

**REGULAR MEETING
CONSERVATION COMMISSION
1 JUNKINS AVENUE
PORTSMOUTH, NEW HAMPSHIRE
EILEEN DONDERO FOLEY COUNCIL CHAMBERS**

4:00 P.M.

March 13, 2024

AGENDA

I. APPROVAL OF MINUTES

1. February 14, 2024

II. WORK SESSIONS

1. 50 Clough Drive
City of Portsmouth, Owner
Assessor Map 206, Lot 20

III. WETLAND CONDITIONAL USE PERMIT APPLICATIONS (OLD BUSINESS)

1. **REQUEST FOR POSTPONEMENT**
224 Broad Street, Unit 3
Perkins Kwoka Joint Revocable Trust, Katelyn E. & Rebecca P. Kwoka Trustees,
Owners
Assessor Map 131, Lot 13

IV. WETLAND CONDITIONAL USE PERMIT APPLICATIONS (NEW BUSINESS)

110 Aldrich Road
Edward R. Reynolds, Owner
Assessor Map 153, Lot 3

V. STATE WETLAND BUREAU APPLICATIONS (NEW BUSINESS)

1. Dredge and Fill- Minor Impact
333 Borthwick Avenue
HCA Health Services of New Hampshire, Owner
Assessor Map 240, Lot 2-1
2. Dredge and Fill – Major Impact
53 Green Street
Stone Creek Realty, LLC, Owner
Assessor Map 119, Lot 2
3. Dredge and Fill – Major Impact

Public Service Company of NH, d.b.a Eversource Energy, Owner
Map 121 Lot 1, Map 165 Lot 14, Map 213 Lot 11, Map 214 Lots 1, 2, and 3, Map 216 Lots 1-10
and 1-11, Map 240 Lot 2-1, Map 259 Lots 1 and 15, Map 278 Lot 1, Map 280 Lot 3, and Map
281 Lot 1

VI. OTHER BUSINESS

1. Earth Day 2024
2. Sustainability Fair (April 14th, 2024 12-3 p.m.)
3. Swap Shop

VII. ADJOURNMENT

**Members of the public also have the option to join this meeting over Zoom, a unique meeting ID and password will be provided once you register. To register, click on the link below or copy and paste this into your web browser:*

https://us06web.zoom.us/webinar/register/WN_a7pYJ8NXRHy_GEW81UqSLA

**REGULAR MEETING
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1 JUNKINS AVENUE
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EILEEN DONDERO FOLEY COUNCIL CHAMBERS**

4:00 P.M.

February 14, 2024

MINUTES

Present: Samantha Collins, Chair; Barbara McMillian, Vice Chair; Members: Lynn Vaccaro, Adam Fitzpatrick, Jessica Blasko, Alice Carey, Stewart Sheppard,
Alternates: Brian Gibb, Talia Sperduto

[4:28] Chair Collins opened the meeting and welcomed the newest member of the Commission, Talia Sperduto, and noted that the Commission was now full.

I. APPROVAL OF MINUTES

1. January 10, 2024

[5:22] Ms. Blasko made a motion to approve the January minutes as presented. Vice Chair McMillan seconded the motion. The motion passed unanimously (7-0).

[5:44] Chair Collins announced that there had been two requests for postponements from applicants. The NHDES standard Dredge & Fill for 333 Borthwick Avenue and the work session for the Little Harbor School.

[6:09] Vice Chair McMillan made a motion to postpone the NHDES permit for 333 Borthwick Avenue to the next regular meeting. Ms. Carey seconded the motion. The motion passed unanimously (7-0).

[6:31] Ms. Blasko made a motion to postpone the work session for Little Harbor School until the next regular meeting. Mr. Sheppard seconded the motion. The motion passed unanimously (7-0).

II. WETLAND CONDITIONAL USE PERMIT APPLICATIONS (OLD BUSINESS)

1. 90 F.W. Hartford Drive
Amrishi & Andrea Chicooree, Owners
Assessor Map 269, Lot 45

[6:52] Chair Collins introduced this business item.

[7:02] Ash Chicooree, the property owner, came to present this application for an after the fact

wetland conditional use permit. Based on previous feedback from the Commission, Mr. Chicooree hired his wetland scientist to adjust his restoration plan to meeting the conditions of the Commission. These changes included calling out the location, size and species of proposed new plantings, addressing the no-mow zone, and the introduction of more native species such as white pines, maples and blueberries. This new plan includes two years of post-planting monitoring to be reported to the City to ensure the success of the restoration.

[9:44] Ms. Vaccaro asked about what would be happening in the T1 restoration area. Mr. Chicooree responded that the T1 area was jointly shared with his neighbor and was deemed outside the scope of this project. He and his neighbor would have to work together for restoration of this section and come back at a later point for a WCUP of the T1 area. Ms. Vaccaro followed up with a clarifying question on why trees were only being planted in the buffer, and not in the wetland as well. Mr. Chicooree noted that the condition from the Commission previously suggested planting in the 25' buffer which is what they addressed. Lastly, Ms. Vaccaro asked about the curved dotted line on the plans and what it represented. Mr. Chicooree responded that it represented the no-mow line and it would be depicted on the ground with some boulders to visually create a barrier as a reminder.

[12:35] Chair Collins noted that 21 trees had been removed but 21 plants were proposed to be planted, not just all trees. Additionally, this plan shows an additional 7 trees were removed from the 25-50' buffer but not planned to be replanted there. A conversation ensued about the locations of the proposed new plantings and how they mitigated the impacts of the removed trees.

[18:06] Ms. Vaccaro asked if the applicant would be willing to spread those proposed plantings out between the 25-50' space as well. He responded that he would and thinks it would be ideal.

[19:44] Chair Collins asked for an updated map with a clear delineation of the 100', 50' and 25' buffer. This should also include the existing shed location and the location of the T1 area for reference within the buffer setbacks.

[23:20] Ms. Blasko asked if the applicant had a timeframe for the proposed restoration work. Mr. Chicooree responded that mid-summer to early fall would be the ideal working timeframe. Chair Collins noted that the staff memo asked for a date for completion by June 30th.

[24:56] Vice Chair McMillan asked who the responsible party is for the monitoring for two years. Mr. Chicooree responded that it would be a wetland scientist.

[27:02] Ms. Blasko made a motion to recommend approval of the application to the Planning Board with the following conditions:

1. The applicant must include the 25, 50 and 100' wetland buffer delineation lines along with the location of the existing shed on the wetland delineation map.
2. The applicant will add an additional 7 trees to the planting plan, increasing it from 21 to 28 new plantings. These should be spread out between the 0-50' wetland buffer.

3. The applicant will put a note on the plans stating that all plantings will be planted by the end of June 2024 for best survival during the upcoming growing season.
4. The applicant will put a note in the plans that a certified wetland scientist will be responsible for the monitoring reports of the restoration project and for overseeing the initial planting process.
5. A monitoring report for the first two years after planting will be required to be submitted annually to the Planning and Sustainability Department. The first report shall be submitted after the restoration work has been completed. This report will include an update on all plant health, growth, and establishment. Additionally, it should include invasive management techniques, methods for irrigation and information on routine maintenance practices. The report must demonstrate at least an 80% survival rate of new plantings after the first two years of monitoring, if not, then replanting will be required.
6. A visual barrier will be placed on the property to designate where the 'no mow' line starts and ends.
7. In accordance with Section 10.1018.40 of the Zoning Ordinance, applicant shall install permanent wetland boundary markers. We suggest that these markers are placed along the 25' vegetative buffer at intervals of every 50 feet. These must be installed prior to the start of any construction. These can be purchased through the City of Portsmouth Planning and Sustainability Department.
8. If the existing shed is found to be within the 100' wetland buffer, a separate after the fact Wetland Conditional Use Permit will have to be applied for.
9. Prior to the removal of any tree stumps within the wetland and/or wetland buffer, the applicant will need to apply for a separate wetland conditional use permit.

Vice Chair McMillan seconded the motion. A discussion continued about the additional trees to be planted and a change to the plans to spread out the now 28 proposed plantings between the 0-50' buffer. Additionally, discussion on the existing shed and noting that if found to be within the wetland buffer, an additional after the fact permit will need to be sought. A separate permit would also be needed for stump removal within the buffer, as the removal of the roots system would entail ground disturbance.

Public Comment

[44:40] George Burke, property owner of 15 F.W. Hartford Drive, came to speak via Zoom on this application. Mr. Burke had previously worked on the HOA board for the neighborhood that Mr. Chicooree resided in and had previously told Mr. Chicooree that he would need City permission to do anything in his backyard as most of it was within the buffer. Mr. Chicooree's previous approval for the removal of 11 trees in 2020 was given by the HOA with the contingency that the property owner receives City approval as well. This was not received, and

the trees were removed regardless.

A discussion continued amongst the commissioners about previous tree removals and the decision was to move forward with the information and restoration plan in front of them, noting that what they had for a motion and conditions was adequate.

[49:42] Chair Collins called a vote for the motion. The motion was approved unanimously (6-0) with Ms. Carey not voting.

2. 224 Broad Street, Unit 3
Perkins Kwoka Joint Revocable Trust, Katelyn E. & Rebecca P. Kwoka Trustees,
Owners
Assessor Map 131, Lot 13

[51:48] Chair Collins introduced this application and announced that she would be recusing herself from the application. The applicant and/or their representatives were not present to speak to the application.

[53:24] Ms. Blasko made a motion to move the application to the end of the agenda in hopes that the applicant would be able to make it. Ms. Carey seconded the motion. The motion passed unanimously (7-0).

III. WETLAND CONDITIONAL USE PERMIT APPLICATIONS (NEW BUSINESS)

1. 300 Gosling Road
Public Service Company of NH, Owner
Assessor Map 214, Lot 3

[54:27] Conor Madison, from GZA Environmental Consultants, along with his colleague Kurt Nelson, came to present this application on behalf of Eversource. Mr. Madison came with a presentation on both the wetland conditional use permit for this project along with the NHDES standard dredge and fill permit, which would come before the Commission in March. Mr. Madison proceeded to go over the project plans, work overview, minimization of wetland impacts, best management practices and a summary of the overall process.

[1:07:34] Mr. Sheppard asked what the seed mix would be for the areas to be reseeded. Mr. Madison responded that in upland areas, it tends to be a generic grass seed mix. They usually do not need to seed wetland areas because the matting for vehicles tends to be over vegetation that pops back up pretty easily after the mat removal. If seeding is necessary for the wetland areas, they will use a specific wetland seed mix from a company in western Massachusetts.

[1:08:50] Ms. Blasko asked if they had noticed any bird nests considered for protection as part of this project. Mr. Madison noted that they were working with the NH Fish & Wildlife Service to determine results of their migratory bird analysis as part of their application to NHDES. Due to the nature of the project timeline, they believe that the project period will not coincide with migratory bird species. Additionally, it will largely take place in marshy environments with

phragmites and they have yet to see anything during their fieldwork.

[1:10:17] Vice Chair McMillan asked if they would be doing their work throughout the whole growing season. Mr. Madison responded that it would all ideally be done before next winter, from October through the winter of 2025. The ideal timeline would be six to eight months. Vice Chair McMillan noted that if vegetation is to be covered during the off-season, then it will likely not be as affected as it would be during the growth season. They likely would be dealing with a lot of invasives. Mr. Madison agreed and noted that there are a lot of invasives in the work area and have a plan in the application to address those in order to reduce spreading.

[1:13:18] Ms. Vaccaro asked about the rare plants that were found, if any, on site. Mr. Madison responded that in the work area within the right-of-way, they did not find any. They still need to survey for American Reed and Great Burr Reed.

[1:14:47] Vice Chair McMillan asked what the permanent vs. temporary wetland impacts were, and whether there would be any permanent impacts. Mr. Madison noted that those numbers needed to be revised to reduce the temporary impact number and to add in a proposed gravel road in the wetland buffer as a permanent impact.

[1:15:53] Mr. Nelson chimed in to add that the temporary impact areas would revegetate naturally with native vegetation.

[1:16:35] Ms. Blasko made a motion to recommend approval of the permit to the Planning Board with the following condition:

1. The applicant shall update the wetland and wetland buffer impact calculations to reflect the new findings.

Vice Chair McMillan seconded the motion. The motion passed unanimously (7-0).

2. 50 Odiorne Point Road
Rosemary L. Gardner Revocable Trust, Owner
John E. Gardner Trustee, Co-Owner
Assessor Map 224, Lot 10-3

[1:17:53] Vice Chair McMillan recused herself from this application.

[1:18:22] Chair Collins announced that Brian Gibb would be the alternate member voting on this application.

[1:18:40] Elizabeth Olliver, of Normandeau Associates, came to present this application on behalf of the property owner. Ms. Olliver described the sequence of events leading to the application, including a wetland violation notice, a visit by City staff to the property, the hiring of Normandeau for wetland delineation and the creation of a restoration plan. She described the property, the current permanent impacts and the multiple wetlands on the site. She provided photos from site visits and from the property owner that show the impacts from flooding during the recent storm events. Lastly, Ms. Olliver went through the details of their restoration plan

including the proposed plants, their locations, how they will be planted, and how they will be monitored and maintained.

[1:43:57] Mr. Sheppard thanked Ms. Olliver for her comprehensive presentation. He then asked where, if any, on the plans were the proposed lawn areas. Ms. Olliver pointed out the area of existing lawn where a portion of it would remain lawn and be maintained and mowed. The wetland placards would be placed along the edge to indicate 'no-mow' zones.

[1:46:51] Chair Collins asked if there was a plan developed to be given out to the current and future landscapers of the property. Ms. Olliver responded that aside from placing the signage on site to delineate no-mow areas, they had not developed any materials for a landscaper. Perhaps the property owner could present the restoration plan to any landscaper and communicate the no-cut areas. Chair Collins asked what would shorten the proposed annual monitoring plans for up to five years, if anything. Ms. Olliver responded that the timeframe of required monitoring would be a decision that is reached by both NHDES and the City. For example, if they get to year three in a monitoring plan and the site is stabilized and plantings are thriving, it would not be unusual for the required monitoring period to be shortened. This is why they put in the language 'up to five years'. A discussion continued about the need for requiring a certain timeline of monitoring and how future property owners may be impacted by this is the property changes hand before the period ends.

[1:52:05] Ms. Vaccaro asked if there was anything being done upstream of this site to try and reduce the flow of stormwater. Ms. Olliver responded that there are four storm drains in the vicinity of the house that connect and come out of a headwall on an abutter's property and the flow from that headwall makes its way onto this property. Mr. Gardner, the property owner, noted that by the time the water reaches his property, it is high velocity and high volume, and it is a channeled flow, creating erosion on his property. This was the reason for the installation of the stone swale. A discussion continued about the erosion issues and the manmade problem of the stormwater outlet.

[1:58:00] Ms. Vaccaro expressed concern that the proposed restoration plan might make the predicted stormwater flow rate faster with the removal of the swale and installation of plantings. Ms. Olliver noted that the flow is already directly entering the salt marsh and is currently going over the stone swale and liner which does not allow for easy infiltration. Dave Price, from NHDES, noted this and recommended shrubs to help with this. The hope is that with the excessive amount of plantings and shrubs proposed, the plants will absorb a lot of the stormwater flow and slow it down due to friction before it can reach the salt marsh. Ms. Vaccaro mentioned that at the site walk for this project, the applicant had mentioned the possibility of adding 'break points' for the water to hit as it flows through the proposed vegetation. Ms. Olliver noted that this would be a proposed amendment to the plans that she is going to add in. To ensure establishment of the plants, she would like to install coir logs at different intervals down the swale in order to break up the speed of the stormwater flow. This would slow the water and protect the live stake plants during their establishment process.

[2:01:45] Chair Collins asked the Commission if they would like to extend the meeting time past 6:00 p.m. so that they could finish all of the business. The Commission voted unanimously (7-0)

with Vice Chair McMillan abstaining and Mr. Gibb voting in her place.

[2:02:03] Mr. Sheppard suggested to the applicant to consider lawn care and avoiding the use of pesticides and other chemicals to avoid the spread of chemicals from the stormwater flow. Ms. Olliver agreed that they could discuss that with the property owner.

[2:02:53] Ms. Blasko made a motion to recommend approval of the application to the Planning Board with the following conditions:

1. The restoration plan shall be amended to include the addition of coir logs to protect the live staking in the plant establishment phase.
2. The property owner considers abiding by NOFA standards for all landscaping activities.
3. A simplified map will be created for use by future landscapers and property owners that clearly defines what areas can and cannot be mowed, along with what areas should not be maintained and/or manicured.

[2:05:47] Mr. Gibb seconded the motion. The motion passed unanimously (6-0) with Ms. Vaccaro not voting.

[2:07:26] Mr. Sheppard made a motion to postpone the application for 224 Broad Street to the March meeting.

IV. STATE WETLAND BUREAU APPLICATIONS (NEW BUSINESS)

1. Dredge and Fill- Minor Impact
333 Borthwick Avenue
HCA Health Services of New Hampshire, Owner
Assessor Map 240, Lot 2-1

V. WORK SESSIONS

1. 50 Clough Drive
City of Portsmouth, Owner
Assessor Map 206, Lot 20

VI. OTHER BUSINESS

1. Welcome Talia Sperduto!
2. Peirce Island Kayak Launch

[2:07:45] Ms. Homet briefly explained that there was a state wetland violation out on Peirce Island near the boat launch on City property. A resident volunteer had gone out and installed stairs into the embankment near where kayaks are stored for the use of kayak owners to launch their kayaks. This was done without permission of the City and the State and resulted in ground disturbance and excavation of the bank which is in direct violation of wetland regulations. The

City has spoken with NHDES and were given the option for a restoration plan and removal of the stairs, or come for an after the fact permit if they felt that keeping the stairs was important. The City has opted to remove the stairs and create a restoration plan which is in the works.

