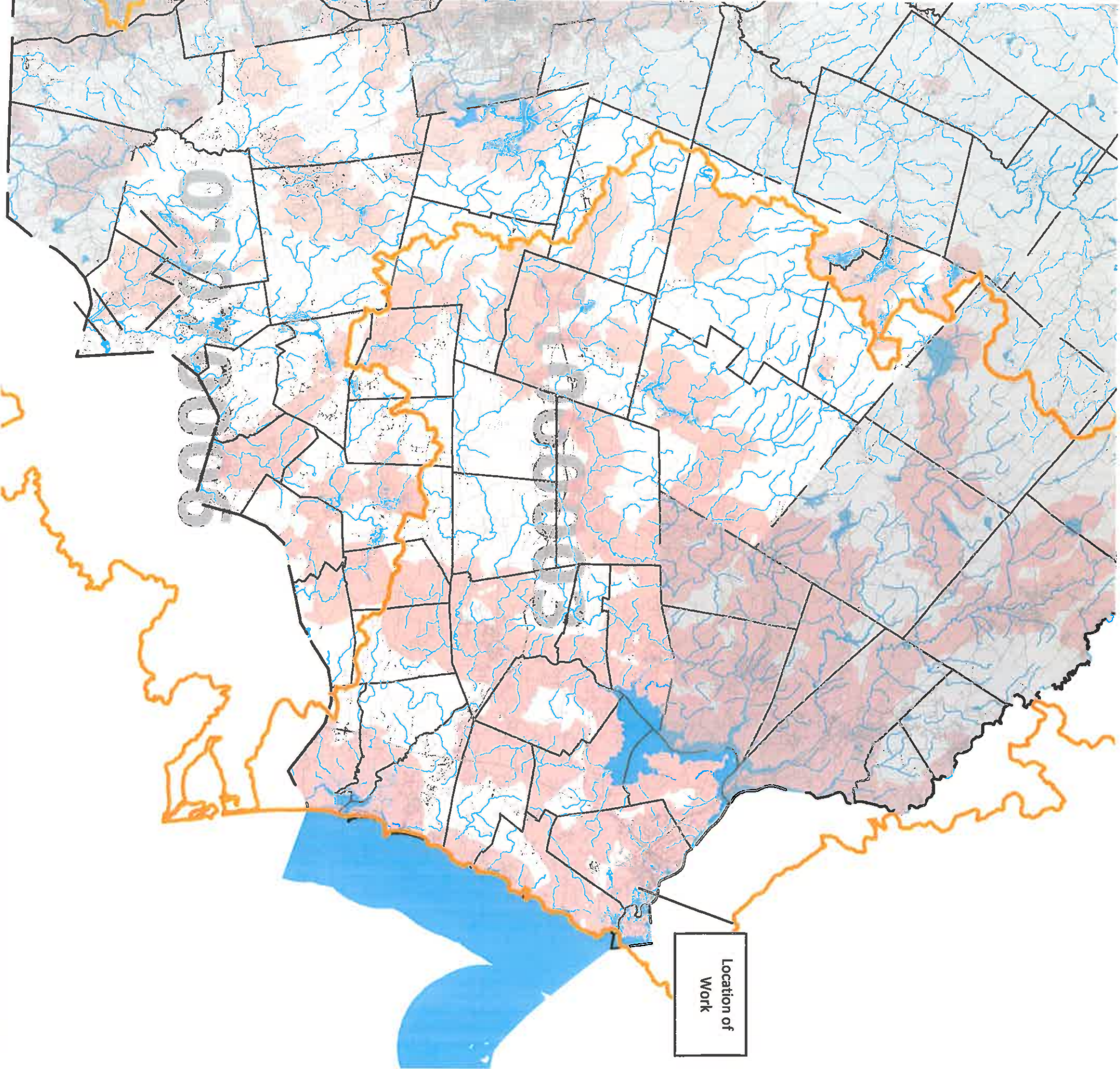


New Hampshire Department
of Environmental Services
Wildlands Bureau
20 Hiram Drive
P.O. Box 95
Concord, NH 03302-0095

DATE PRODUCED
October, 2012



Rockingham County: Impaired Waters Vicinity* for which No Additional Loading Criteria Applies



*Vicinity based upon a 1 mile buffer of Assessment Units impaired in the 2006 SWQA for one or more of the following;

- Invertebrates,
- Cadmium,
- Chlorophyll *a*,
- Copper,
- Cyanobacteria,
- Dissolved Oxygen (% Sat or mg/L),
- Enterococcus,
- *E. coli*,
- Algal Growth,
- Fecal Coliform,
- Lead,
- Total Phosphorus,
- Sedimentation & Siltation,
- Zinc.

For more information on the 2006 Surface Water Quality Assessments see:

<http://des.nh.gov/wmb/swqa/>



- Major Divides (HUC8)
- Roads(NHDOT)
- State Boundary
- County Boundary
- Town Boundary
- 2006 Assessment Unit ID Lines (1:100k NHD)
- 2006 Assessment Unit ID Polygons(1:100k NHD)
- One Mile Buffer on No Additional Loading AUIDs

This map is intended solely as a screening tool to assist you in identifying areas within 1 mile upstream in the watershed of an impaired waterbody. This map is not intended to show analytical results regarding pollutant loading or any other information related to sections 305(b) or 401 of the Clean Water Act or any other State or federal laws.

The coverages presented in this program are under constant revision as new sites or facilities are added. They may not contain all of the potential or existing sites or facilities. The Department is not responsible for the use or interpretation of this information, nor for any inaccuracies.

Map Prepared July 17, 2007.