[2:09:25] Ms. Blasko mentioned that a date had been finalized for the upcoming Sustainability Fair. The Fair will take place on Sunday April 14th from 12- 3:00 p.m. in the Connie Bean. They are expanding the invite to businesses this year and there will be a deadline to request a table by March 1st, 2024. Max Wiater, the City Arborist, will also be giving away free trees on that day in conjunction with the Fair.

[2:11:00] Chair Collins brought up that since they were talking about April already, maybe they should start thinking about an Earth Day activity for the Commission.

[2:11:21] Ms. Blasko asked if they are allowed to vote on applications if nobody is there to present or speak to it. Mr. Britz noted that they had voted on applications in the past that were State wetland permits that nobody showed up to present. He was unsure if they ever had voted on a City WCUP without a representative attending the meeting.

VII. ADJOURNMENT

[2:12:40] The meeting adjourned at 6:17 p.m.

Memo



TO: Conservation Commission Members
FROM: Kate Homet, Associate Environmental Planner
CC: Peter Britz, Planning & Sustainability Director
DATE: March 8, 2024
SUBJ: March 13, 2024 Conservation Commission Meeting

**110 Aldrich Road
Edward R. Reynolds, Owner
Assessor Map 153, Lot 3**

This application is requesting a Wetland Conditional Use Permit for the construction of a 768 s.f. detached, two car garage with an accessory dwelling unit on the second floor. Approximately 522 s.f. will be impacting the 100 ft wetland buffer as a permanent impervious impact, with the edge of the proposed garage located approximately 76 ft from the wetland resource. To mitigate the impacts to the wetland buffer, the applicant is proposing to remove 144 s.f. of impervious asphalt from the buffer, and an additional 590 s.f. of asphalt from outside the buffer, to be converted to pervious pavers for the driveway. The applicant is also proposing the addition of plastic reinforced grass area to lead from the proposed garage bays to the existing driveway area.

1. The land is reasonably suited to the use activity or alteration.

The majority of the proposed construction will take place within the 100' buffer, mostly within the last 25' of the wetland buffer. This will introduce impervious surface to the buffer which will have impacts on stormwater runoff. Applicant should address plans for roof drainage off the garage and how it will be treated and infiltrated into the ground before making its way into the wetland.

2. There is no alternative location outside the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.

This property is in Zone SRB, which requires at least a 30' front setback for structures. The applicant could move the garage further outside the buffer and closer to the street, as it currently is proposed for 42' from the front lot line.

3. There will be no adverse impact on the wetland functional values of the site or surrounding properties.

While the applicant is proposing to introduce approximately 768 s.f. of new impervious within the buffer, they are planning to offset that with the removal of the 734 s.f. impervious driveway, of which 144 s.f. are within the buffer. To improve the quality of the buffer and adjacent wetland, the applicant should also incorporate plantings in the 25' vegetative buffer and consider a stone drip edge along the garage to control stormwater infiltration.

4. Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals.

The existing site appears to consist of lawn. The loss of lawn should be mitigated with the installation of plantings to further enhance the wetland buffer and encourage infiltration of stormwater into the ground.

5. The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this section.

While this proposal aims to mitigate impervious impacts with the installation of pervious pavers, the applicant needs to demonstrate the design of impervious pavers and commitment to maintain pavers to ensure their permeability over time. Additionally, the applicant could move this garage further away from the resource and should demonstrate feasibility for this, if applicable.

6. Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.

While the vegetated buffer strip (first 25' of the wetland buffer) is not being directly impacted by construction in this proposal, the applicant should consider additional plantings in this area to further protect and enhance the quality of the wetland resource.

Recommendation: Staff recommends postponement of this application with the recommendation that the following items are addressed:

1. In accordance with Section 10.1018.40 of the Zoning Ordinance, applicant shall install permanent wetland boundary markers. We suggest that these markers are placed along the 25' vegetative buffer at intervals of every 50 feet. These must be installed prior to the start of any construction. These can be purchased through the City of Portsmouth Planning and Sustainability Department.
2. Please include layout in the plans and more information about proposed drainage of stormwater from the new structure. Ideally, runoff should be slowed for proper filtration through vegetation before reaching the wetland resource. Additionally, a stone drip edge could be applied here for infiltration purposes.
3. Please consider moving this structure further away from the wetland and closer to the front of the property. If not feasible, please explain why.
4. Please include a cross-section detail of the pervious pavers for the driveway. This should include at least 6-8" of permeable substrate beneath the pavers for drainage.
5. Please include a maintenance plan for the permeable pavers (for example, regular sweeping, repairs after major storms, etc.).
6. Please consider the addition of native wetland buffer plantings on the property, especially within the 25' vegetated 'no-cut' buffer.
7. Applicant shall remove all debris/trash from the wetland and 25' vegetative buffer, including the wood decking/pallet structure.
8. Applicant must show all proposed driveway areas on site plan layout – including area with proposed plastic pervious pavers.
9. Applicant must include details of the plastic reinforced grass driveway layout, and how it will encourage permeability.

LITTLE HARBOUR SCHOOL PLAYGROUND























CONCEPT DESIGN

DRAFT V.1 | JAN. 2024



LITTLE HARBOUR SCHOOL PLAYGROUND OVERALL BASE MAP and EXISTING CONDITIONS

LEGEND

-  Property Line
-  Parcels
-  Existing Contours (1 FT)
-  Asphalt
-  Water Body
-  Marsh
-  Wetland
-  Wetlands Setback (25 FT)
-  Wetlands Setback (100 FT)
-  FEMA 100yr Flood
-  Existing Stormwater Feature
-  Existing Buildings
-  Existing Fence
-  Existing Site Features
-  Existing Deciduous Tree
-  Existing Coniferous Tree
-  Existing Forest
-  Limit of Work
-  20' Fire Truck Access Setback
-  Overhead Utilities
-  Existing Woodchip Play Areas
-  Existing Planted Areas

NOTES

Town, County:	Portsmouth, Rockingham
Physiographic Region:	Appalachian Highlands, New England Province
Watershed:	Piscataqua River
USDA Hardiness Zone:	6a
Climate:	Humid Continental (Dfb)
Change in Elevation (GIS):	14'
Acreage:	~ 33



0 150 300 450 FT



LITTLE HARBOUR SCHOOL PLAYGROUND CONCEPT IMAGERY



LITTLE HARBOUR SCHOOL PLAYGROUND CONCEPTUAL SKETCH


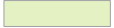



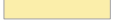
DRAFT V.1 JAN 2024

PLAN










- ① REMAINING ASPHALT - INCLUDES THE BASKETBALL COURTS, FOUR SQUARE, ADA ACCESSIBLE PATH, AND FIRE TRUCK ACCESS
- ② INTEGRATED STORMWATER FEATURES MITIGATE CURRENT DRAINAGE ISSUES AND INCREASE SENSORY EXPERIENCE
- ③ MOUNDS DEFINE BUFFER EDGE WHILE PROVIDING VISUAL VANTAGE POINTS AND UNIQUE SPACES
- ④ MAIN PLAY AREA FEATURES LANDSCAPE STRUCTURES PLAY EQUIPMENT INCLUDING THE TREE TOPS AND QUANTIS STRUCTURES, 12 SWINGS & 2 SPINNERS
- ⑤ NATURE PLAY AREA INCLUDES NATURAL EQUIPMENT FOCUSED TOWARD BALANCE AND EXPLORATION
- ⑥ SAND PLAY AREA ENCOURAGES KIDS TO INTERACT WITH THE EARTH AND GET THEIR HANDS DIRTY
- ⑦ PLAY FIELD PUSHES SLIGHTLY TO THE NORTH TO ALLOW FOR A MEADOW BUFFER THAT ENCOURAGES STORMWATER INFILTRATION
- ⑧ ADDITIONAL BIKE RACKS ELIMINATE BICYCLE CLUTTER AND CONSOLIDATE STORAGE INTO ONE AREA
- ⑨ NATIVE MEADOW BUFFER ENCOURAGES STORMWATER INFILTRATION
- ⑩ STUDENT MEMORIAL AT BASKETBALL COURT
- ⑪ ADDED LANDSCAPE BUFFER ALONG ROAD PROVIDES SEPARATION BETWEEN PLAY AND TRAFFIC

LEGEND

LANDSCAPE AREAS

-  Asphalt
-  Lawn
-  Stormwater Retention
-  Planted Areas & Mounds
-  Woodchips
-  Sand

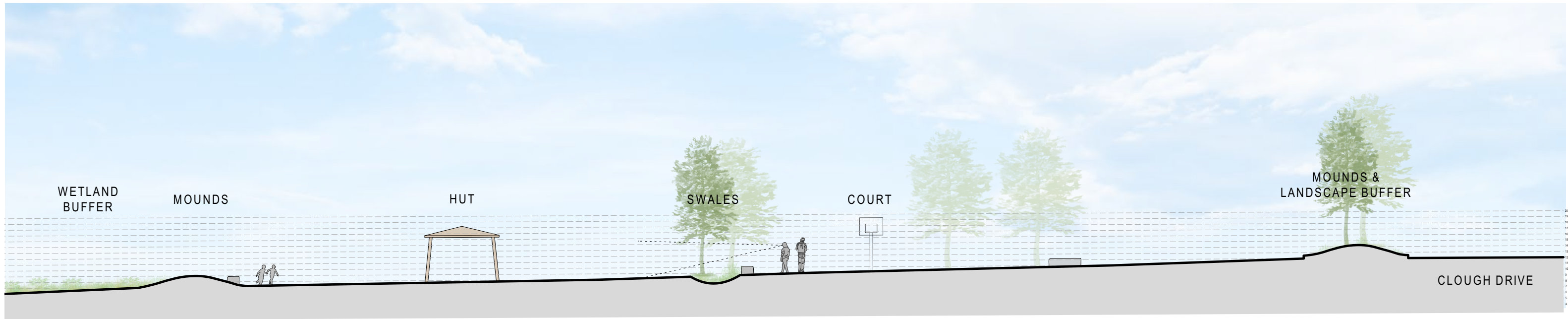
FEATURES

-  Footpath
-  Landscape Boulders
-  Granite Benches
-  Granite Wearstones & Steps
-  Stump Hop
-  Willow Tunnel
-  Trees
-  Drainage Swale
-  LSI Play Equipment

SCALE
1" = 50'-0"



LITTLE HARBOUR
SCHOOL PLAYGROUND
LANDSCAPE SECTION



1 SECTION
Scale: 1" = 20'-0"

LITTLE HARBOUR
SCHOOL PLAYGROUND
NEW PLAY EQUIPMENT



LSI TREE TOPS



LSI QUANTIS



LSI OODLE



LSI SWINGS



LSI CURVA

Edward R. (Ned) Raynolds
110 Aldrich Rd.
Portsmouth, NH 03801
Nedr64@gmail.com
603-365-1725

Feb. 21, 2024

Ms. Samantha Collins
Chair, Conservation Commission
City of Portsmouth
1 Junkins Ave.
Portsmouth NH 03801

Dear Chairperson Collins & Conservation Commission members,

I'm a 23 year resident of Portsmouth. My three children (two college graduates and high school senior) and I live in an 1,850 s.f., four bedroom home on Aldrich Rd. Having watched with mixed feelings as, over those 23 years, the rapid escalation of my property value and equity in my home has put an affordable mortgage or apartment for my adult children increasingly out of their reach, I now seek to contribute to the supply of workforce housing in the city while increasing the utility and value of our home by constructing a detached 2 car garage with an ADU over top.

At 0.4 acres (17,424 s.f.) with 100' of street frontage, I have plenty of lot area and street frontage, and more than sufficient setbacks, for the project to comply with all such requirements for ADUs. However, there exists an approximately 20,900 s.f. area of inland wetland behind my house and parcel (80% of which is located on the lot of neighboring 32 Boss Ave). This wetland has no natural source but rather appears to have been formed (or substantially enlarged) in the latter 20th century by the construction of homes on the surrounding streets that now make up the block formed by Aldrich Rd, Boss Ave, Lawrence St. and Middle St. (34 Boss Ave, built in 1953; 32 Boss Ave, built in 1960; 36 Boss Ave, built in 1968; expansion of the 1890-built single family colonial at 774 Middle St. into 4 condo homes in 1986-88; and rearward expansion of a 1900 single family New Englander at 796 Middle St. into a four-condo building in 2003-04).

Of that 20,900 s.f. of actual wetland, less than 10% (~1,750 s.f.) of it is on my lot (the very rear portion). The area within the 100' wetland buffer on my lot – essentially, my back yard (but including the rear ~35% of my house) – is approximately 10,100 s.f.. (i.e. 68% of my lot is either wetland or wetland buffer). Total additional wetland buffer area to be disturbed on the lot by placement of the Garage-ADU would be 552 s.f., or 5.5%. The distance from my proposed structure to the edge of the actual wetland would be 76 ft.

Thus the jurisdictional area impacted by my project would be in the outer 24' of the 100' buffer. None of the actual wetland would be disturbed. Countering that, I plan to convert 144 s.f. of existing impervious driveway in the wetland buffer, and 590 s.f. of existing impervious driveway surface outside the buffer, to pervious pavers upon completion of construction. I will also continue to remove invasive species in the rear 15% of the buffer area (closest to the wetland) and replace with native species.

I look forward to the opportunity to present and discuss this project with you at a meeting soon.

Ned Raynolds

Areas of wetland and wetland buffer re: 110 Aldrich Rd.



Property Information

Property ID 0153-0003-0000
Location 110 ALDRICH RD
Owner RAYNOLDS EDWARD R



**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 08/24/2023
Data updated 3/9/2022

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

Map Theme Legends

Wetlands

-  Wetlands
-  100ft Wetlands Buffer

City of Portsmouth

My lot - 110 Aldrich Rd - with dimensional markup



Property Information

Property ID 0153-0003-0000
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Map Theme Legends

Wetlands

-  Wetlands
-  100ft Wetlands Buffer

City of Portsmouth

My lot - 110 Aldrich Rd - with dimensional markup



I plan to replace current driveway and make new driveway ALL out of spaced pavers - so as to be pervious surfaces

This garage was demo'd by previous owners - 15 did not exist when I bought house in 2013!

approx. area of add'l driveway

proposed garage + ADU

SCHEMATIC DESIGN

Ned Reynolds



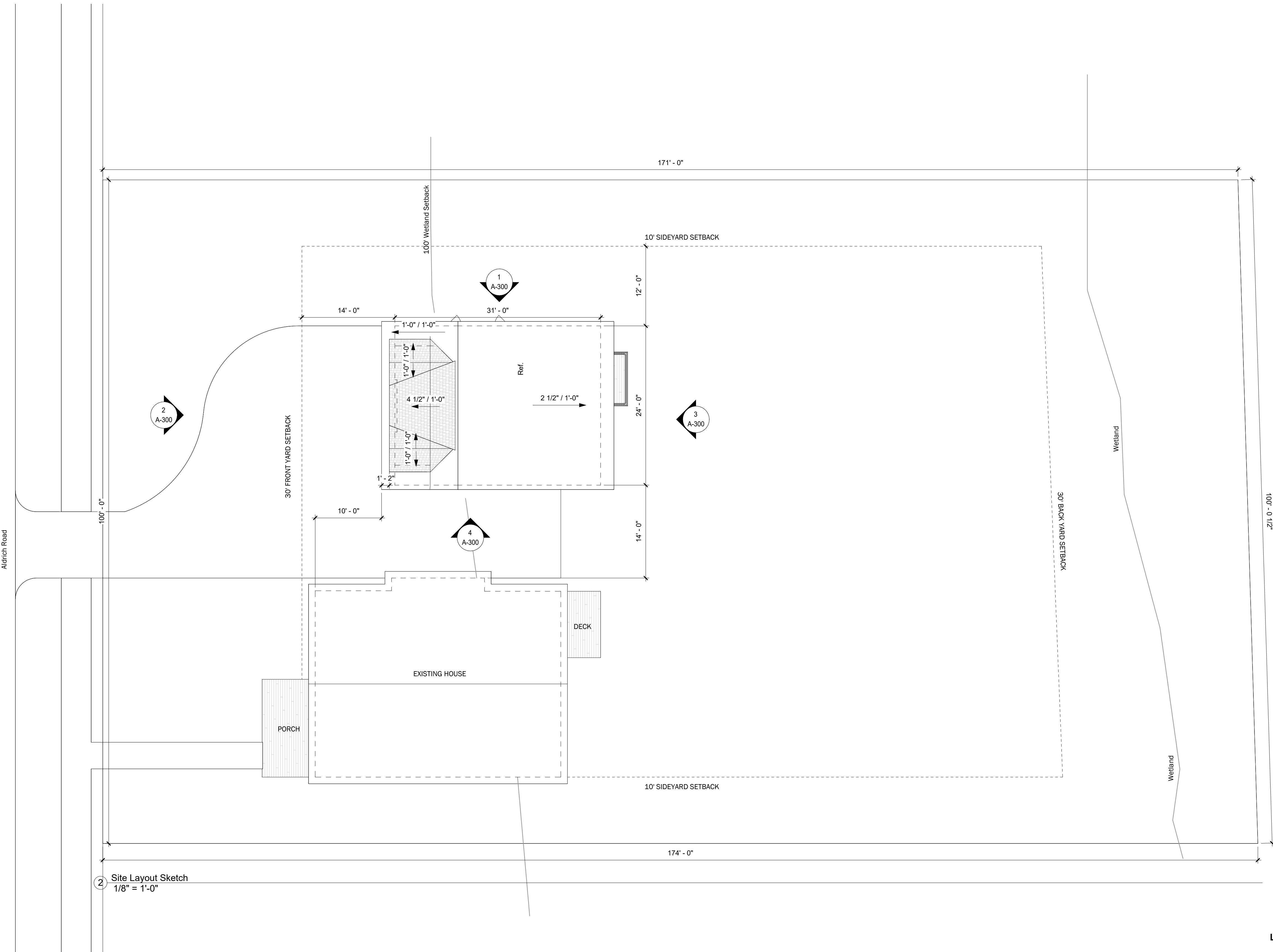
7 WALLINGFORD SQ
UNIT 2099
KITTERY, MAINE 03904
207.994.3104

Drawn By: PG
Drawing Checked By: BMH
Drawing Scale: As indicated
Drawing Date: 02/02/24
Project Number: 23123

drawing revisions:
No. Description Date

Site Layout

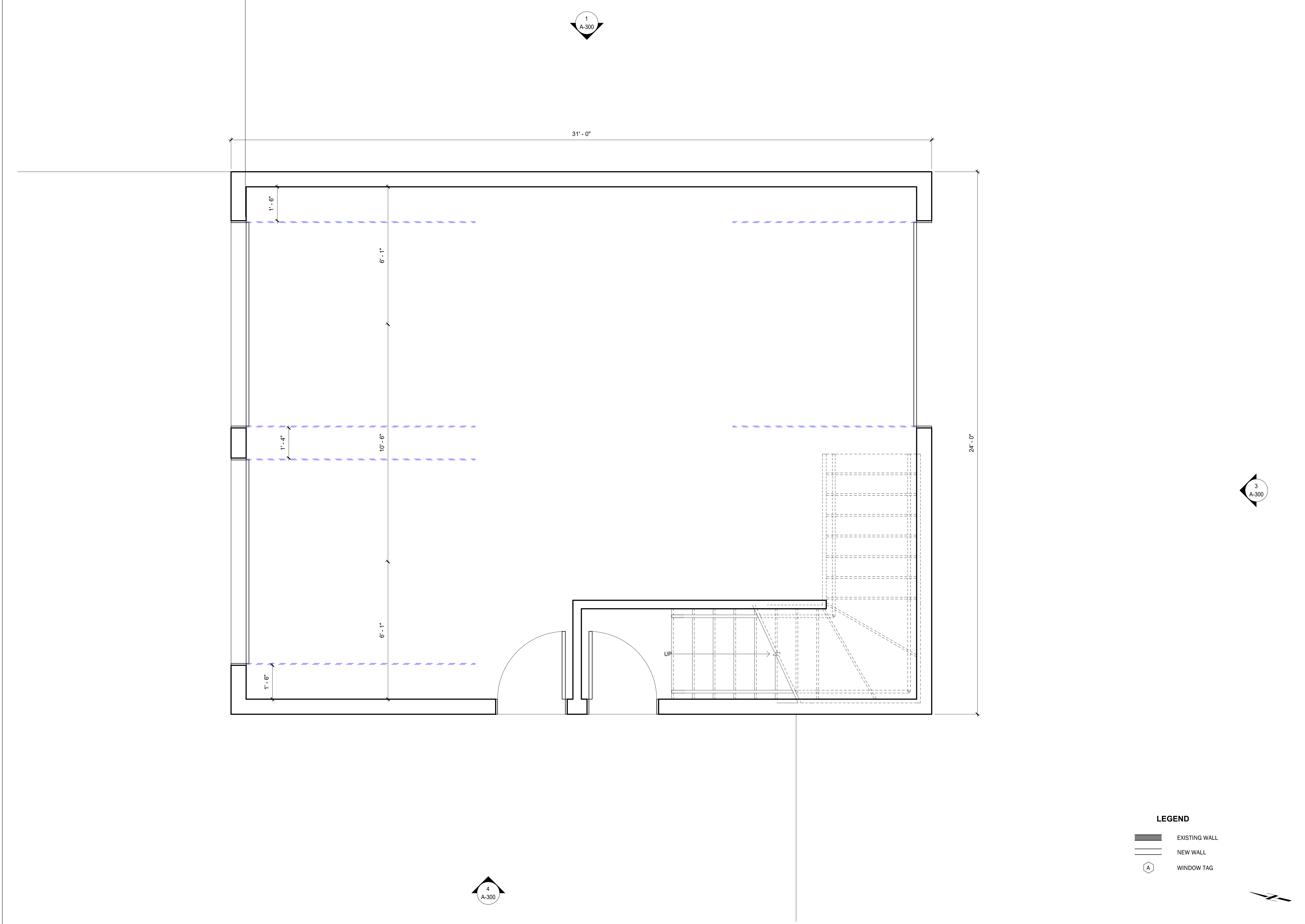
A-100



2 Site Layout Sketch
1/8" = 1'-0"

LEGEND
EXISTING WALL
NEW WALL
WINDOW TAG





110 Aldrich Rd
 Portsmouth, NH

SCHEMATIC
 DESIGN

Ned Reynolds

**WINTER
 HOLBEN**
 architecture + design

7 WALLINGFORD SQ
 UNIT 2099
 KITTERY, MAINE 03904
 207.994.3104

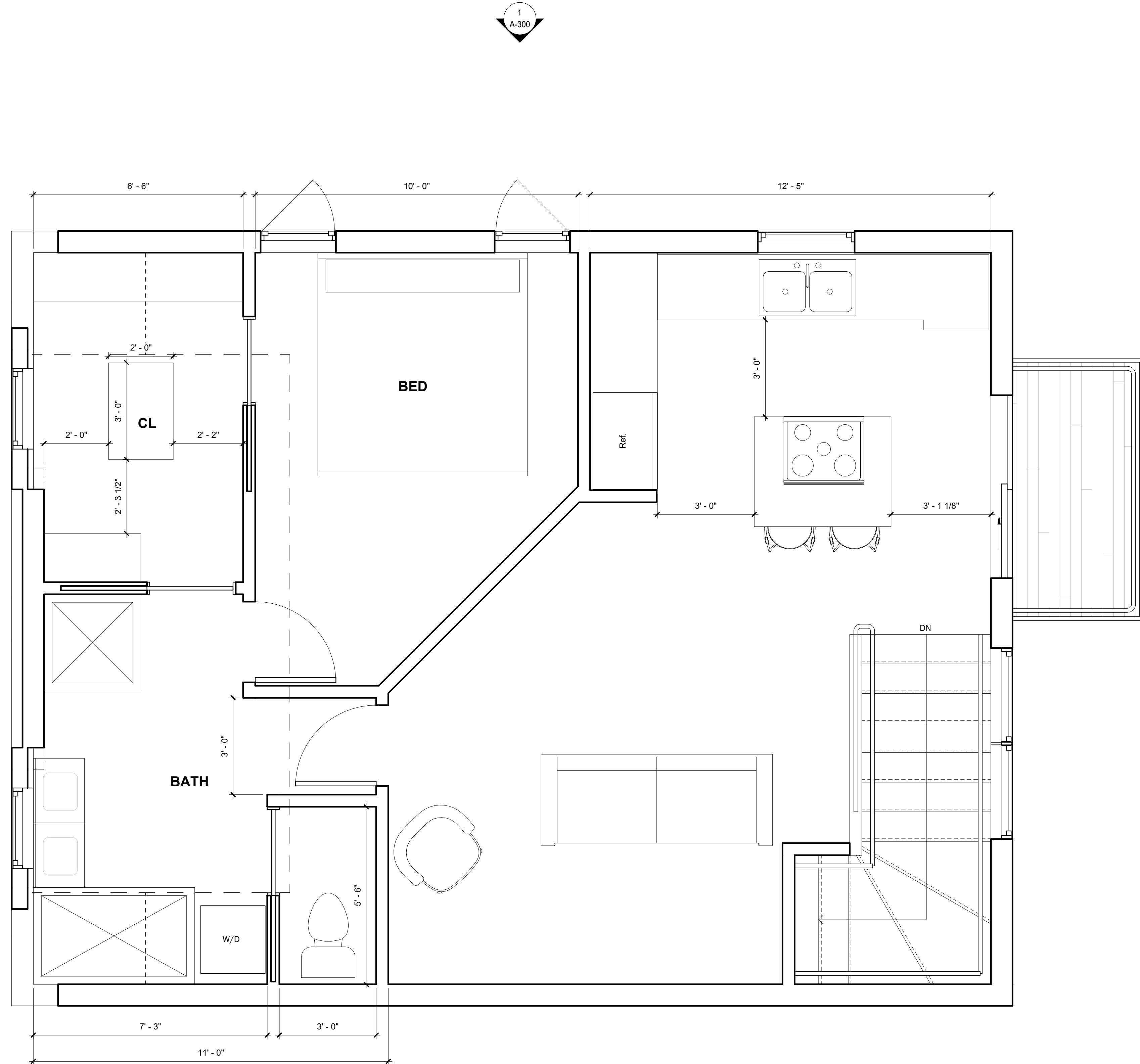
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 Drawing Checked By: BMH
 Drawing Scale: As indicated
 Drawing Date: 02/02/24
 Project Number: 23123

drawing revisions:
 No. Description Date

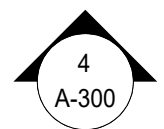
1st Floor

A-111

LEGEND
 ——— EXISTING WALL
 - - - NEW WALL
 ◻ WINDOW TAG

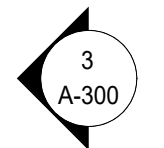


① 02 - 2nd Floor - Option 1A
1/2" = 1'-0"



LEGEND

	EXISTING WALL
	NEW WALL
	WINDOW TAG



110 Aldrich Rd
Portsmouth, NH

SCHEMATIC DESIGN

Ned Reynolds

WINTER HOLBEN
architecture + design

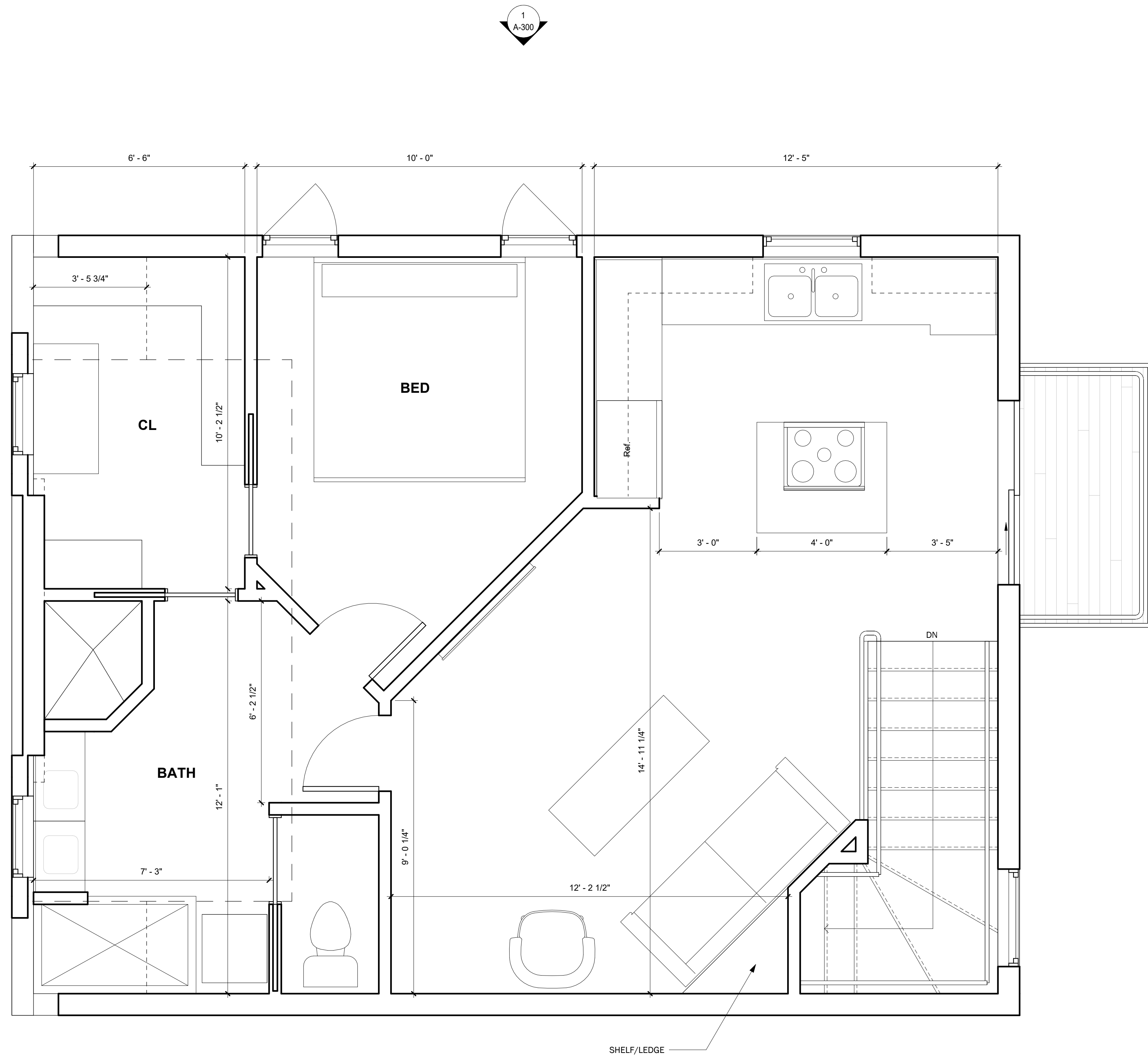
7 WALLINGFORD SQ
UNIT 2099
KITTERY, MAINE 03904
207.994.3104

Drawn By: PG
Drawing Checked By: RW
Drawing Scale: As indicated
Drawing Date: 02/02/24
Project Number: 23123

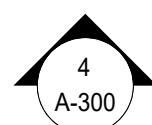
drawing revisions:
No. Description Date

2nd Floor -
Option 1A

A-112

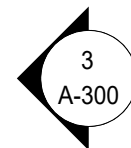


① 02 - 2nd Floor - Option 1B
1/2" = 1'-0"



LEGEND

	EXISTING WALL
	NEW WALL
	WINDOW TAG



110 Aldrich Rd

Portsmouth, NH

SCHEMATIC DESIGN

Ned Reynolds

WINTER HOLBEN
architecture + design

7 WALLINGFORD SQ
UNIT 2099
KITTERY, MAINE 03904
207.994.3104

Drawn By:	PG
Drawing Checked By:	RW
Drawing Scale:	As indicated
Drawing Date:	02/02/24
Project Number:	23123

drawing revisions:		
No.	Description	Date

2nd Floor - Option 1B

A-112B

SCHEMATIC DESIGN

Ned Reynolds

WINTER HOLBEN
architecture + design

7 WALLINGFORD SQ
UNIT 2099
KITTERY, MAINE 03904
207.994.3104

Drawn By: JH
Drawing Checked By: BMH
Drawing Scale: 1/8" = 1'-0"
Drawing Date: 02/02/24
Project Number: 23123

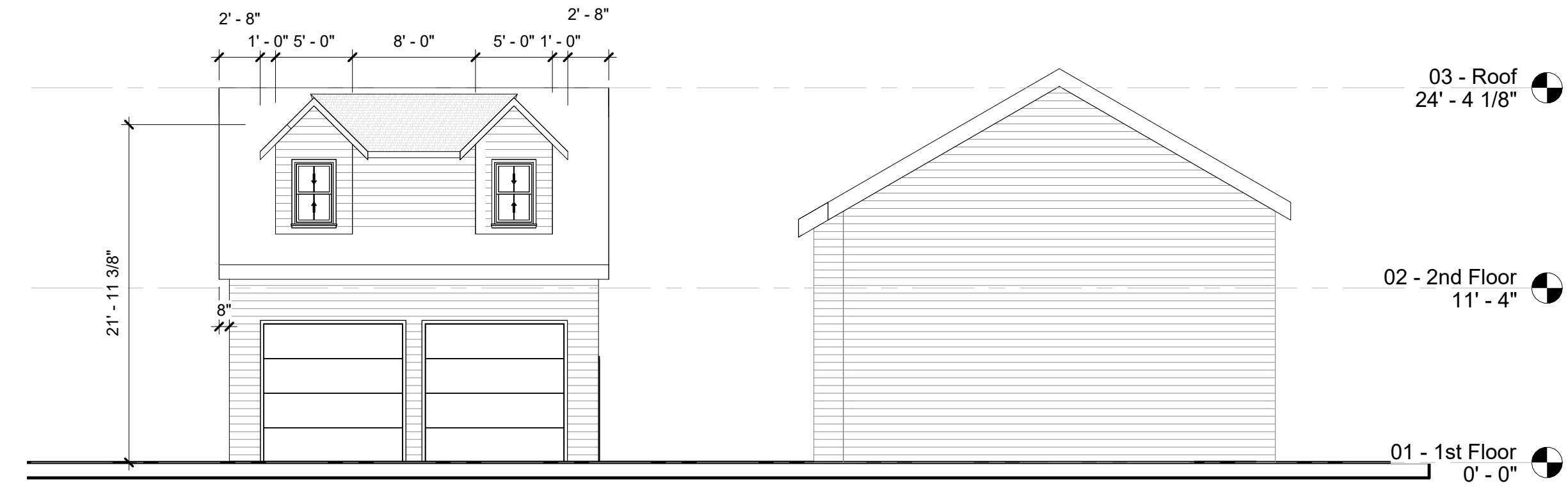
drawing revisions:
No. Description Date

Elevations

A-300



1 East Elevation
1/8" = 1'-0"



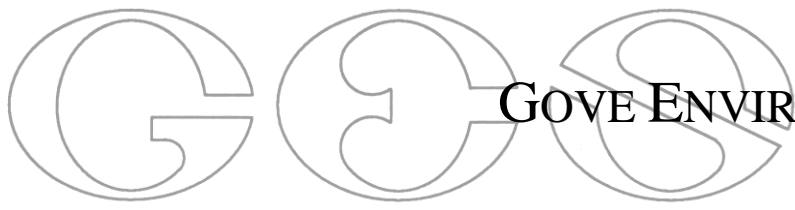
2 North Elevation
1/8" = 1'-0"



3 South Elevation
1/8" = 1'-0"



4 West Elevation
1/8" = 1'-0"



GOVE ENVIRONMENTAL SERVICES, INC.
AGENT

NHDES WETLANDS BUREAU
MINOR IMPACT
DREDGE & FILL APPLICATION

Commercial Addition
Portsmouth Regional Hospital
Portsmouth, NH
January, 2023

Prepared By:

Gove Environmental Services, Inc.
8 Continental Dr Bldg 2, Unit H, Exeter, NH 03833-7526
Ph (603) 778 0644 / *Fax* (603) 778 0654
info@gesinc.biz / www.gesinc.biz

GES# 2019175

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 - 1.3 Attachment A: Minor and Major Projects (NHDES-W-06-013)
 - 1.4 Wetlands Rule Waiver (NHDES-W-06-083)
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APPENDICES

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- Appendix II New Hampshire Department of Historic Resources Inquiry
- Appendix III Tax Map, List of Abutters, Abutter Notification Letter, and Certified Mail Receipts
- Appendix IV New Hampshire Fish and Game Coordination Package



STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division / Land Resources Management
[Check the Status of your Application](#)



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

APPLICANT'S NAME:

TOWN NAME:

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 type="checkbox"/> Yes <input type="checkbox"/> No
Does the property contain a PRA? If yes, provide the following information: <ul style="list-style-type: none"> • Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHFG) 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. • Protected species or habitat? <ul style="list-style-type: none"> ○ If yes, species or habitat name(s): ○ NHB Project ID #: • Bog? • Floodplain wetland contiguous to a tier 3 or higher watercourse? • Designated prime wetland or duly-established 100-foot buffer? • Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone? 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
Is the property within a Designated River corridor? If yes, provide the following information: <ul style="list-style-type: none"> • Name of Local River Management Advisory Committee (LAC): • A copy of the application was sent to the LAC on Month: Day: Year: 	<input type="checkbox"/> Yes <input type="checkbox"/> No

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	--

Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	--

For stream crossing projects, provide watershed size (see [WPPT](#) or Stream Stats):

SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))
 Provide a description of the project and the purpose of the project, the need for the proposed impacts to jurisdictional areas, an outline-of the scope of work to be performed, and whether impacts are temporary or permanent.