Locus Map



Project Location:



Location of disturbances with keyed photographs shown on plan

Photographs



Photo 1: Location of Proposed Domestic Water Service Connection

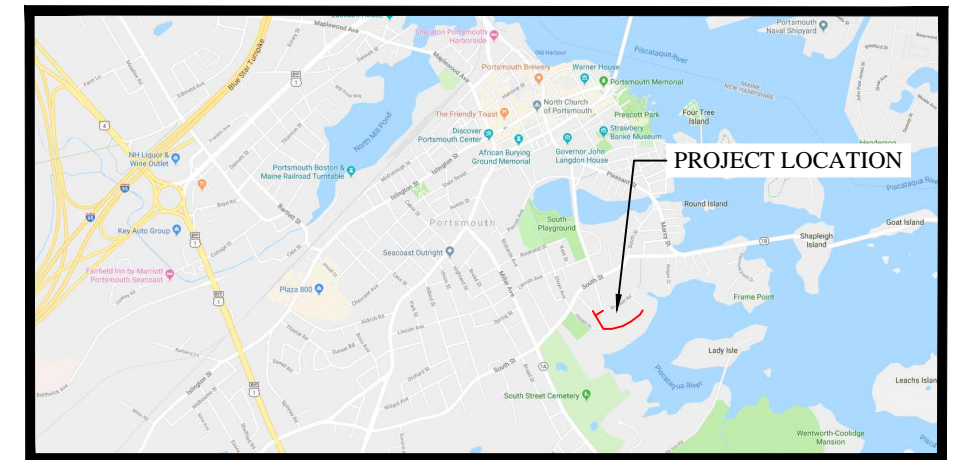


Photo 2: Location of Proposed Fire Service Tap and Connection

PROJECT 1170 CLOUGH DRIVE WATER MAIN RECONSTRUCTION



**DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
2019 - 2020**



LOCUS MAP

INDEX:

SHEET 2 GENERAL NOTES
SHEET 3 CLOUGH DRIVE
SHEET 4-5 CONSTRUCTION DETAILS

CONTACT NUMBERS:
PUBLIC WORKS: 427-1530
WATER DEPARTMENT 427-1552
POLICE DETAILS: 610-7412
PROJECT FLAGGING: 603-622-9302
GAS EMERGENCY: 866-900-4115
EMERGENCY: 911

GENERAL NOTES

1. THIS PLAN IS BASED ON THE CITY OF PORTSMOUTH GIS FLYOVER IMAGE PROVIDED BY NH GRANIT. EXISTING UTILITIES THAT ARE SHOWN ON THE PLANS WERE GATHERED FROM THE MOST UPDATED CITY OF PORTSMOUTH GIS DATA AVAILABLE. THE WETLAND AREAS THAT ARE SHOWN ON THE PLANS WERE GATHERED FROM NH GRANIT GIS DATA. THERE IS NO GUARANTEE THAT THE UTILITIES SHOWN ARE EXACTLY AS PORTRAYED OR THAT OTHER UTILITIES THAT ARE NOT SHOWN DON'T EXIST. ALL THE STRUCTURES SHOWN HAVE MULTIPLE SERVICES AND MAY HAVE OLD CONNECTIONS THAT MAY HAVE NOT BEEN PROPERLY ABANDONED. THE BIDDER SHOULD ASSUME THAT EXTREME CAUTION AND HAND EXCAVATION MAY BE REQUIRED. NO EXTRA PAYMENTS WILL BE MADE FOR EXPLORATION OF DEFUNCT UTILITIES LEFT IN THE GROUND.

2. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, PROTECTION AND REPAIR (IF DAMAGED) OF THE EXISTING UTILITY INFRASTRUCTURE WITHIN THE BOUNDS OF THE PROJECT ONCE CONSTRUCTION HAS BEGUN. NOTIFY DIG SAFE AT LEAST 72 HOURS PRIOR TO THE BEGINNING OF EXCAVATION WORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF CONFLICTS EXIST BETWEEN THE EXISTING AND PROPOSED UTILITIES.

3. ALL CONFLICTS WITH GAS LINES SHALL BE COORDINATED WITH UNITIL, THE GAS COMPANY, AND SHALL BE SUBSIDIARY. LOCATIONS OF THE GAS LINES ARE NOT SHOWN ON THESE PLANS.

4. THE CONTRACTOR SHALL MAINTAIN ONE PASSABLE LANE AND SAFE PASSAGE FOR RESIDENTS TO AND FROM THEIR BUSINESSES AND DWELLINGS IN THE NEIGHBORHOOD. WORK THAT REQUIRES THE COMPLETE SHUT DOWN OF THE STREET HAS TO BE APPROVED BY THE ENGINEER PRIOR TO THE WORK COMMENCING.

5. THE STREETS IN THE PROJECT AREA WILL BE PASSABLE AND SAFE IN THE OPINION OF THE ENGINEER PRIOR TO WORK TERMINATING AT THE END OF THE DAY.

6. THE USE OF STEEL PLATES IN LIEU OF BACKFILLING WILL NOT BE ALLOWED UNLESS APPROVED BY THE DIRECTOR OF PUBLIC WORKS AHEAD OF TIME.

7. THESE PLANS HAVE BEEN CREATED TO BE USED TOGETHER WITH THE CONSTRUCTION STANDARD DETAILS TO CREATE ONE COMPLETE BID AND CONSTRUCTION DOCUMENT.

8. THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL MATERIALS TO BE USED ON THIS PROJECT. THE CONTRACTOR SHALL NOT PURCHASE ANY MATERIALS UNTIL THEY HAVE BEEN APPROVED FOR USE BY THE DEPARTMENT.

9. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL SURPLUS EARTHEN MATERIALS, PIPE, UNUSED CURBING, LEDGE, OLD OR UNUSED SEWER AND DRAINAGE STRUCTURES ETC.

10. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL PROPERTY RESTORATION BOTH PUBLIC AND PRIVATE FOR DAMAGE DONE BY THE CONTRACTOR. RESTORATION WILL COMPLETED WITH NO COST TO THE CITY.

11. TEMPORARY OR PERMANENT PAVING WILL BE RESTORED TO EXISTING LINE AND GRADE UNLESS DIRECTED BY THE ENGINEER.

12. OVERHEAD WIRES ARE NOT SHOWN ON THE DRAWINGS AND THE CITY MAKES NO WARRANTY THAT THEIR HEIGHT IS SUFFICIENT TO COMPLETE THE WORK. POLES THAT NEED TO BE HELD UP BY THE UTILITY COMPANY WILL BE PAID FOR BY THE CONTRACTOR WITH NO ADDITIONAL COST PASSED ON TO THE CITY.

13. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REINSTALLATION OF TRAFFIC AND CONSTRUCTION SIGNS AS NEEDED TO ACCOMPLISH THE WORK. CITY SIGNS (STOP, NO PARKING, ONE WAY, ETC) NEED TO BE REINSTALLED AT THE END OF EACH WORKDAY.

14. PROVIDE A SCHEDULE, SEQUENCE OF INSTALLATION, AND MATERIAL SUBMITTALS TO THE DEPARTMENT FOR REVIEW. MARK OUT AND CALL IN DIG SAFE. PREPARE FOR A PRECONSTRUCTION MEETING TO BE HELD WITH THE NEIGHBORHOOD. THE PERSON IN RESPONSIBLE CHARGE FOR THE PROJECT SHOULD PLAN ON ATTENDING THE MEETING.

15. THIS PROJECT HAS BEEN DESIGNED TO BE CONSTRUCTED USING A TEMPORARY WATER MAIN SYSTEM. THE CITY GENERALLY EXPECTS THAT THE CONNECTIONS TO INDIVIDUAL HOMES WILL BE MADE UNDERGROUND AND NOT TO SILLCOCKS. HOOK UP, FLUSH AND CHLORINATE THE SYSTEM. THE DEPARTMENT WILL DETERMINE THE BEST WATER SOURCE. AFTER A CHEMICAL TEST IS TAKEN BY THE CITY AND THE WATER IS PROVED TO BE ACCEPTABLE, TIE INS TO THE TEMPORARY SYSTEM CAN TAKE PLACE.

16. DISPOSE OF SURPLUS AND UNSUITABLE MATERIALS AS THE WORK PROGRESSES. STOCKPILES WILL NOT BE ALLOWED ON SITE UNLESS APPROVED BY THE ENGINEER AHEAD OF TIME. EXCAVATED MATERIALS WILL BE LOADED INTO TRUCKS AND TAKEN AWAY AS WORK PROGRESSES IN ORDER TO KEEP THE ROAD PASSABLE.

17. INSTALL TEMPORARY EROSION CONTROL DEVICES.

18. CONTRACTOR IS TO MAINTAIN DRY AND STABLE TRENCH CONDITIONS AT ALL TIMES. A DE-WATERING PLAN MUST BE PROVIDED AND APPROVED BY THE ENGINEER.

19. INSTALL EITHER CRUSHED GRAVEL OR RECLAIM MATERIAL OVER TRENCHES AT NIGHT. THE ROAD SHALL BE FLAT AND COMPACTED FIRM EACH NIGHT.

20. RESTORE ROAD DRAINAGE AT NIGHT PRIOR TO LEAVING.

21. IT IS THE INTENT OF THIS PROJECT TO HAVE ALL THE UTILITIES INSTALLED, THE ROAD BINDER PAVED, VALVE BOXES UP TO GRADE AND THE SIDEWALKS AND LOAM ALL INSTALLED PRIOR TO THE START OF THE 2019-2020 CITY OF PORTSMOUTH SCHOOL YEAR. THE FOLLOWING MAY, FINAL PAVING AND CLEANUP WILL COMMENCE WHEN TEMPERATURES ALLOW. ASSUME THAT ALL VALVE BOXES AND COVERS WILL NEED TO BE SET TWICE, ONCE FOR BINDER GRADE AND AGAIN FOR FINISH GRADE.
22. ALL WATER SERVICES SHALL BE TAPPED WITH A 1" CORP AND BE 1" COPPER UNLESS THE EXISTING SERVICE IS LARGER.

23. NO WORK SHALL BE PERFORMED ON PRIVATE PROPERTY UNTIL THE OWNER HAS SIGNED A MEMORANDUM OF UNDERSTANDING WITH THE CITY.

24. THE CONTRACTOR SHALL PHASE THE CONSTRUCTION OF THE WATER TO MINIMIZE DISRUPTION TO THE EXISTING SYSTEM. THE SYSTEM SHALL NOT BE IMPACTED OR SHUT DOWN WITHOUT PROPER NOTICE AND ANY DAMAGE CAUSED BY A SHUTDOWN WILL BE PAID FOR BY THE CONTRACTOR. MAINTENANCE OF THE WATER FLOW IS SUBSIDIARY TO THE WORK.

25. WATER SHUT DOWN NOTICES SHALL BE 3 WEEK DAYS IN ADVANCE OF THE SHUTDOWN.

26. THE WATER MAINS SHALL CONSTRUCTED OF CEMENT LINED DUCTILE IRON.

27. WATER SERVICE BOXES SHALL BE SET 1/4" BELOW GRADE IN THE SIDEWALK SURFACE AND 1/2" BELOW GRADE IN LAWN OR GRASS AREA.

28. ALL EXISTING PIPES TO BE ABANDONED IN PLACE SHALL BE PLUGGED AT ALL OPEN AREAS TO STOP THE FLOW OF WATER INTO THE ABANDONED PIPE.

29. THE SYSTEM WILL BE TESTED FOR LEAKS AND FLAWS PRIOR TO ACCEPTANCE BY THE CITY.

30. THE SYSTEM WILL BE BACTERIA TESTED IN ACCORDANCE TO AWWA 651 CURRENT VERSION PRIOR TO ACCEPTANCE BY THE CITY.

31. ALL EXISTING WATER GATE BOXES SHALL BE SET TO FINAL GRADE DURING THE ROAD WORK OPERATION.

32. ALL GATE VALVES SHALL BE RESTRAINED WITH MECHANICAL JOINTS AND SHALL OPEN RIGHT (CLOCKWISE).

33. ALL TEES, BENDS GATES AND CAPS SHALL BE USED WITH MECHANICAL RESTRAINT JOINTS AND REINFORCED WITH THRUST BLOCKING.

34. MAINTAIN A MINIMUM DISTANCE OF 10' BETWEEN THE SEWER AND THE WATER SYSTEM EXCEPT FOR CROSSINGS WHICH SHALL BE CONSTRUCTED PER THE CURRENT STATE APPROVED RULES.