SECTION 3 - PROJECT LOCATION
 Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.

ADDRESS:

TOWN/CITY:

TAX MAP/BLOCK/LOT/UNIT:

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

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

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:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))		
<input type="checkbox"/> N/A		
LAST NAME, FIRST NAME, M.I.:		
COMPANY NAME:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 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:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		

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

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

des.nh.gov

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):

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

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

JURISDICTIONAL AREA		PERM. SF	PERM. LF	PERM. ATF	TEMP. SF	TEMP. LF	TEMP. 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	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			<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			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Tidal Water			<input type="checkbox"/>			<input type="checkbox"/>
TOTAL							

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

<input type="checkbox"/> MINIMUM IMPACT FEE: Flat fee of \$400.		
<input type="checkbox"/> 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).		
<input type="checkbox"/> MINOR OR MAJOR IMPACT FEE: Calculate using the table below:		
Permanent and temporary (non-docking):	SF	× \$0.40 = \$
Seasonal docking structure:	SF	× \$2.00 = \$
Permanent docking structure:	SF	× \$4.00 = \$
Projects proposing shoreline structures (including docks) add \$400 = \$		
Total = \$		
<i>The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$</i>		

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

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

des.nh.gov

SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05)		
Indicate the project classification.		
<input type="checkbox"/> Minimum Impact Project	<input type="checkbox"/> Minor Project	<input type="checkbox"/> Major Project
SECTION 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)		
Initial each box below to certify:		
Initials:	To the best of the signer's knowledge and belief, all required notifications have been provided.	
Initials:	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:	<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"> 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. 	
Initials:	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):	PRINT NAME LEGIBLY:	DATE:
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:	

DIRECTIONS FOR TOWN/CITY CLERK:

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

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

DIRECTIONS FOR APPLICANT:

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

Keep this checklist for your reference; do not submit with your application.

APPLICATION CHECKLIST

Unless specified, all items below are required. Failure to provide the required items will delay a decision on your project and may result in denial of your application. Please reference statute RSA 482-A, Fill and Dredge in Wetlands, and the [Wetland Rules Env-Wt 100-900](#).

- 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)). Make check or money order payable to "Treasurer – State of NH".
- The Required Planning actions required by Env-Wt 311.01(a)-(c) and Env-Wt 311.03(b)(3).
- [US Army Corps of Engineers \(ACE\) "Appendix B, New Hampshire General Permits \(GPs\), Required Information and Corps Secondary Impacts Checklist"](#) and its required attachments (Env-Wt 307.02). This includes the [US Fish and Wildlife Service IPAC review](#) and [Section 106 Historic/Archaeological Resource review](#).
- 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 of the 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 - [Permittee Responsible Mitigation Project 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)).
- 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.
 - b. All existing shoreline structures.
 - (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 US Geological Survey map or updated data based on LiDAR at a scale of one inch equals 2,000 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 projects in the protected tidal zone, 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 documentation of any consultation requests made to NHFG, communications and information related to the consultation, with the consultation results and recommendations from NHFG. (Env-Wt 311.06(g)). See [Wetlands Permitting: Protected Species and Habitat Fact Sheet](#).
- 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)).
- [Avoidance and Minimization Written Narrative](#) or the [Avoidance and Minimization Checklist](#), or your own avoidance and minimization narrative (Env-Wt 311.07).
- For after-the-fact applications: information required by Env-Wt 311.12.
- [Coastal Resource Worksheet](#) for coastal projects as required under Env-Wt 600.
- Prime Wetlands information required under Env-Wt 700. See [WPPT](#) for prime wetland mapping.
- For non-tidal shoreline structure projects, the length of shoreline frontage per Env-Wt 311.09(b)(1)

Required Attachments for Minor and Major Projects

- [Attachment A: Minor and Major Projects](#) (Env-Wt 313.03).
- [Functional Assessment Worksheet](#) or others means of documenting the results of actions required by Env-Wt 311.10 as part of an application preparation for a standard permit (Env-Wt 311.03(b)(3); Env-Wt 311.03(b)(10)). See [Functional Assessments for Wetlands and Other Aquatic Resources Fact Sheet](#). For shoreline structures, see shoreline structures exemption in Env-Wt 311.03(b)(10)).

Optional Materials

- [Stream Crossing Worksheet](#) which summarizes the requirements for stream crossings under Env-Wt 900.
- Request for [concurrent processing of related shoreland / wetlands permit applications](#) (Env-Wt 313.05).



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: HCA Health Services of New Hampshire **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.*

This after the fact impact to a man made detention basin resulted in under an acre of permanent wetland impact. There were temporary impacts to a duly established prime wetland buffer that encroaches on the property across Borthwick Ave however those impacts will not result in any observable effect to the functions and values of that buffer. Additionally the functions and values of the detention basin will be preserved and maintained as a man made stormwater feature.

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 after the fact impacts related to the construction of the oncology wing were minimized to the greatest extent practicable. The existing infrastructure and architecture did narrow the location of the expansion. The size of the expansion was necessary to meet the project objectives and house the necessary rooms, staff and equipment for the wing.

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 limited the impacts to the detention basin to only what was needed to meet the project objectives. This impact will have no long term effects to the functions and values of the man-made detention basin as the basin was increased in size to account for the additional stormwater as well as the loss to a small portion of the wetland.



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: HCA Health Services OF New Hampshire **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 AFTER THE FACT WETLAND IMPACTS RELATED TO THE CONSTRUCTION OF THE ONCOLOGY WING OF THE PORTSMOUTH REGIONAL HOSPITAL WERE THE LEAST IMPACTING ALTERNATIVE AS THE EXISTING ARCHITECTURE OF THE BUILDING WOULD ONLY ALLOW FOR EXPANSION AT THIS PORTION OF THE BUILDING SUITABLE FOR THE PROJECT OBJECTIVES. THE PERMANENT IMPACTS TO THE MAN MADE DETENTION BASIN WERE LIMITED TO THE EXTERIOR OF THE WETLAND WITH TEMPORARY IMPACTS BEING RESTORED PER THE LANDSCAPING PLAN. ADDITIONALLY THE DETENTION BASIN WAS INCREASED IN SIZE TO SUPPORT THE ADDITIONAL STORMWATER AS WELL AS REPLICATED THE LIMITED PERMANENT LOSS DUE TO THE PROJECT CONSTRUCTION.

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 did not have any direct impacts to marshes that support or provide nutrients for finfish, crustaceans, shellfish and wildlife of significant value.

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 impacts were to the exterior of a man-made detention basin, that was increased in size to accommodate the additional stormwater contribution from the expansion. This increase in size will maintain existing hydrology in this area.

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 constructed expansion had direct and temporary wetland impacts to a man made detention basin. This area as it is a man made stormwater feature does not meet the criteria for an exemplary natural community. Additionally this isolated area is surrounded by development as well as roadways and would not be considered suitable habitat for protected species or reproductive habitat for those species.

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 constructed expansion was conducted entirely on private property and had no negative impacts that would eliminate depreciate or obstruct public commerce, navigation or recreation with the completion of the project.

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.

No floodplain wetlands were impacted with the construction activities

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.

Impacts were directed to a man made detention basin.

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 proposed project has impacts to a man made storm water feature and will not result in any observable impacts to water quality.

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.

There are no proposed impacts to stream channels with this project.

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.

No shoreline structures proposed

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.

No shoreline structures proposed

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.

No shoreline structures proposed

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.

No shoreline structures proposed

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.

No shoreline structures proposed

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.

No shoreline structures proposed

PART II: FUNCTIONAL ASSESSMENT	
REQUIREMENTS	Ensure that project meets the requirements of Env-Wt 311.10 regarding functional assessment (Env-Wt 311.04(j); Env-Wt 311.10).
FUNCTIONAL ASSESSMENT METHOD USED: Army Corps of Engineers Highway Methodolog	
NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: BRENDEN WALDEN CWS #297	
DATE OF ASSESSMENT: 9/5/2023	
Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT: <input checked="" type="checkbox"/>	
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: <input checked="" type="checkbox"/>	
Note: The Wetlands Functional Assessment worksheet can be used to compile the information needed to meet functional assessment requirements.	



**WETLANDS RULE WAIVER OR
DWELLING OVER WATER WAIVER
REQUEST FORM**
WATER DIVISION/LAND RESOURCES MANAGEMENT
WETLANDS BUREAU



RSA/Rule: RSA 482-A/ Env-Wt 204

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).

SECTION 1 - PROJECT LOCATION INFORMATION (Env-Wt 204.03(c))			
ADDRESS: 333 Borthwick Ave	TOWN/CITY: Portsmouth	STATE: NH	ZIP CODE: 03802
TAX MAP/LOT NUMBER: Map 240 Lot 2-1			
SECTION 2 - WAIVER REQUESTOR INFORMATION (Env-Wt 204.03(a))			
LAST NAME, FIRST NAME, M.I.: Walden, Brenden, M.			
MAILING ADDRESS: 8 Continental Drive, Building 2 Unit H			
TOWN/CITY: Exeter		STATE: NH	ZIP CODE: 03833
EMAIL ADDRESS (if available): bwalden@gesinc.biz or if not FAX NUMBER: [REDACTED]		DAYTIME TELEPHONE NUMBER: 207-710-7863	
SECTION 3 - APPLICANT INFORMATION (Env-Wt 204.03(b))			
If request is being made on behalf of someone else, include the following information regarding the person being represented. If requestor is the applicant, check the following box and proceed to Section 4.			
<input type="checkbox"/> Requestor is the applicant.			
LAST NAME, FIRST NAME, M.I.: HCA Health Services of New Hampshire			
MAILING ADDRESS: Po Box 80610			
TOWN/CITY: Indianapolis		STATE: IN	ZIP CODE: 46580
EMAIL ADDRESS (if available): Trip.DeMoss@hcahealthcare.com or if not FAX NUMBER: [REDACTED]		DAYTIME PHONE NUMBER: [REDACTED]	

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

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

www.des.nh.gov

SECTION 4 - WAIVER INFORMATION
SECTION 4A - WAIVER TO RULE Env-Wt 100-900
<input type="checkbox"/> N/A - If you are not requesting a rule waiver, check this box and proceed to Section 4b
Provide the number of the specific section of each rule for which a waiver is sought (Env-Wt 204.03(d)): Env-Wt Env-Wt 306.05(a)(1) & 311.10
Provide a complete explanation of why a waiver is being requested, including an explanation of the operational and economic consequences of complying with the requirement and, if the requested waiver would extend the duration of a permit, the reason(s) why the permit holder was not able to complete the project within the specified time (Env-Wt 204.03(f)(1)): The applicant is seeking relief from the above cited rules regarding the delineation of all jurisdictional areas on the subject property along with the functional assessment of the areas beyond the field delineated areas on the subject property. This is an after the fact application with minimal impacts to a man-made detention basin required to accommodate the oncology wing addition. This location was required due to the existing architecture of the building on site.
If applicable, provide a complete explanation of the alternative that is proposed to be substituted for the requirement in Env-Wt, including written documentation or data, or both, to support the alternative (Env-Wt 204.03(g)): A field delineation of the areas in the relevant vicinity of the expansion was completed and the functions and values of those areas was evaluated.
SECTION 4B – DWELLING OVER WATERS WAIVER UNDER RSA 482-A:26, III(b).
<input checked="" type="checkbox"/> N/A - If you are not requesting a standard waiver, check this box and proceed to Section 5)
Identify the specific standard to which a waiver is being requested (Env-Wt 204.03(e)): RSA 482-A:
Provide a complete explanation of why a waiver is being requested, including a complete explanation of how the statutory criteria of RSA 482-A:26, III(b) will be met (Env-Wt 204.03(f)(2)):

SECTION 5 - ADDITIONAL WAIVER INFORMATION (Env-Wt 204.03(h); Env-Wt 204.03(i))
 (applicable to Waivers of Rules *and* Standards under RSA 482-A:26, III(b))

Indicate whether the waiver is needed for a limited duration and, if so, an estimate of when the waiver will no longer be needed (Env-Wt 204.03(h)):

This waiver is limited to this portion of the project any other projects that may require wetland impacts will either need to request an additional waiver or will need to meet the administrative rules.

Provide a complete explanation of why the applicant believes that having the waiver granted will meet the criteria in Env-Wt 204.05 or 204.06, as applicable (Env-Wt 204.03(i)):

The applicant meets all the criteria outlined in 204.05(a) as this after the fact direct wetland impact to an isolated man made detention basin does not have any significant adverse or avoidable impacts to wetlands, or public health or safety. Additionally, this granting of this waiver would benefit the public to be able to continue the use of the Oncology wing pending a CO.

SECTION 6 - REQUIRED CERTIFICATIONS (Env-Wt 204.04)

Initial each box and sign below to certify:

Initials: [Redacted]	The information provided is true, complete, and not misleading to the knowledge and belief of the signer.
Initials: [Redacted]	The signer understands that: <ul style="list-style-type: none"> • Any waiver granted based on false, incomplete, or misleading information shall be subject to revocation; and • He or she is subject to the penalties for falsification in official matters, currently established in RSA 641.

SECTION 7 - REQUESTOR SIGNATURE (Env-Wt 204.04)

SIGNATURE (APPLICANT): * [Redacted]	PRINT NAME LEGIBLY: [Redacted]	DATE: [Redacted]
SIGNATURE (REQUESTOR): [Redacted]	PRINT NAME LEGIBLY: [Redacted]	DATE: [Redacted]

*In lieu of an applicant signature, you may include a separate signed and dated authorization for the requestor to act on the person's behalf in connection with the request.



WETLANDS RULE WAIVER OR DWELLING OVER WATER WAIVER REQUEST FORM CRITERIA/DECISION



WATER DIVISION/LAND RESOURCES MANAGEMENT WETLANDS BUREAU

(Keep this sheet for your reference; do not submit it with your application)

RSA/Rule: RSA 482-A/ Env-Wt 204

SECTION 1 - WAIVER CRITERIA

SECTION 1A - CRITERIA FOR WAIVERS TO RULES (Env-Wt 204.05)

- (a) The Department shall grant a waiver to a requirement established in subtitle Env-Wt that will not extend the duration of a wetlands permit only if:
(1) Granting a waiver will not result in:
a. An avoidable adverse impact on:
1. The environment or natural resources of the state, including but not limited to jurisdictional areas and protected species or habitat; or
2. Public health or public safety;
b. An impact on abutting properties that is more significant than that which would result from complying with the rule; or
c. A statutory requirement being waived; and
(2) Any benefit to the public or the environment from complying with the rule is outweighed by the operational or economic costs to the applicant.
(b) The Department shall grant a waiver that has the effect of extending the duration of a wetlands permit that does not qualify for the statutory extension under RSA 482-A:3, XIV-a only if:
(1) The permit holder:
a. Was precluded from proceeding under the permit due to actions taken by persons opposed to the project; or
b. Rationally refrained from proceeding under the permit due to reasonable uncertainties surrounding the project's legal viability, which shall not include uncertainties regarding the project's financial viability;
(2) If other permits are required for the project, at least one other permit already has a duration that extends beyond the expiration of the wetlands permit or, if the other permit expires concurrently or prior to the wetlands permit, the permit holder reasonably anticipates that an extension will be obtained; and
(3) Extending the permit will not result in:
a. Adverse impacts on public health or safety, or the environment or natural resources of the state, that would be greater than those accounted for in the permit that was issued; or
b. Adverse impacts on abutting properties that is more significant than that which would have resulted if the project had been initiated in time to be completed during the permit term.

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

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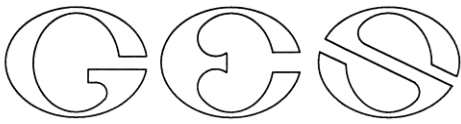
SECTION 1B - CRITERIA FOR WAIVERS UNDER RSA 482-A:26, III(b) (Env-Wt 204.06)

The Department shall grant a waiver under RSA 482-A:26, III(b) if:

- (a) The waiver will not result in:
 - (1) An avoidable adverse impact on the environment or natural resources of the state, public health or public safety;
 - (2) Any interference with the public trust in waters held by the state; or
 - (3) An adverse impact on abutting properties that is more significant than that which would result from complying with the rule; and
- (b) The following criteria from RSA 482-A:26, III(b) are met:
 - (1) The effect of the requested repair or reconstruction represents greater protection of public water or the environment;
 - (2) Such repair or reconstruction does not change a recreational, water-based activity to a land-based, residential or commercial activity;
 - (3) There will be no expansion of the existing footprint, outside dimensions, or square footage of floor space; and
 - (4) There will be a net reduction in the total square footage of kitchen, bathroom, shower, and toilet facilities.

SECTION 2 – DECISION (Env-Wt 204.07)

- (a) The Department shall notify the requestor of the decision in writing. If the request is denied, the Department shall identify the specific reason(s) for the denial.
- (b) If a waiver is granted, the Department shall impose such conditions, including time limitations, as the Department deems necessary to ensure that the activities conducted pursuant to the waiver will be consistent with the applicable criteria.



Date: December 10, 2023

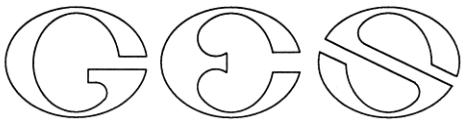
Subject: Functions and Values Analysis

Re: Minor Dredge and Fill Application
333 Borthwick Ave, Portsmouth

The subject property located on 333 Borthwick Ave, in Portsmouth, NH, identified by Tax map 240 Lot 2-1. This is an after the fact project, consisting of the construction of an addition to Portsmouth Regional Hospital to accommodate an newly developed Oncology Wing. The project area was reviewed and field delineated by Brenden Walden, a NH CWS, in the fall of 2019. During the wetland delineation of the property, two wetlands were identified within the scope of the project area with a third off property. These wetlands area identified and discussed below as Wetland A, B, & C. Wetland B the wetland observed off property is discussed as the wetland has been identified as a state prime wetland with a duly established 100 ft wetland buffer that encroaches into the project area. A wetland function and value assessment was conducted using the US Army Corps Highway Methodology for the three wetlands identified and will be discussed in more detail below.

The US Army Corps Highway Methodology considers 13 categories of function or value within a particular wetland area:

- 1. Groundwater recharge/discharge:** This function considers the potential for a wetland to serve as a groundwater recharge and/or discharge area. Recharge should relate to the potential for the wetland to contribute water to an aquifer. Discharge should relate to the potential for the wetland to serve as an area where ground water can be discharged to the surface.
- 2. Floodflow Alteration:** This function considers the effectiveness of the wetland in reducing flood damage by attenuation of floodwaters for prolonged periods following precipitation events.
- 3. Fish and Shellfish Habitat:** This function considers the effectiveness of seasonal or permanent water bodies associated with the wetland in question for fish and shell fish habitat.
- 4. Water Quality—Sediment/Toxicant/Pathogen Retention:** This function reduces or prevents degradation of water quality. It relates to the effectiveness of the wetland as a trap for sediments, toxicants or pathogens.
- 5. Water Quality—Nutrient Removal/Retention/Transformation:** This function relates to the effectiveness of the wetland to prevent adverse effects of excess nutrients entering aquifers or surface waters such as ponds, lakes, streams, rivers or estuaries.
- 6. Production Export:** This function relates to the effectiveness of the wetland to produce food or usable products for human, or other living organisms.
- 7. Sediment/Shoreline Stabilization:** This function relates to the effectiveness of a wetland to stabilize stream banks and shorelines against erosion.
- 8. 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.
- 9. Recreation:** This value considers the effectiveness of the wetland and associated watercourses to provide recreational opportunities such as canoeing, boating, fishing, hunting and other active or passive recreational activities. Consumptive opportunities consume or



diminish the plants, animals or other resources that are intrinsic to the wetland, whereas non-consumptive opportunities do not.

- 10. 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.
- 11. Uniqueness/Heritage:** This value relates to the effectiveness of the wetland or its associated water bodies to produce certain special values. Special values may include such things as archeological sites, unusual aesthetic quality, historical events, or unique plants, animals, or geological features.
- 12. Visual Quality/Aesthetics:** This value relates to the visual and aesthetic qualities of the wetland.
- 13. Threatened or Endangered Species Habitat:** This value relates to the effectiveness of the wetland or associated water bodies to support threatened or endangered species

Functions are self-sustaining properties of wetlands, which exist in the absence of human involvement. Values refers to the benefits gained by human society from a given wetland or ecosystem and their inherit functions. Functions and values identified as “Principal” have been determined to be significant features of the wetland being evaluated. This does not necessarily indicate the wetland supports these functions or values at a significant level in comparison to other wetlands in the region or even near the site. A discussion of the evaluated areas and the associated functions and values is provided in the sections below.

Wetland A:

Wetland A is a man-made wetland system designed to direct stormwater around the hospital ground with hydrologic connections to adjacent wetlands through existing culverts. The wetland is dominantly vegetated with Phragmites, with some shrubs and trees existing along the boundary of the wetland. Areas of open water with unknown depth are present, and there is identified flow occurring near the norther outlet structure. Functions and values associated with this wetland identified with this wetland include, Groundwater Recharge/Discharge, Floodflow Alteration, Sediment and Toxicant Retention, Nutrient Removal, Production Export, Sediment and Shoreline Stabilization, and Wildlife Habitat. These functions are attributed to the nature of the wetland’s development, existing dense vegetation, association with a watercourse and hydrologic connectivity up and down stream. This wetland had no impacts with the associated expansion and is not expected to have any observable effects to the existing identified functions of the wetland.

Wetland B:

Wetland B is a wetland identified off site to the south of the subject property that is classified as a state prime wetland with a duly established 100ft prime wetland buffer that extends on the subject property and encroaches into the project area. This is a large emergent wetland with various areas of ponded water occurring within the wetland. Functions identified with this wetland system included, Groundwater Recharge/Discharge, Floodflow Alteration, Sediment and Toxicant Retention, Nutrient Removal, Production Export, and Wildlife Habitat. These functions would typically be protected by a natural wetland buffer, however, the 100 ft buffer in this case crosses an existing roadway feature and extends onto the subject property, a commercial with limited natural frontage. As it relates to the development of the constructed addition and the temporary impacts that occurred within the prime wetland buffer, to be revegetated, should not have any observable impacts to the identified functions and values of the adjacent off site prime wetland, or its buffer.

Wetland C:



Wetland C is a man-made legally constructed detention basin located south of the Portsmouth regional hospital. This is an isolated stormwater feature that has developed wetland characteristics with dense emergent vegetation growth throughout the area. This wetland is limited on its functions due to its isolated location, overall size, and origin. The functions identified with this wetland consist of Groundwater Recharge/Discharge, Sediment and Toxicant Retention, and Nutrient Removal all typical functions of a stormwater feature. A total of 200 sf of direct permanent impact is a result of the constructed addition, however, with the design of this project the overall size of this detention area has increased and is proposed to be revegetated per the landscaping plans. This expansion of the stormwater feature will likely result in a long term net benefit to the identified functions and values.

Overall, the applicant has limited all wetland impacts to the greatest extent practicable and designed the project to be the least impacting alternative practicable. Though the project is an after the fact the design worked effectively to ensure that there would be no significant loss to any of the overall functions and values of the wetlands identified on the subject property or to adjacent properties and resource areas. The proposed project has limited impacts to the lowest functioning wetland on property. Again, the stormwater feature that was impacted has been increased in size and will be revegetated to replicate pre-project conditions.

This concludes the functions and values analysis for the Minor Dredge and Fill Application for 333 Borthwick Ave, Portsmouth. If you have any other questions or believe I can assist you and any other way please feel free to contact me either by email: bwalden@gesinc.biz or by phone: 207- 710-7863.

Sincerely

Brenden Walden

President & Wetland Scientist
Gove Environmental Services, Inc.



A

C

B

Wetland Function-Value Evaluation Form

Total area of wetland unknown Human made? yes Is wetland part of a wildlife corridor? yes or a "habitat island"? no

Adjacent land use Commercial development and roadway Distance to nearest roadway or other development >50ft

Dominant wetland systems present R2UBFx Contiguous undeveloped buffer zone present no

Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? lower

How many tributaries contribute to the wetland? unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. A













Latitude _____ Longitude _____

Prepared by: BMW Date 12/7/23

Wetland Impact:
Type N/a Area N/a

Evaluation based on:
Office x Field x

Corps manual wetland delineation completed? Y x N _____

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	Y	1,2,4,6,7,9,15	y	wetland associated with a stream, has high density of vegetation, shows varying levels of water depth
 Floodflow Alteration	Y	3,4,5,6,7,8,9,10,11,12,13,15,16,18	y	Wetland associated with a watercourse hydrologically connected to upstream and down stream wetlands.
 Fish and Shellfish Habitat	n	hydroperiod unknown	n	Level of permanent water depth is unknown
 Sediment/Toxicant Retention	Y	1,2,3,4,5,6	y	Slow moving water with high density of vegetation
 Nutrient Removal	Y	3,4,5,6,7,8,9,10,11	y	dense vegetation for nutrient acquisition
 Production Export	Y	1,2,5,7,10,11,	y	associated with a watercourse with potential for flushing
 Sediment/Shoreline Stabilization	Y	1,2,3,4,12,13,15	y	bank of water course is effectively stable from existing vegetation
 Wildlife Habitat	Y	7,8,13,17,18,19,20,21	Y	man influenced wetland with associated water course and dense vegetation
 Recreation	n	10,11	n	private property
 Educational/Scientific Value	n	11,13,14	n	private property
 Uniqueness/Heritage	n	1,10,11,17,	n	private property
 Visual Quality/Aesthetics	n	6,9,12	n	private property
ES Endangered Species Habitat		See NHB		
Other				













Notes:

* Refer to backup list of numbered considerations.

Wetland Function-Value Evaluation Form

Total area of wetland unknown Human made? no Is wetland part of a wildlife corridor? unknown or a "habitat island"? no
 Adjacent land use Institutional, public transit Distance to nearest roadway or other development <50 ft
 Dominant wetland systems present pem1e Contiguous undeveloped buffer zone present yes
 Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? lower
 How many tributaries contribute to the wetland? unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. B
 Latitude _____ Longitude _____
 Prepared by: BMW Date 12/7/23
 Wetland Impact:
 Type temporary Prime wetland Buffer Area 961 sf
 Evaluation based on:
 Office Field
 Corps manual wetland delineation completed? Y N

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	Y	1,2,4,6,9,15	y	large, densely vegetative wetland
 Floodflow Alteration	Y	1,2,3,5,6,7,8,9,10,13,14,18	y	large wetland downstream of smaller wetlands
 Fish and Shellfish Habitat	n		n	no deep water habitat identified
 Sediment/Toxicant Retention	Y	1,3,4,5,6,7,8,9,10,12,15,16	y	large wetland with slow moving hydrology; dense vegetation present
 Nutrient Removal	Y	1,3,4,5,7,8,9,10,11	y	dense vegetation and slow moving hydrology
 Production Export	n	1,2,4,7,	n	no evidence of production leaving wetland
 Sediment/Shoreline Stabilization	n		n	no shoreline identified
 Wildlife Habitat	Y	1,3,6,7,8,13,16,18,19,20,	y	large prime wetland with varying levels of habitat structure to support species
 Recreation	Y	5,7,10,12	n	densely vegetated emergent wetland system with limited opportunities for recreation
 Educational/Scientific Value	Y	2,3,4,6,10,13,	n	no easily accessible access
 Uniqueness/Heritage	Y	1,10,13,16,17,	n	no easily accessible access
 Visual Quality/Aesthetics	Y	2,5,8,12	n	limited vegetation diversity and not easily accessed
ES Endangered Species Habitat		See NHB		
Other				

Notes:

* Refer to backup list of numbered considerations.

Wetland Function-Value Evaluation Form

Total area of wetland unknown Human made? yes Is wetland part of a wildlife corridor? no or a "habitat island"? no













Adjacent land use Commercial/roadway Distance to nearest roadway or other development >50 ft

Dominant wetland systems present PEM1 Contiguous undeveloped buffer zone present no

Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? lower

How many tributaries contribute to the wetland? unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. C
 Latitude _____ Longitude _____
 Prepared by: BMW Date 12/7/23
 Wetland Impact:
 Type Fill Area 200 SF
 Evaluation based on:
 Office Field
 Corps manual wetland delineation completed? Y N

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	Y	1,2,4,6,9,15	y	Man-Made detention basin with dense vegetation and variable water levels
 Floodflow Alteration	Y	2,5,6,8,14,18	n	Isolated man-made detention basin
 Fish and Shellfish Habitat	n		n	no deep water habitat identified
 Sediment/Toxicant Retention	Y	1,3,4,5,6,8,9	y	man made storm water feature
 Nutrient Removal	Y	3,4,5,7,8,9,10,	y	dense vegetation present
 Production Export	n		n	Isolated man made detention basin with no export occurring
 Sediment/Shoreline Stabilization	n		n	man made stormwater feature no shoreline present
 Wildlife Habitat	n	13,18,19,20,21	n	man made storm water feature in commercial area
 Recreation	n		n	private property / man-made detention basin
 Educational/Scientific Value	n		n	private property / man-made detention basin
 Uniqueness/Heritage	n		n	private property / man-made detention basin
 Visual Quality/Aesthetics	n	9	n	private property / man-made detention basin
ES Endangered Species Habitat		See NHB		
Other				

Notes:

* Refer to backup list of numbered considerations.



**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.)	N/A	
2.5 The overall project site is more than 40 acres?		X
2.6 What is the area of the previously filled wetlands?	Unknown	
2.7 What is the area of the proposed fill in wetlands?	200SF	
2.8 What is the % of previously and proposed fill in wetlands to the overall project site?	Unknown	
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: https://wildlife.state.nh.us/wildlife/wap-high-rank.html. • 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?	N/A	
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.

2.0 GENERAL INFORMATION

PREPARED BY (AGENT CONTACT): Brenden Walden

2.1 PROJECT NAME, PLANS, AND MAPS

PROJECT NAME: Portsmouth Regional Hospital Oncology Expansion

SITE PLANS/MAPS: Existing Conditions Plan
Proposed Plan
8½"x11" USGS Quad Sheet Locus Map
8½"x11" Wildlife Action Plan
8½"x11" Aerial Imagery
11x17" Overview Plan
11x17" Wetland Impact Plan Detail
11x17" Project Site Tax Map

2.2 TECHNICAL STANDARDS

- 2.2.1 Gove Environmental Services, Inc. delineated the wetlands during the spring of 2019, utilizing the standards of the Corps of Engineers *Wetlands Delineation Manual*¹ and the NH DES Wetlands Bureau *Code of Administrative Rules*².
- 2.2.2 Wetland flags were surveyed by Jame Vera and Associates Inc.
- 2.2.3 Wetlands were classified by GES utilizing the criteria of *Classification of Wetlands and Deepwater Habitats of the United States*³.
- 2.2.4 Dominant hydric soil conditions within the wetlands were identified by GES utilizing the criteria of *Field Indicators for Identifying Hydric Soils in New England*⁴.
- 2.2.5 Dominance of wetland vegetation was assessed by GES utilizing the *National List of Plant Species That Occur in Wetlands: Northeast (Region 1)*⁵.

¹ Environmental Laboratory. 2012. "Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Northcentral and Northeast Region." Version 2.0. Technical Report ERDC/EL TR-10-12.

² NH Code Admin. R. [Wt] Ch. 100-1000.

³ Cowardin, L. M., 1979. *Classification of Wetlands and Deepwater Habitats in the United States*. Washington, D.C.: U.S. Department of the Interior, Fish and Wildlife Service.

⁴ New England Hydric Soils Technical Committee, Version 4. June 2020. "Field Indicators for Identifying Hydric Soils in New England."

⁵ Lichvar, R.W. & Kartesz, J.T. 2009. North American Digital Flora: National Wetland Plant List. 2.2.1.

2.3 SITE DESCRIPTION/WETLANDS OVERVIEW

The ~20-acre subject property located on Tax Map 240 Lot 2-1 is a commercially developed property for the Portsmouth Regional Hospital located between Interstate 95 and Borthwick Ave. During the limited field assessment in 2019 two manmade emergent wetlands were identified. An isolated legally constructed man-made detention basin located along the frontage of the property, and a large drainage swale with hydrologic connectivity from both wetlands across Borthwick Ave and the adjacent property to the south west. A NH State Designated Prime Wetland (#015) with a duly established 100 ft buffer is located south of the property across from Borthwick Ave. Functions and values of each of those areas are to be discussed in more detail in the attached functional assessment below. The overall property is part of an urbanized area with both commerce and residential areas.

3.0 PROJECT OVERVIEW

The application is for an After the Fact impact that was identified with as the construction was about half underway. The after the fact information related to the impacts is discussed below. The project proposed an expansion of the existing building on property to accommodate an Oncology Wing for Portsmouth Regional Hospital. Due to the current layout and architectural design of the building the expansion area was limited to its proposed area. With the expansion 200 SF of wetland impact was directed to the man-made detention basin with an additional 2,918 SF total of temporary wetland impact. In addition, there was 961 SF of temporary impact identified that occurred within the 100 ft prime wetland buffer. This project impacted the exterior portions of the identified jurisdictional area as well as expanded the detention basin from its original size which will create a long-term benefit to the resource area. The functions and values of the impacted wetland will be replicated and potentially enhanced with the increase size to the area.