35. ALL PORTIONS OF THE NEW DUCTILE IRON WATER MAIN SYSTEM SHALL BE PROTECTED USING PLASTIC WRAPPINGS AND BRASS CONDUCTIVITY WEDGES.

36. ADD FITTINGS AS NECESSARY TO ENSURE THAT VALVES ARE INSTALLED NEARLY LEVEL.

37. CURBSTONES SHALL BE REMOVED AND ANY PIECES 4' OR LONGER SHALL BE RETAINED FOR FUTURE REUSE ONSITE.

38. EXISTING SIDEWALKS SHALL BE REMOVED AND A GRAVEL WALKING SURFACE WILL NEED TO BE MAINTAINED FOR THE DURATION OF THE PROJECT. THIS SURFACE SHALL BE MAINTAINED AT A LEVEL HIGHER THAN THE ROAD TO PREVENT PUDDLES IN THE WALKING SURFACE AND TO PROTECT BASEMENTS FROM SURFACE FLOW THAT COULD CAUSE FLOODING.

39. AFTER UTILITY CONSTRUCTION IS COMPLETE, BOX OUT AND REMOVE THE EXISTING SOILS IN ACCORDANCE TO THE PLAN AND CROSS SECTION AND REPLACE THE SOILS WITH GRAVELS AND/OR RECLAIM IF APPROVED FOR REUSE.

40. THE INTENT IS THAT SIDEWALK GRADES WILL REMAIN MORE OR LESS AT THERE EXISTING LEVEL AND THE ROAD WILL BE LOWERED SLIGHTLY TO ACHIEVE A 6" FINISH CURB REVEAL. THE PROFILE GRADES SHOWN ARE AN ATTEMPT TO DISPLAY THIS GOAL. ACTUAL FIELD CONDITIONS MAY DICTATE MINOR DIVERGENCE FROM THE PLAN GRADES.

41. CONCRETE SIDEWALKS ON THIS PROJECT ARE TO BE PORTLAND CEMENT, 4000 PSI CLASS AA, SEE STATE AND LOCAL SPECIFICATIONS. WALKWAYS TO HOUSES WILL MATCH EXISTING UNLESS DIRECTED. USE HANWORK ASPHALT, CONCRETE SIDEWALK OR BRICK SIDEWALK AS APPROPRIATE.

42. ALL EXISTING CURBSTONES LONGER THAN 4' WILL BE REUSED FIRST. ADDITIONAL GRANITE WILL BE PURCHASED TO MAKE UP THE DIFFERENCE, WHERE APPLICABLE.

43. ALL DRIVEWAYS WILL RECEIVE TWO COATS OF ASPHALT, BINDER AND TOP. THE BITUMINOUS ASPHALT SHALL BE 3" THICK IN DRIVEWAYS. DO NOT REMOVE OR PAVE DRIVEWAYS BEYOND THE PROPERTY LINE UNLESS DIRECTED BY THE ENGINEER.

44. THE ROAD PAVING WILL BE PLACED AT A TOTAL OF AT LEAST 4" THICK. DO NOT EXCEED 4" UNLESS DIRECTED TO DO SO. MIX DESIGNS FOR ALL PAVEMENTS WILL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THE CONTRACT AND THE NHDOT STANDARD SPECIFICATIONS AND ALL MIX DESIGNS WILL BE APPROVED BY THE DEPARTMENT AT LEAST 48 HOURS PRIOR. ANY PAVEMENT PLACING OF 100 TONS OR MORE WILL NEED TO BE COORDINATED FOR PAVEMENT TESTING AND INSPECTION.

45. ALL SIDEWALKS WILL BE CONSTRUCTED TO ADA STANDARDS AND CROSS SLOPES SHALL NOT EXCEED 2%.






























46. ALL SIGNS REMOVED DURING THE PROJECT WILL BE REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST. PUBLIC WORKS MAY PRODUCE NEW SIGNS AND POSTS AT THEIR DISCRETION PRIOR TO INSTALLATION.


47. PAVEMENT WILL NOT BE PLACED AT SURFACE TEMPERATURES COLDER THAN 40 DEGREES F FOR BINDER OR 50 DEGREES F FOR SURFACE MIXES. IF PAVING IS ALLOWED, IT IS THE CONTRACTORS RESPONSIBILITY TO COMPACT THE ASPHALT PROPERLY BEFORE IT SETS.

48. CONCRETE SIDEWALKS WILL NOT BE POURED IF FREEZING TEMPERATURES ARE EXPECTED WITHIN 24 HOURS. ALL CONCRETE SIDEWALKS WILL BE COVERED WITH PLASTIC FILM FOR 3 DAYS AFTER PLACEMENT. PLASTIC WILL BE SECURED AS NOT TO BLOW OFF OR GET TRIPPED ON.

49. PUBLIC SAFETY IS A PRIORITY. THE CONTRACTOR WILL SUPPLY THE PROPER HAZARD WARNINGS AS ADVISED. IT IS THE DUTY OF THE CONTRACTOR'S SAFETY COORDINATOR TO PREVENT PERSONAL INJURY OR DAMAGES TO THE RESIDENTS.

LEGEND

EXISTING	PROPOSED		EXISTING	PROPOSED	
		WATER GATE VALVE			WATER MAIN
		SEWER MANHOLE			SEWER FORCE MAIN
		STORM WATER FILTER UNIT			SEWER MAIN
		CATCH BASIN			LITTLE HARBOR SCHOOL WATER SERVICE
		STORM WATER MANHOLE			STORM SEWER MAIN
		STORM WATER INLET/OUTLET			PARCEL TO ROAD BOUNDARY
		PERMITTED STORM WATER OUTFALL			PARCEL TO PARCEL BOUNDARY
		DOMESTIC WATER SERVICE CURB STOP & BOX			WETLAND BUFFER ZONE
		HYDRANT			HIGH WATER MARK
		CLDI SOLID SLEEVE			SURFACE STORM WATER FLOW
		CLDI REDUCER			STRAW WATTLES
		CLDI CAP			
		STORM WATER SURFACE JUNCTION			
		SILT SACK			



DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH

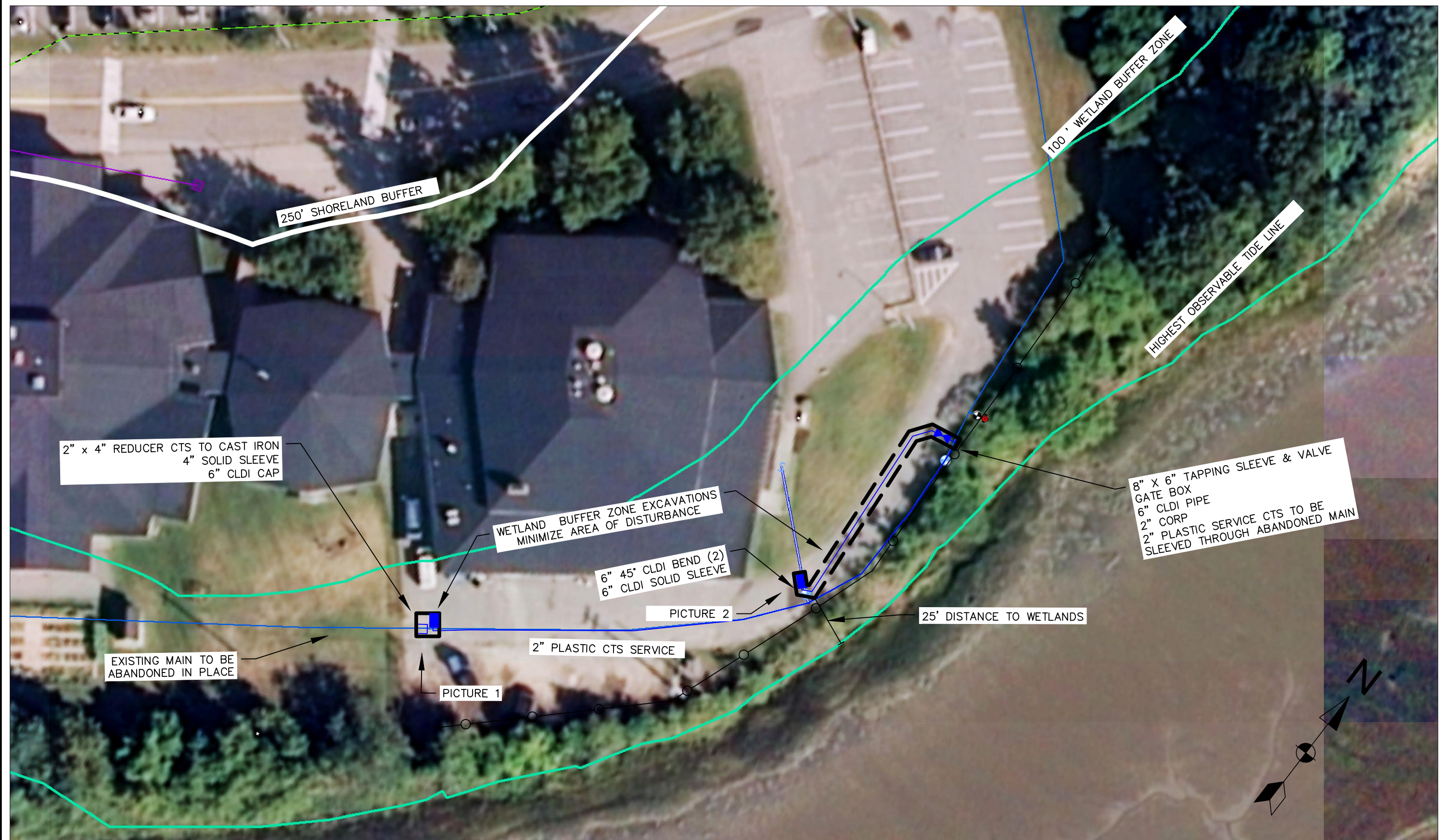
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APPROVED BY:

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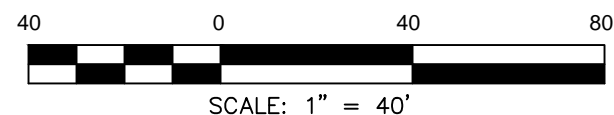
GENERAL NOTES
OF
CLOUGH DRIVE
WATER MAIN
PORTSMOUTH, NEW HAMPSHIRE
TAX MAP: 206 LOT: 20

10/31/2019



NOTES:

- 1: NEW SERVICE IS TO BE FED THROUGH EXISTING 6" WATER MAIN TO BE ABANDONED TO MINIMIZE WETLAND BUFFER AREA IMPACT. AT THE LOCATION OF THE DOMESTIC SERVICE TO THE SCHOOL THE EXISTING MAIN SHALL BE CUT AND CAPPED TO THE WEST. THE NEW SERVICE TUBING SHALL BE CONNECTED TO THE EXISTING COPPER SERVICE IN THE SAME TRENCH.



DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH

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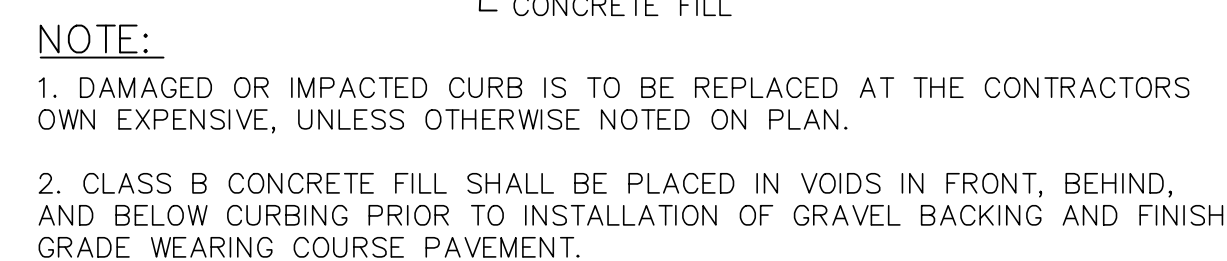
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CLOUGH DRIVE
WATER MAIN
PORTSMOUTH, NEW HAMPSHIRE
TAX MAP: 206 LOT: 20