3.1 AFTER THE FACT APPLICATION

Env-Wt 311.12 After-the-Fact Applications.

(a) In addition to a complete application package as specified in Env-Wt 311.03, an after-the-fact application shall include the following:

(1) A current conditions plan that clearly identifies all disturbances and construction performed without a permit, delineated as specified in chapter 5 of the US ACE Regional Supplement, available as noted in Appendix B;

Please see attached plans reflecting the full build out.

(2) Copies of aerial photographs and other information to document the basis for the delineation;

A field delineation was conducted prior to the impacts associated with the project per the standards outlined in this application.

(3) A restoration plan for all impacted jurisdictional areas to be restored, prepared by a licensed professional, with a wetland delineation stamped by a certified wetland scientist;

The project is now complete and followed the build out plan as well as the landscaping plan associated with the project. No further restoration of the area should be required as the area was previously part of a man-made detention basin and will revegetate within the next growing season.

(4) A monitoring plan designed to ensure that the restoration is successful; and

The current conditions of the site are stable and vegetation in this area was proposed to remain emergent persistent as was currently present in the remaining areas of the detention basin. Additionally, the area was increased as to maintain its usefulness.

(5) An explanation as to why work was performed prior to having a permit.

Unfortunately at the time that the work was beginning the engineers were not experienced with state processes and how man-made wetlands are still considered jurisdictional at the state level. Once a City Conditional Use Permit was acquired they believed they could begin to conduct work on the property.

(b) Applications received after work is completed shall be subjected to the same technical review and criteria as any other standard application.

We understand and the application is believed to be a permissible project.

(c) The department's acceptance of an after-the-fact application shall not in any way preclude or limit the exercise of any enforcement authority conferred by law on the department, the attorney general, or any other federal, state, or local authority.

We understand.

(d) Subject to (e), below, the department shall process an after-the-fact application in accordance with Env-Wt 312 within 50 days of receiving an administratively complete after-the-fact application, including necessary attachments, for a project having less than one acre of impact and within 75 days for larger projects.

We understand the review timelines for this project.

(e) The time limits in (d), above, shall not apply if:

(1) The project is the subject of an ongoing enforcement investigation, enforcement action, or department of justice case, in which case the timeframe of the ongoing action shall take precedence; or

N/A

(2) The application requires additional information or requires the department to perform a field inspection of the project, in which case the department shall make its decision on the application within 60 days of the receipt of the additional information or completion of the field inspection, as applicable

We understand the time line as stated above.

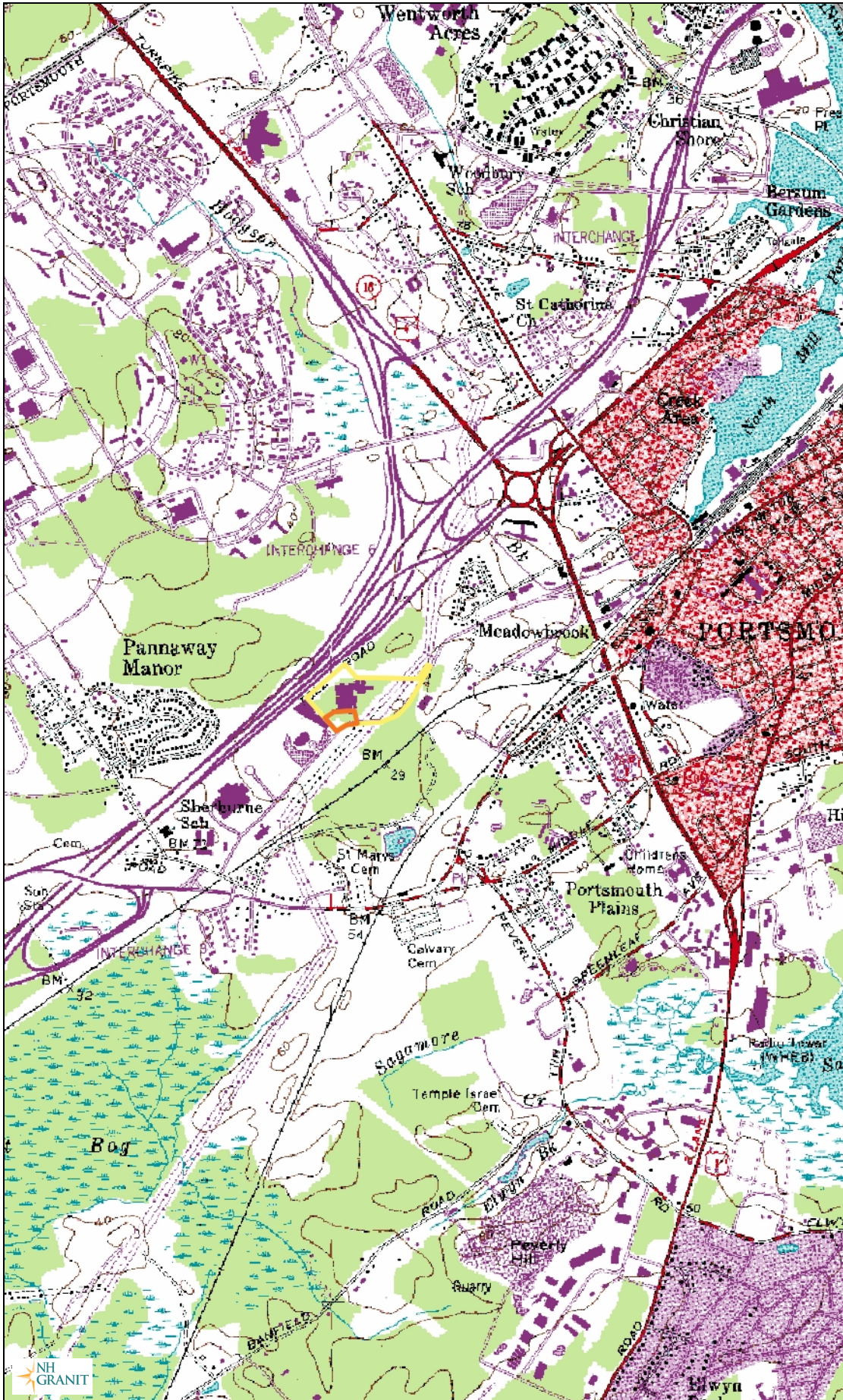
3.2 704.02 SUPPLEMENTARY INFORMATION AND CRITERIA FOR APPROVAL

Env-Wt 704.02 Supplementary Information and Criteria for Approval. An applicant for a project in a prime wetlands/buffer shall submit a functional assessment and impact analysis to demonstrate, by clear and convincing evidence as required by RSA 482-A:11, IV(a), that the criteria in RSA 482-A:11, IV(a) are met, namely that the proposed project, either alone or in conjunction with other human activity, will not result in the significant net loss of any of the values set forth in RSA 482-A:1, reprinted in Appendix D.

The 100 Ft Duly Established State Prime Wetland Buffer encroaches onto the subject property from across Borthwick Ave and has no direct wetland connectivity to the impacted wetland. As identified in the functions and values assessed for the impacted wetland per the ACOE Highway Methodology the man-made detention basin had minimal functions and values purely based on its limited size, location on the landscape and origin relative to the surrounding wetlands. As this wetland was constructed to serve as a detention basin for the purposed of stormwater management of a commercial property, the limited area that was disturbed within the prime wetland buffer will have no long-term negative effects to the functions and values of the disconnected prime wetland or its surrounding buffer. The area will also be revegetated per the landscaping plan attached to maintain the emergent vegetation within the wetland as well as the expansion area of the detention basin.

**1985 USGS QUAD SHEET LOCUS MAP
Scale 1:24,000**

USGS



Legend

- State
- County
- City/Town

Map Scale

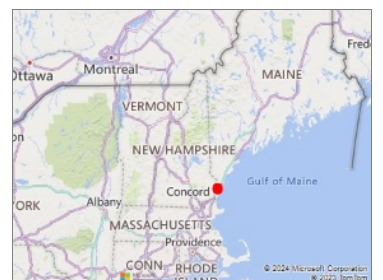
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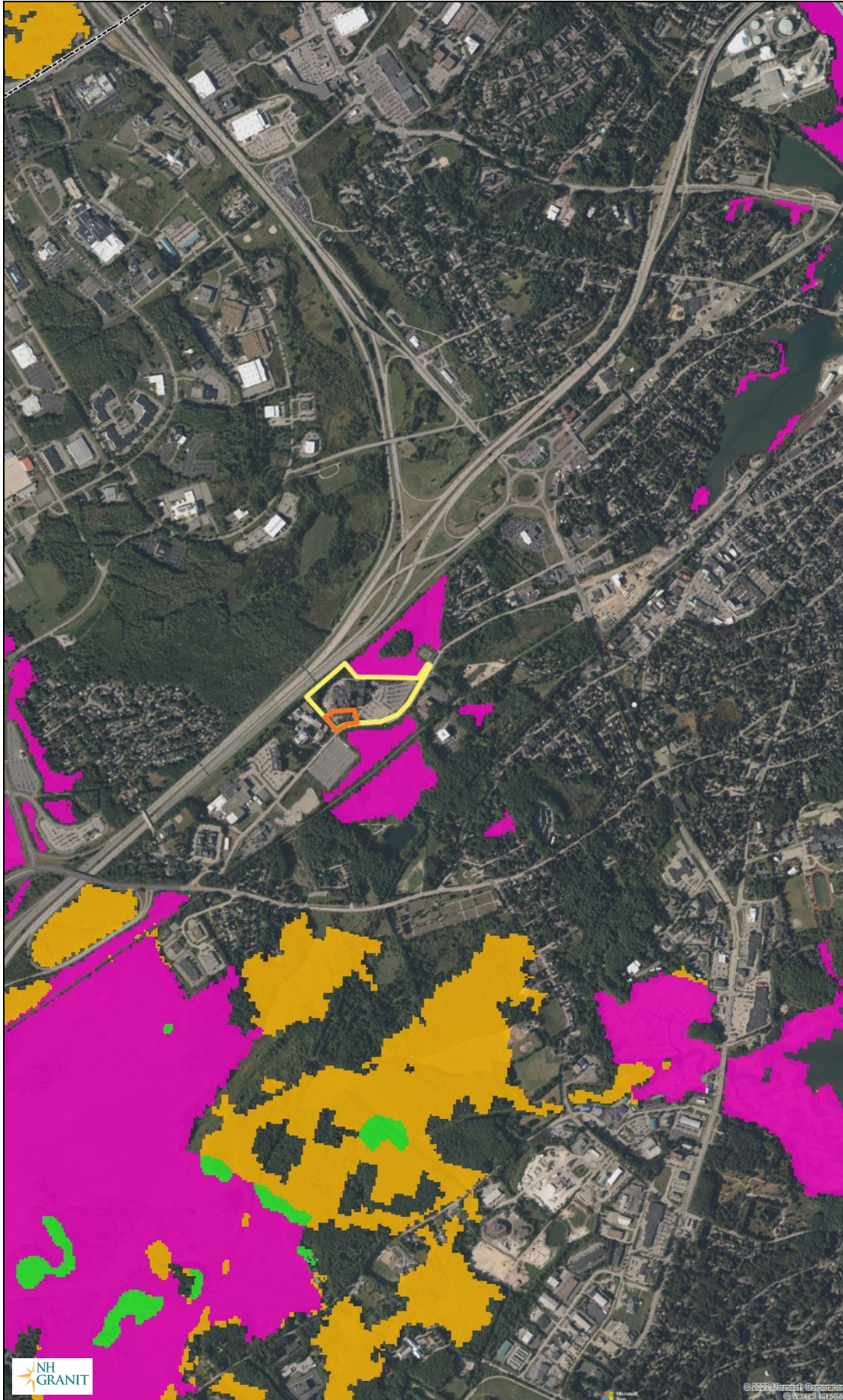


Notes



**Wildlife Action Plan
Scale 1:24,000**

Highest Ranked Habitat



Legend

- State
- County
- City/Town
- WAP 2020: Highest Ranked Wildlife Habitat
 - 1 Highest Ranked Habitat in NH
 - 2 Highest Ranked Habitat in Region
 - 3 Supporting Landscape

Map Scale

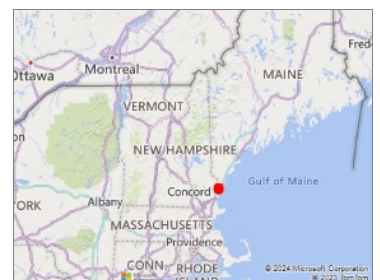
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Map Generated: 1/10/2024



Notes



Aerial Imagery

Aerial



Legend

- State
- County
- City/Town

Map Scale

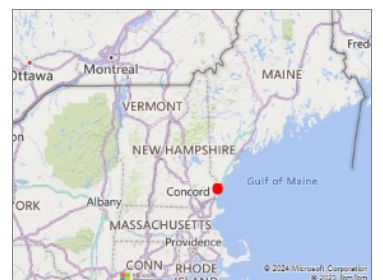
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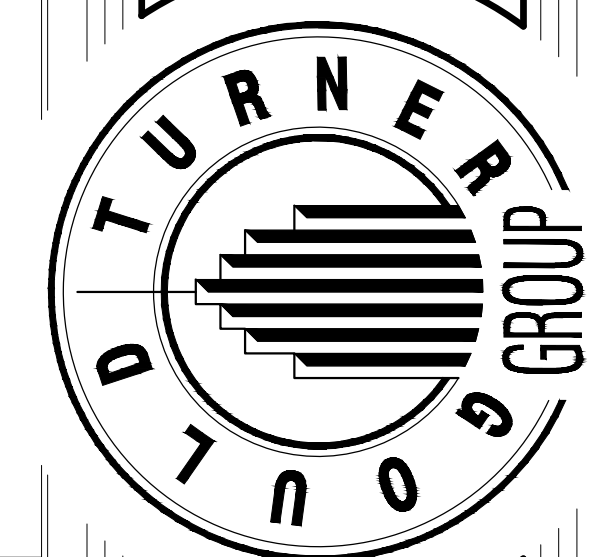
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Notes



EXISTING CONDITIONS PLAN



GENERAL CONTRACTORS

CIVIL CONSULTANT
KIMLEY-HORN & ASSOCIATES, INC.
401 WYMAN STREET, SUITE 305
WALHAM, MA 02455
MANAGER: CHRIS AREAS

STRUCTURAL CONSULTANT
STANLEY D. LINDSEY & ASSOC., LTD.
790 OLD HICKORY BLVD., BLDG 11, STE 175
BENTWOOD, TN 37027
MANAGER: MARK HILGER

M.P.E. & T. CONSULTANT
I.C. THOMASSON ASSOCIATES, INC.
2550 REAFER DRIVE, SUITE 500
NASHVILLE, TN 37204
MANAGER: JACK MCCOY

HCA
HCA DESIGN MANAGER
MICHAEL WALKER
HCA CONSTRUCTION MANAGER
RYAN MAGUIRE

- NOTES:**
- OWNER OF RECORD.....HCA HEALTH SERVICES OF NH, D/B/A PRH 32902
ADDRESS.....C/O DUCHARME MCMILLEN & ASSOCIATES
DEED REFERENCE.....2784/1340
TAX SHEET / LOT.....240-02-01
PARCEL AREA.....846,664 S.F. 19.44 ACRES
(1) INV (8" PVC)=19.04
(2) INV (10" PVC)=17.59
 - ZONED.....OFFICE/RESEARCH (OR) FRONT YARD SETBACK.....50'
MINIMUM LOT AREA.....3 ACRES SIDE YARD SETBACK.....75'
FRONTAGE.....300' REAR YARD SETBACK.....50'
 - THE RELATIVE ERROR OF CLOSURE WAS LESS THAN 1 FOOT IN 15,000 FEET.
 - THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES (E CATCH BASINS, MANHOLES, WATER GATES ETC.) AND INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENTAL AGENCIES. ALL CONTRACTORS SHOULD NOTIFY, IN WRITING, SAID AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE @ 1-888-DIG-SAFE.
 - HORIZONTAL DATUM: NAD 1983 ESTABLISHED BY SURVEY GRADE GPS OBSERVATION AND NGS "OPUS" SOLUTION. REFERENCE FRAME: NAD83 (2011) (EPOCH: 2010.0000), US SURVEY FOOT.
VERTICAL DATUM: NAVD 1988. PRIMARY BENCHMARK: CITY OF PORTSMOUTH "ALBA"
 - ENGINEER OR CONTRACTOR TO VERIFY SITE BENCHMARKS BY LEVELING BETWEEN 2 BENCHMARKS PRIOR TO THE ESTABLISHMENT OF ANY GRADES OR ELEVATIONS. DISCREPANCIES ARE TO BE REPORTED TO JAMES VERRA AND ASSOCIATES, INC..
 - THE PARCEL SHOWN HEREON LIES WITHIN ZONE X (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS IDENTIFIED ON FLOOD INSURANCE RATE MAP, ROCKINGHAM COUNTY, NEW HAMPSHIRE, MAP NUMBER 3301SC0260E, EFFECTIVE DATE MAY 17, 2005 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
 - LIMIT OF 300' EVERSOURCE ELECTRIC EASEMENT.
 - BRICK GENERATOR ENCLOSURE, TOP OF CONCRETE ELEV.=27.20
 - THE DELINEATION OF THE WETLANDS SHOWN HEREON WAS BY BRENDEN WALDEN NEW HAMPSHIRE CERTIFIED WETLAND SCIENTIST #297, GOVE ENVIRONMENTAL SERVICES, LLC, 8 CONTINENTAL DRIVE, UNIT H, EXETER, NH 03833.
 - THE SUBSURFACE UTILITIES SHOWN HEREON WERE IDENTIFIED BY WADE HANSEN, GROUND PENETRATING RADAR SYSTEMS, INC., 5217 MONROE STREET, SUITE A, TOLEDO, OHIO 43623.
 - AN EXISTING UTIL GAS LINE SOUTHWESTERLY OF THE HOSPITAL IN THE VICINITY OF THE LIBERTY MUTUAL PARCEL & A 6" OLD WATER LINE IN THE SAME AREA WERE NOT FIELD LOCATED BY GROUND PENETRATING RADAR SYSTEMS, INC.

- REFERENCE PLANS:**
- GAS LINE AS-BUILT EASEMENT AND CONSERVATION PLAN, PREPARED FOR HOSPITAL CORPORATION OF AMERICA, PORTSMOUTH, NH, DATED 10/31/85. RCRD PLAN #D-1583.0.
 - SCHILLER S/S-OCEAN ROAD S/S, 115 KV TRANSMISSION LINE #U181, MILE 4, PLANR-6775-A, DATED 7/10/2009, BY NORTHEAST UTILITIES, NOT RECORDED.
 - SUBDIVISION OF LAND, FRANELTAL REALTY COMPANY, OPTIONED TO LIBERTY MUTUAL INSURANCE COMPANY, PORTSMOUTH, NEW HAMPSHIRE, REVISION TO 2/19/71 RCRD PLAN #2190.

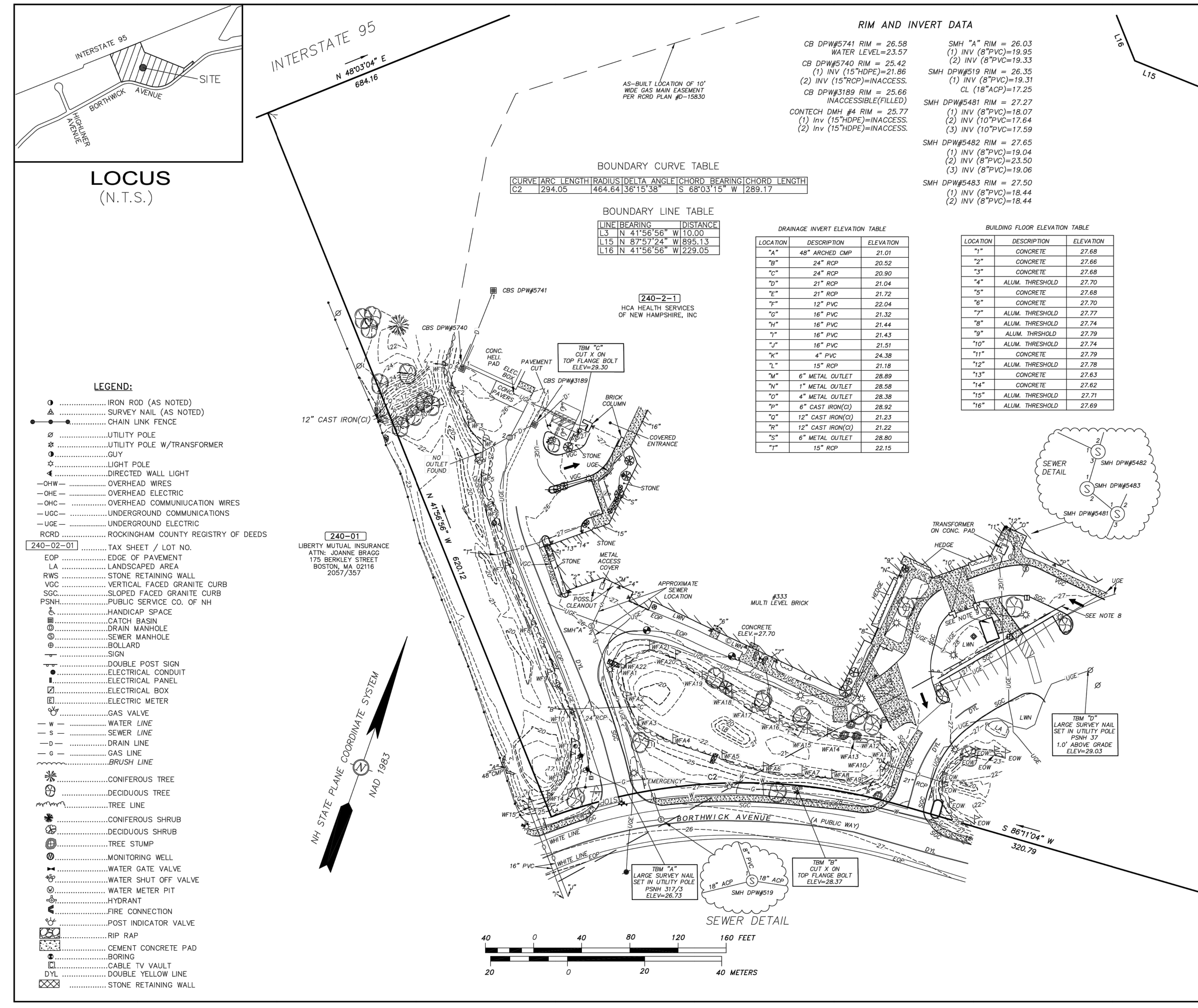
PURSUANT TO RSA 676:18,III AND RSA 672:14

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

James Verra
JAMES VERRA 11-19-2019
DATE



0	11-08-2019	FOR REVIEW & COMMENT	BY
REV. NO.	DATE	DESCRIPTION	APPROV
LIMITED EXISTING CONDITIONS PLAN 333 BORTHWICK AVENUE PORTSMOUTH, NEW HAMPSHIRE ASSESSOR'S PARCEL #240-002-001 for HCA HEALTH SERVICES OF NEW HAMPSHIRE JAMES VERRA and ASSOCIATES, INC. 101 SHATLUCK WAY SUITE B NEWINGTON, N.H., 03801-7876 603-436-3557			
GTD	PROJECT BY	GTD	DRAWN BY
COPYRIGHT © 2019 by JAMES VERRA and ASSOCIATES, INC.		DATE:	11-19-2019
		JOB NO:	23834
		SCALE:	1" = 40'
		DWG NAME:	23834
		PLAN NO:	23834
		SHEET:	1 of 1

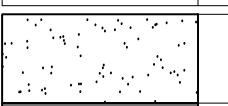


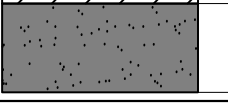



- LEGEND:**
- IRON ROD (AS NOTED)
 - SURVEY NAIL (AS NOTED)
 - CHAIN LINK FENCE
 - UTILITY POLE
 - UTILITY POLE W/TRANSFORMER
 - GUY
 - LIGHT POLE
 - DIRECTED WALL LIGHT
 - OVERHEAD WIRES
 - OVERHEAD ELECTRIC
 - OVERHEAD COMMUNICATION WIRES
 - UNDERGROUND COMMUNICATIONS
 - UNDERGROUND ELECTRIC
 - ROCKINGHAM COUNTY REGISTRY OF DEEDS
 - TAX SHEET / LOT NO.
 - EDGE OF PAVEMENT
 - LANDSCAPED AREA
 - STONE RETAINING WALL
 - VERTICAL FACED GRANITE CURB
 - SLOPED FACED GRANITE CURB
 - PUBLIC SERVICE CO. OF NH
 - HANDICAP SPACE
 - CATCH BASIN
 - DRAIN MANHOLE
 - SEWER MANHOLE
 - BOLLARD
 - SIGN
 - DOUBLE POST SIGN
 - ELECTRICAL CONDUIT
 - ELECTRICAL PANEL
 - ELECTRICAL BOX
 - ELECTRIC METER
 - GAS VALVE
 - WATER LINE
 - SEWER LINE
 - DRAIN LINE
 - GAS LINE
 - BRUSH LINE
 - CONIFEROUS TREE
 - DECIDUOUS TREE
 - TREE LINE
 - CONIFEROUS SHRUB
 - DECIDUOUS SHRUB
 - TREE STUMP
 - MONITORING WELL
 - WATER GATE VALVE
 - WATER SHUT OFF VALVE
 - WATER METER PIT
 - HYDRANT
 - FIRE CONNECTION
 - POST INDICATOR VALVE
 - RIP RAP
 - CEMENT CONCRETE PAD
 - BORING
 - CABLE TV VAULT
 - DOUBLE YELLOW LINE
 - STONE RETAINING WALL



SITE PLANS

SITE DATA TABLE		
OWNER OF RECORD	HCA HEALTH SERVICES OF NH INC D/B/A PRH 32902	
SITE ADDRESS	333 BORTHWICK AVE PORTSMOUTH, NH 03801	
SITE AREA	± 20.87 AC	
DISTURBANCE LIMITS W/ THIS PROJECT	± 0.7 AC	
TAX MAP & LOT	TAX MAP 240, LOT 2-1	
ZONING	OR - OFFICE RESEARCH	
SETBACKS	REQUIRED	PROPOSED
FRONT YARD SETBACK	50'-0"	±40'
REAR YARD SETBACK	50'-0"	±157'
SIDE YARD SETBACK	75'-0"	±71" (EXISTING)
MIN. OPEN SPACE ON A LOT	30%	±39.0%
MAX BUILDING COVERAGE	30%	± 20.1%
BUILDING DATA		
	EXISTING	PROPOSED ADDITION
HOSPITAL BEDS	233	0
HOSPITAL/ MOB FLOOR PLATE	±173,916 SF	± 8,700 SF
HOSPITAL GROSS AREA	±427,495 SF	± 8,870 SF
MEDICAL OFFICE BUILDING GROSS AREA (ATTACHED TO HOSPITAL BUILDING)	±46,665 SF	0 SF
BUILDING HEIGHT	± 65'-4"	± 14'-8"

PAVEMENT LEGEND		
	DESCRIPTION	DET # / C7.00
	SIDEWALK CONCRETE	1 / C7.00
	ASPHALT PAVEMENT	2 / C7.00
	CONCRETE PAVEMENT	3 / C7.00
	MOBILE IMAGING CONCRETE PAD	4 / C7.00
	SPECIALITY SIDEWALK PAVEMENT	NOTE THIS SHEET

SPECIALITY SIDEWALK PAVEMENT NOTE

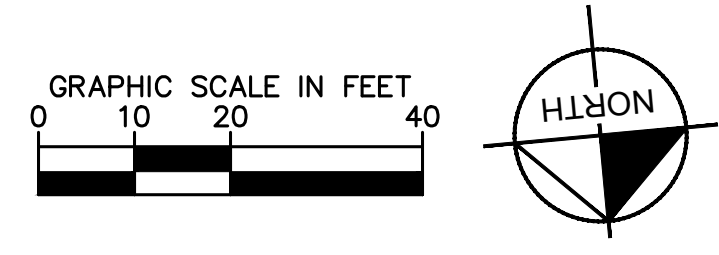
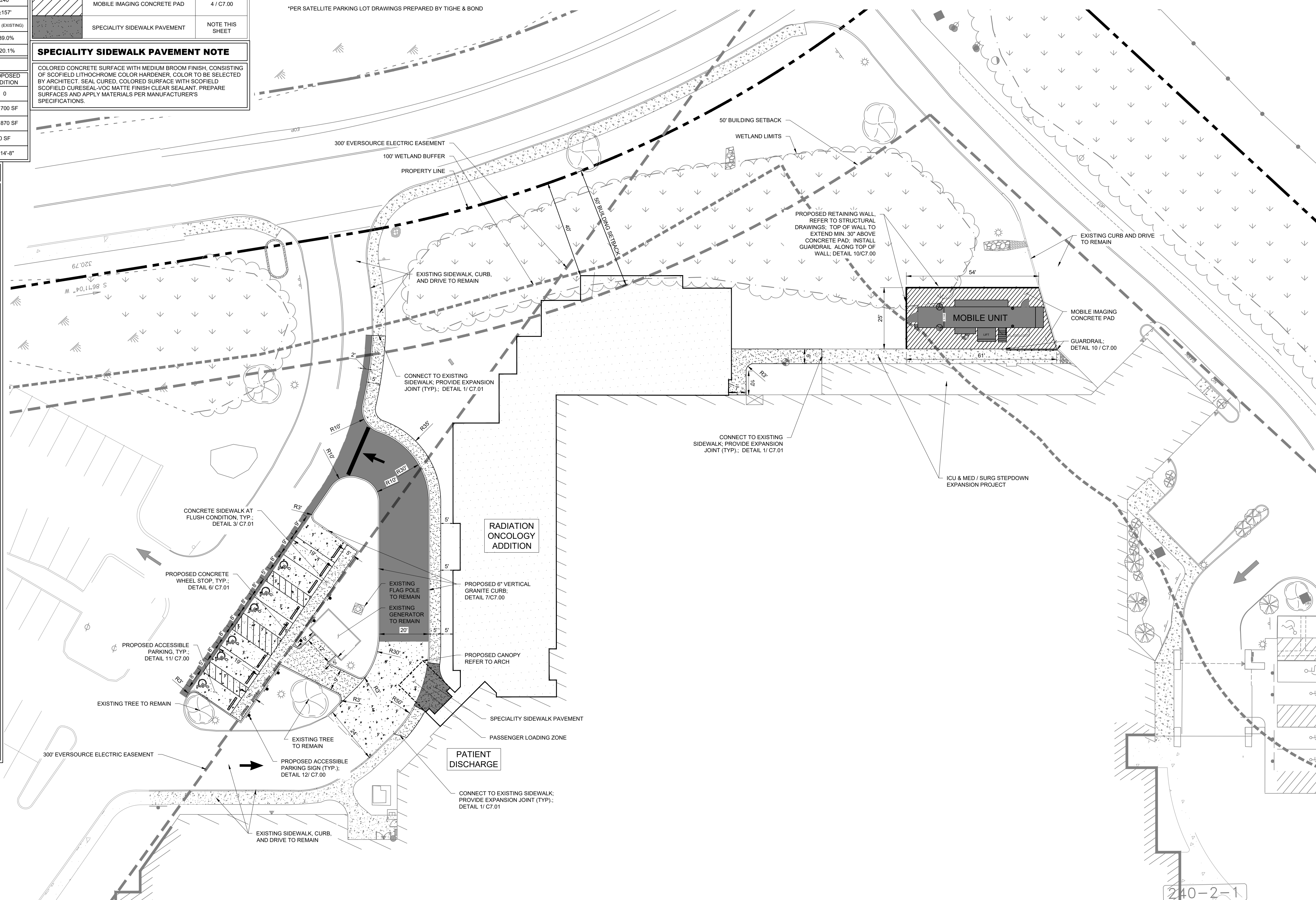
COLORED CONCRETE SURFACE WITH MEDIUM BROOM FINISH, CONSISTING OF SCOFIELD LITHOCHROME COLOR HARDENER, COLOR TO BE SELECTED BY ARCHITECT. SEAL CURED, COLORED SURFACE WITH SCOFIELD SCOFIELD CURESEAL-VOO MATTE FINISH CLEAR SEALANT. PREPARE SURFACES AND APPLY MATERIALS PER MANUFACTURER'S SPECIFICATIONS.

PARKING SUMMARY				
	EXISTING	DEMOLISHED	PROPOSED	NET RESULT
ONSITE STANDARD SPACES	754	11	2	745
ONSITE ACCESSIBLE (INCLUDING VAN ACCESSIBLE)	29	4	6	31
OFFSITE STANDARD SPACES*	0	0	490	490
OFFSITE ACCESSIBLE (INCLUDING VAN ACCESSIBLE)*	0	0	11	11
TOTAL				1277

*PER SATELLITE PARKING LOT DRAWINGS PREPARED BY TIGHE & BOND

SITE LAYOUT NOTES

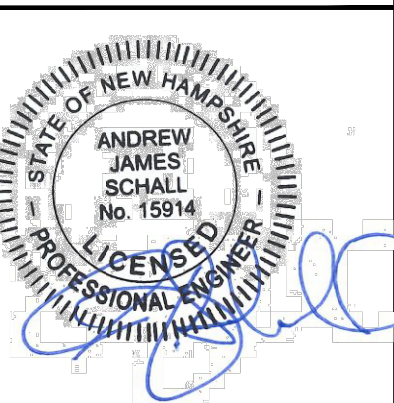
- INSTALL CONCRETE JOINTS WHERE SHOWN ON PLANS AND DETAILS. ALIGN ON WALLS, BUILDINGS, RADII, ETC. EVENLY SPACE BETWEEN ELEMENTS AS SHOWN. PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND ALL VERTICAL ELEMENTS (WALLS, CURBS, ETC.).
- ALL RADII ARE 3' UNLESS OTHERWISE NOTED.
- LAYOUT ALL CURVES SMOOTHLY WITH NO ABRUPT CHANGES AT TANGENT POINTS.
- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- LAYOUT ALL ELEMENTS IN FIELD AND CONTACT OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION.
- CONTRACTOR TO TAKE ALL PRECAUTIONS TO FIND AND AVOID SITE UTILITIES. ALL UTILITIES ARE NOT SHOWN ON DRAWING. VERIFY LOCATIONS AND CONSIDER SUCH WHEN ESTIMATING.
- ALL LANDSCAPE ISLANDS SHALL BE MOUNDED WITH TOPSOIL 4" ABOVE THE CURB LINE TO PROMOTE POSITIVE DRAINAGE.
- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL PAVEMENT MARKINGS ON-SITE ARE PAINT, UNLESS OTHERWISE NOTED.
- SAW CUT LINES SHALL BE DONE IN A STRAIGHT NEAT LINE A MINIMUM OF 18" FROM THE EXISTING EDGE OF PAVEMENT.
- IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE AND FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND CITY OF PORTSMOUTH SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE.
- PRIOR TO THE START OF THE CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE CONTACT PORTSMOUTH STORMWATER MGMT. AT (603) 427-1530 FOR A POTENTIAL SOIL EROSION AND SEDIMENT CONTROL, PRE-INSPECTION MEETING.
- THE CONTRACTOR MUST PROVIDE A DEWATERING PLAN, IF APPLICABLE, TO CITY OF PORTSMOUTH BUILDING AND SITE DEVELOPMENT DIVISION AT (603) 610-7243 FOR REVIEW PRIOR TO THE EROSION CONTROL MEASURES PRE-INSPECTION MEETING.
- ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
- RECORDING NOTE:
THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.
- TOPOGRAPHY AND EXISTING CONDITIONS FROM FIELD SURVEY PERFORMED BY JAMES VERRA & ASSOCIATES, INC. ON 10/2019.
- FLOOD HAZARD ZONE, ZONE X (OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN) PER F.I.R.M. #3301500260F, DATED 01/29/2021.
- HORIZONTAL DATUM IS BASED ON NAD 1983.
- VERTICAL DATUM BASED ON NAVD88.
- JURISDICTIONAL WETLANDS DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING OCTOBER 2019 IN ACCORDANCE WITH:
• 2012 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT ERD/C EL TR-12
• FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, APRIL 2019.
• US ARMY CORPS OF ENGINEERS NATIONAL WETLAND PLAN US, 2018.
• CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE U.S., USFW MANUAL FWS/OBS-79/31 (1979).
- UNDERGROUND ELECTRIC, WATER, GAS, & SEWER LOCATIONS BASED ON SURFACE MARKINGS BY GPRS, INC ON 10/2019.