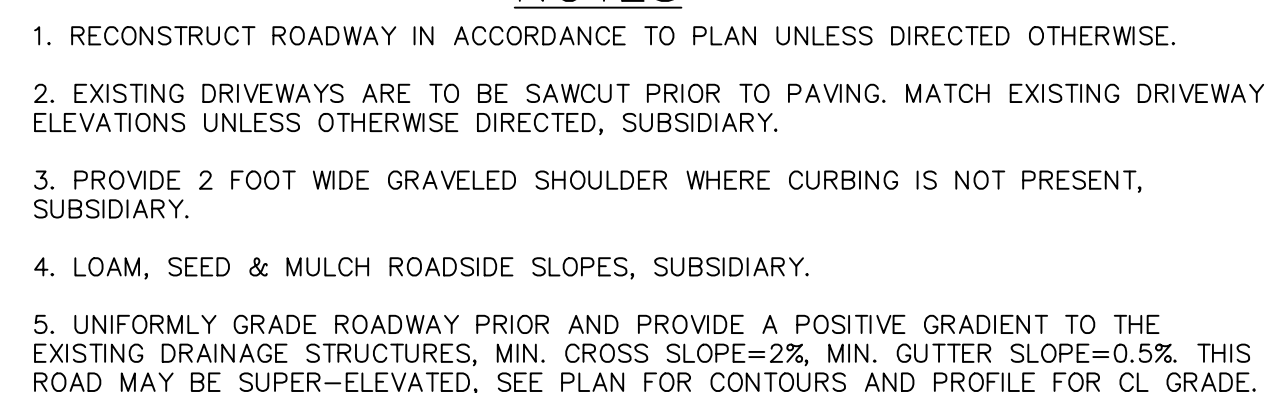
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10/31/2019

SHEET 3 OF 5



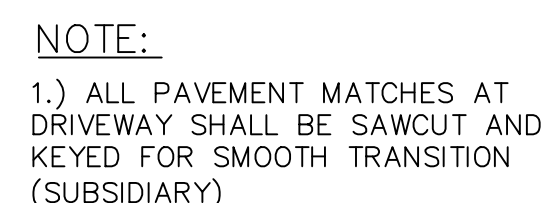
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PAVEMENT RECONSTRUCTION &
FULL WIDTH PAVING DETAIL
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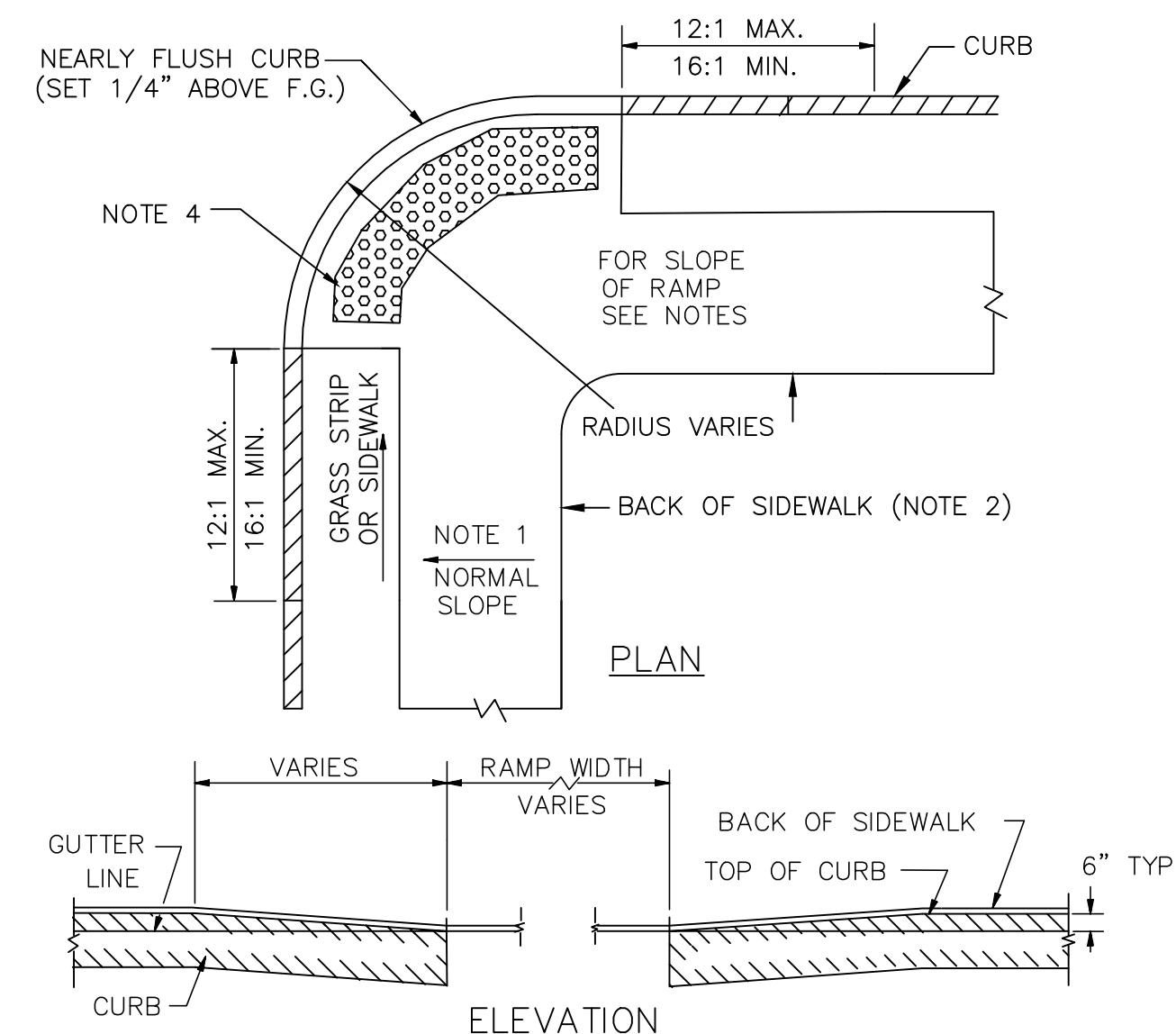
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1. PAVEMENT & GRAVEDEPTHS FOR RESIDENTIAL DRIVES SHALL BE 8" CRUSHED GRAVEL WITH 3.0" H.B.P. (HAND METHOD) IN TWO LIFTS 2" OF BINDER AND 1" OF TOP.
2. CURBING CAN BE FLARED TO FIT DRIVE RADII IF APPROPRIATE OR ENDED AS DETAILED ABOVE.
3. DRIVEWAY CURB CUTS SHALL MATCH EXISTING APRON WIDTHS UNLESS OTHERWISE DIRECTED.
4. FOR UNPAVED DRIVES, THE PAVED APRON NORMALLY ENDS AT THE RADIUS TANGENT POINT OR BACK OF SIDEWALK, WHICHEVER IS GREATER.



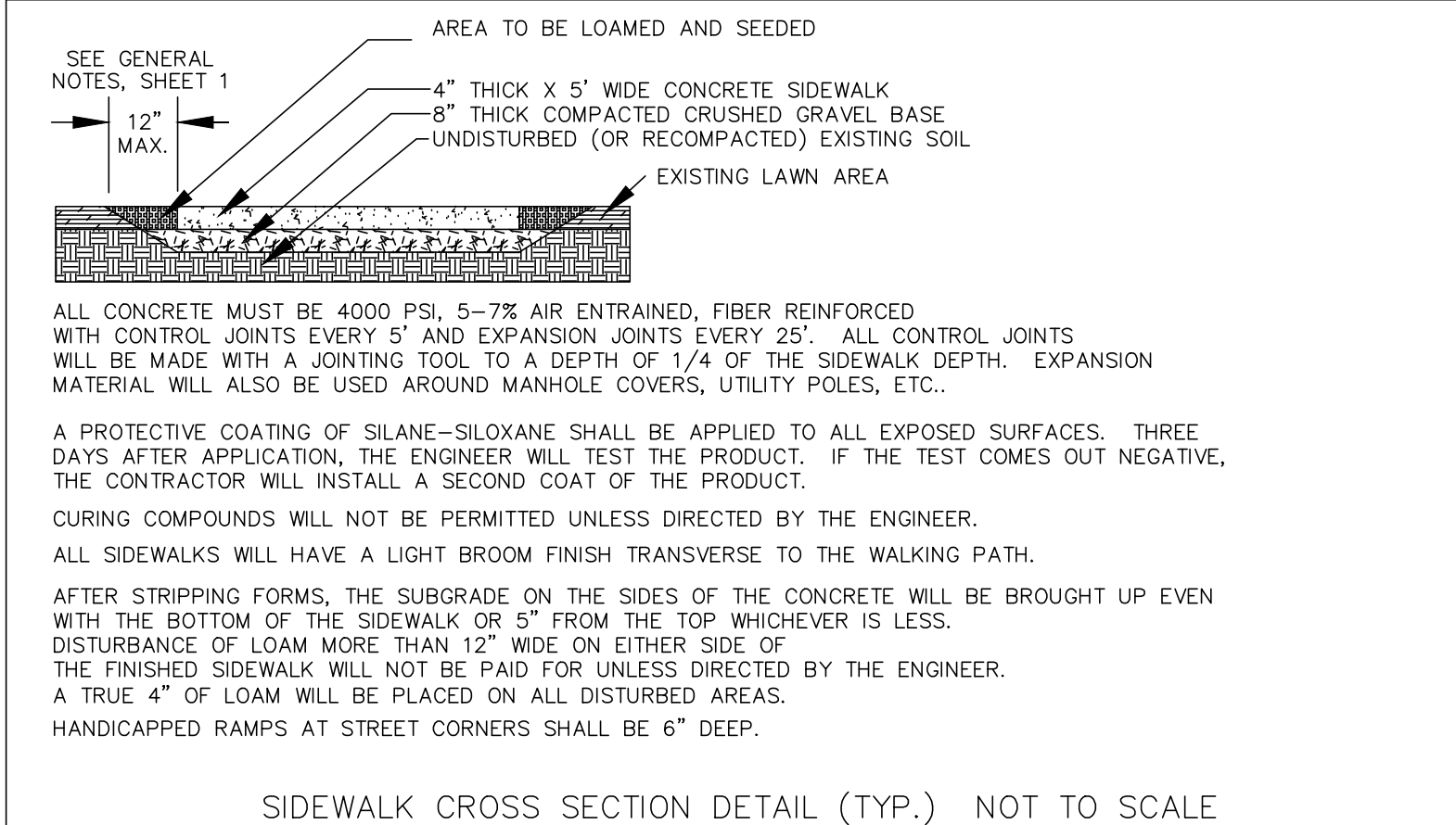
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GENERAL NOTES

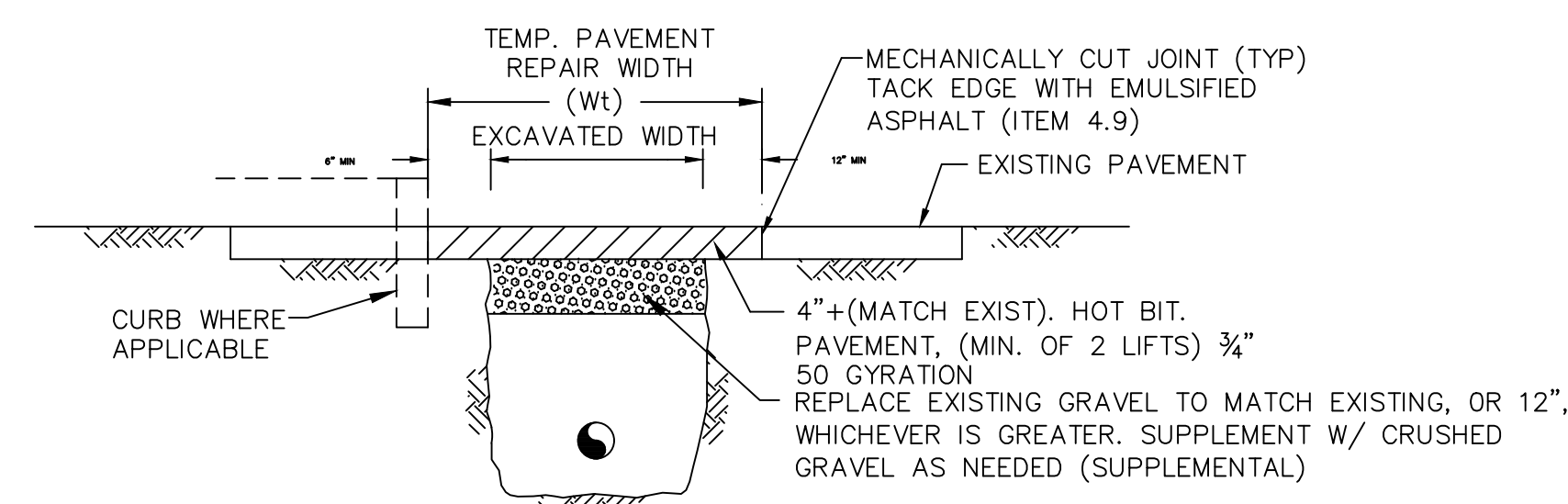
1. THE MAXIMUM RUNNING SLOPE OF ANY SIDEWALK CURB RAMP IS 12:1, THE MAXIMUM CROSS-SLOPE IS 2%.
2. TRANSITIONS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. REFER TO CROSS SECTION PLANS (TO BE PROVIDED) FOR ROADWAY SHOULDER SLOPES ADJOINING SIDEWALK.
3. THE BOTTOM OF THE SIDEWALK CURB RAMP OR LANDING, EXCLUSIVE OF THE FLARED SIDES, SHALL BE WHOLLY CONTAINED WITHIN THE LIMITS SHOWN ON THE DRAWINGS.
4. CORNER RAMPS ARE TO BE CONSTRUCTED WITH REINFORCED CONCRETE 6" DEPTH, TRUNCATED DOME PANEL SHALL BE FULL WIDTH OF RAMP AND SHALL BE CAST IRON.

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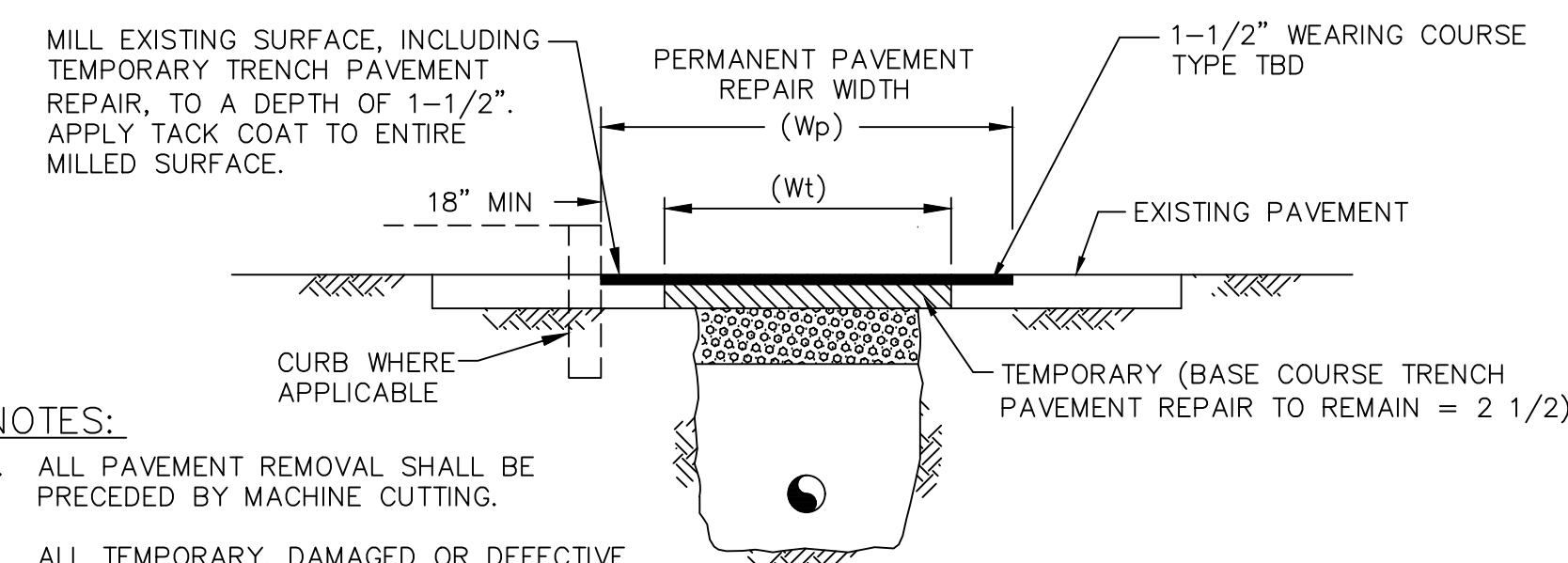


PIPE I.D.	Wt (INCHES)	Wp (INCHES)
1-21 INCHES	84	108
24-30 INCHES	96	120
> 30 INCHES	108	132

NOTE:
THE DIMENSIONS SHOWN SHALL BE CONSIDERED
MAXIMUM PAVEMENT PAYMENT WIDTHS FOR 0'-10'
DEEP CONSTRUCTION. W_t AND W_p SHALL BE
INCREASED BY 4'-0" FOR TRENCHES 10' TO 15' AND
BY 8'-0" FOR TRENCHES 15' TO 20' IN DEPTH.



NOT TO SCALE



NOT TO SCALE

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH

DESIGNED BY: ZMJC

APPROVED BY:

ROAD DETAILS
OF
CLOUGH DRIVE
WATER MAIN
PORTSMOUTH, NEW HAMPSHIRE
TAX MAP: 206 LOT: 20
SCALE: NOT TO SCALE 10/31/2019