Kimley»»Horn

404 WYMAN STREET, SUITE 385 WALTHAM, MA 02451
MAIN/781.328.0676 | WWW.KIMLEY-HORN.COM
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PORTSMOUTH REGIONAL
HOSPITAL
RADIATION ONCOLOGY ADDITION
PORTSMOUTH, NEW HAMPSHIRE



DATE	BY	REVISIONS

DESIGNED BY: ZCN
DRAWN BY: ZCN
CHECKED BY: MEH
DATE: 06/28/2022
KIMLEY-HORN PROJECT NO. 118252004

SITE LAYOUT - ENLARGEMENT

C4.01

WETLAND IMPACT PLAN

RESPONSIBILITY: ZCN
 CHECKED BY: SKA
 DATE: 04/25/2022

PORTSMOUTH REGIONAL HOSPITAL
 RADIATION ONCOLOGY ADDITION
 333 BORTHWICK AVE. PORTSMOUTH, NH
 HCA# 3790200021
 GTF# 3766305

GRADING PLAN LEGEND

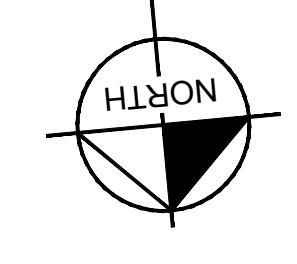
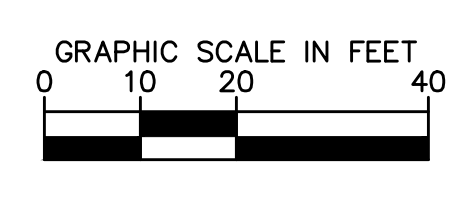
28.60	SPOT ELEVATION	LP	LOW POINT
HP	HIGH POINT	TC	TOP OF CURB
TS	TOP OF WALL	TS	GRADE AT TOPSIDE OF WALL
TS	GRADE AT TOPSIDE OF WALL	BS	GRADE AT BOTTOMSIDE OF WALL
ME	MEANS EXISTING	ME	MEANS EXISTING
FFE	FINISH FLOOR ELEVATION		
27	EXISTING CONTOUR		
27	PROPOSED CONTOUR		

WETLAND IMPACT LEGEND

DESCRIPTION	AREA
TEMPORARY WETLAND DISTURBANCE	4,400 SF
PERMANENT WETLAND DISTURBANCE	200 SF
PROPOSED WETLANDS	1,150 SF

WETLAND SUMMARY

EXISTING WETLAND AREA	± 10,300 SF
PERMANENT WETLAND DISTURBANCE	± 200 SF
PROPOSED WETLAND ADDED	± 1,150 SF
NEW WETLAND AREA	± 11,250 SF



WETLAND DISTURBANCE EX. A



HCA DESIGN MANAGER
 MICAL MAJIK
 HCA CONSTRUCTION MANAGER
 RYAN MAGUIRE PH: 605-344-2487

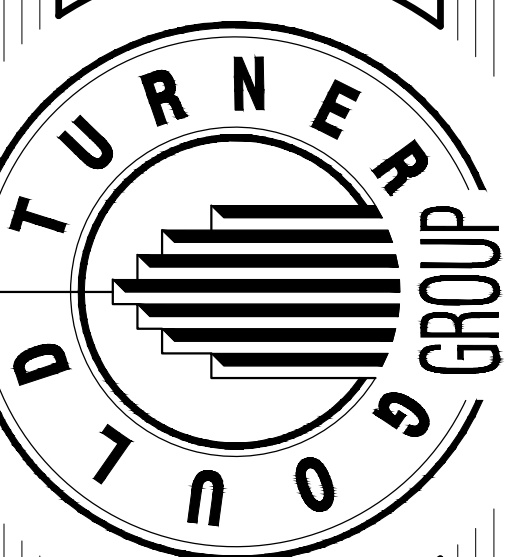
M.P.E. & T. CONSULTANT
 I.C. THOMASSON ASSOCIATES, INC.
 2950 ARABET DRIVE, SUITE 500
 NASHVILLE, TN 37204
 MANAGER: JACK MCCOY

STRUCTURAL CONSULTANT
 STANLEY D. LINDSEY & ASSOC., LTD.
 750 OLD HICKORY BLVD., BLDG 11, STE 175
 BRENTWOOD, TN 37027
 MANAGER: MARK HILGER

CIVIL CONSULTANT
 KIMLEY-HORN & ASSOCIATES, INC.
 401 WYMAN STREET, SUITE 305
 WALTHAM, MA 02451
 MANAGER: CHRIS AREES

VENDOR INFORMATION

WETLAND DISTURBANCE EX. A



**PORTSMOUTH REGIONAL HOSPITAL
 RADIATION ONCOLOGY ADDITION**
 333 BORTHWICK AVE. PORTSMOUTH, NH
 HCA# 3790200021
 GTF# 3766305

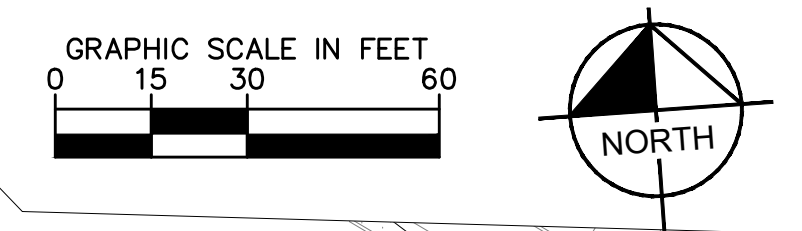
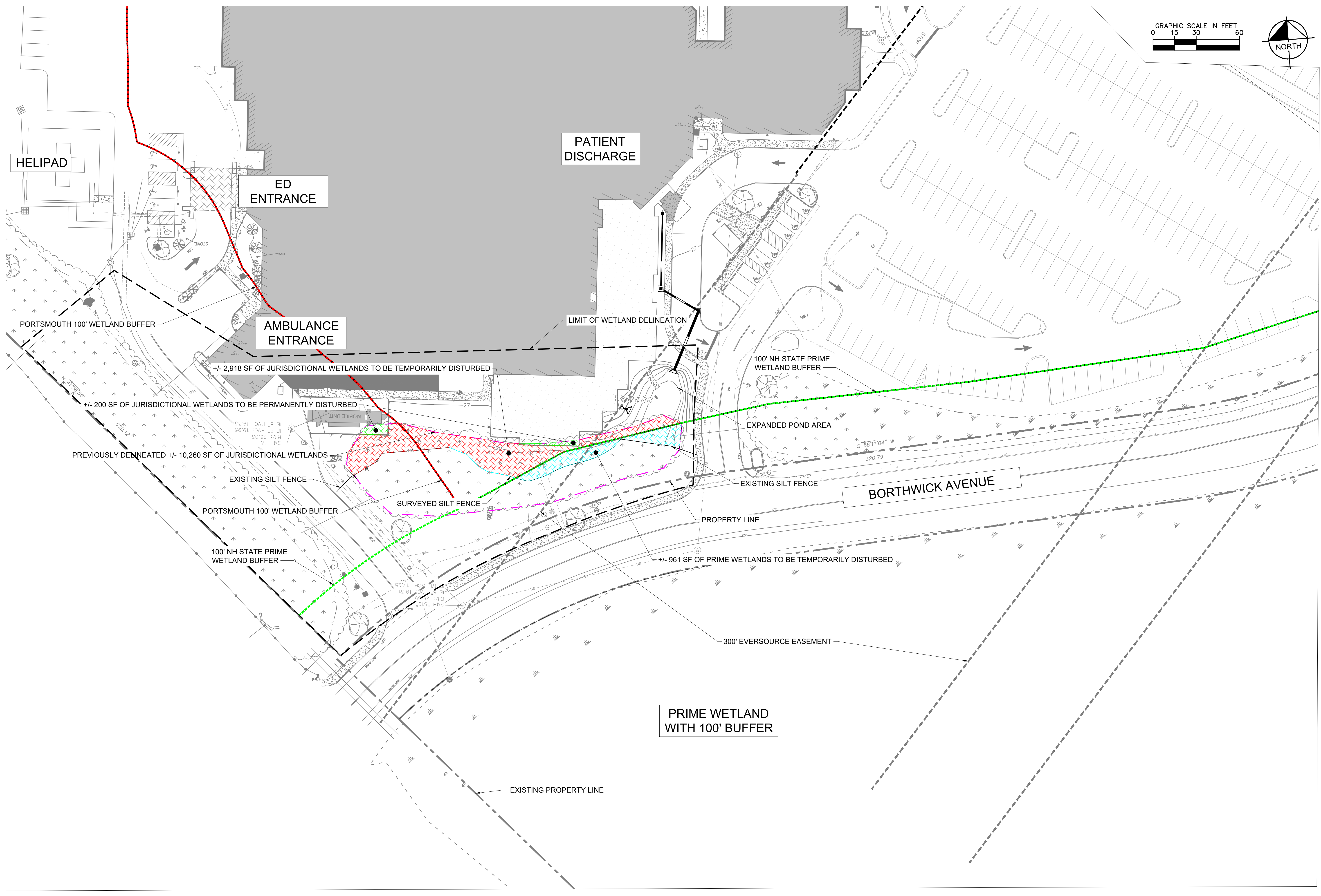
GOULD TURNER GROUP, P.C.
 ARCHITECTURE
 615 3RD AVENUE SOUTH, SUITE 600
 NASHVILLE, TENNESSEE 37210
 © Copyright by Gould Turner Group - 2022

CONSTRUCTION - PRICING DOCUMENTS - SET

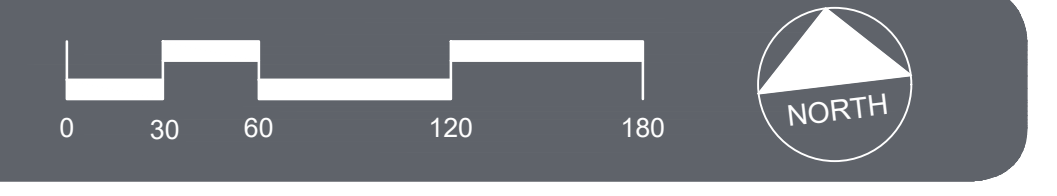
REVISIONS:
 DATE: 04/25/2022



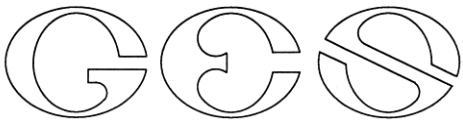
Architects - Planners - Interiors



LEGEND		
TEMPORARILY DISTURBED WETLAND		+/- 2,918 SF
PERMANENTLY DISTURBED WETLAND		+/- 200 SF
TEMPORARILY DISTURBED PRIME WETLAND		+/- 961 SF



PHOTOLOG OF IMPACT AREAS



GOVE ENVIRONMENTAL SERVICES, INC.

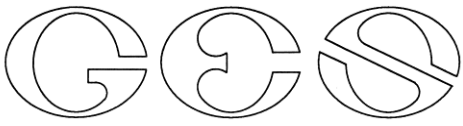
Photo Log
Portsmouth Regional Hospital
Taken: 5/17/23



Photo #1: Looking at the dewatering area for the project.



Photo #2: Another view of the dewatering system.



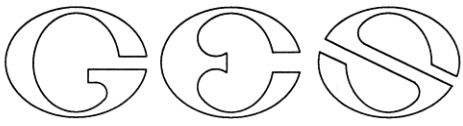
GOVE ENVIRONMENTAL SERVICES, INC.



Photo #3: Looking at the construction area from Borthwick Ave.



Photo #4: Looking at the active construction area.



GOVE ENVIRONMENTAL SERVICES, INC.



Photo #5: Looking at the ongoing construction and erosion control.



Photo #6: Looking at the ongoing construction and erosion controls.

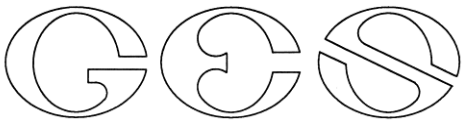
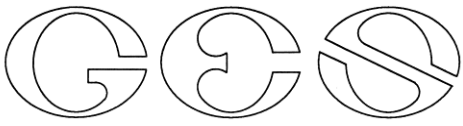


Photo #7: Looking at the erosion control methods adjacent to the construction.



Photo #8: Another view of the erosion control measures.



GOVE ENVIRONMENTAL SERVICES, INC.



Photo #9: Looking at the ongoing construction and erosion controls.



GOVE ENVIRONMENTAL SERVICES, INC.

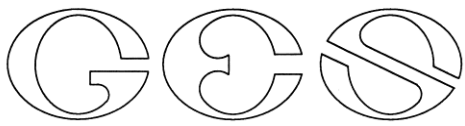
Updated Photo Log
Portsmouth Regional Hospital
Taken: 9/6/23



Photo #1: Looking at the dewatering system that doesn't appear to be in use anymore.



Photo #2: Looking at the continued construction at the location of the mobile unit.



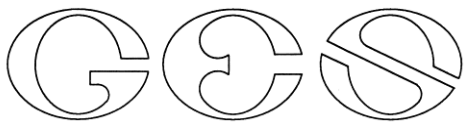
GOVE ENVIRONMENTAL SERVICES, INC.



Photo #3: Looking at the construction activities from Borthwick Ave.



Photo #4: Looking at the almost complete exterior structure.



GOVE ENVIRONMENTAL SERVICES, INC.

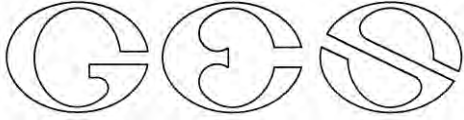


Photo #5: Looking at the almost finished exterior of the ongoing construction.



Photo #6: Looking at the ongoing construction and stable erosion control methods.

FIS 1004 CONSULTATION PACKAGE



GOVE ENVIRONMENTAL SERVICES, INC.

January 10, 2024

NH Fish and Game Department
Attn. Wildlife Division, Nongame Program
11 Hazen Drive
Concord, N.H. 03301

**Re: Request for NHFG Fis 1004 Consultation
NHB23-2592
Portsmouth Regional Hospital Oncology Expansion
333 Borwick Ave
Portsmouth, NH**

Dear NHF&G Reviewer:

We are pleased to provide the following information and enclosed documents in support of a consultation under Fis1004 for the after the fact construction of the oncology expansion for Portsmouth regional hospital in Portsmouth, NH. Several figures depicting the location of the site and proposed work have been attached along with photographs of the site. A wetland report and fill set of plans are included under separate cover.

Fis 1004.03 (c) The following information shall be provided to the department:

(1) A copy of the department of natural and cultural resources NHB DataCheck tool results letter, dated within one year of the date of the consultation request, and which includes the DataCheck tool results letter number;

Please see attached NHB23-2592

(2) The applicant's full name;

HCA Health Services of New Hampshire

(3) The applicant's mailing address;

*PO box 80601
Indianapolis, IN, 46580*

(4) The applicant's telephone number and email address to be used for the purpose of contact;

Attention: Trip DeMoss
Trip.DeMoss@hcahealthcare.com
615.344.1604

(5) If the applicant is a corporation, firm, partnership, association, institution, or public or private agency, the name, mailing address, and email address of the person who will respond to requests for information on behalf of the applicant;

Brenden Walden
Gove Environmental Services, Inc.
bwalden@gesinc.biz
207-710-7863

(6) The name, mailing address, and email address of any person acting as an agent of the applicant, or any consultant who will submit information to the department on behalf of the applicant;

Brenden Walden
Gove Environmental Services, Inc.
bwalden@gesinc.biz
207-710-7863

(7) Description of the proposed action;

The applicant is applying to NH DES for an After the Fact Dredge and Fill Permit for permanent impacts to a man-made detention basin. The project at this time is completed and no further work is being proposed on this area of the property. The project resulted in 200 SF of permanent impact to man-made emergent wetland that was field delineated in 2019. Temporary impacts were associated with the project and are to be restored per the attached landscaping plan.

(8) Description of the project parcel by reference to street address and town, and, if available, a geographical information system defined project boundary;

The ~20-acre project parcel is located on 33 Borthwick Ave, Portsmouth, NH identified on the assessors map as Tax Map 240 Lot 2-1. A tax map has been attached outlining the location of the property.

(9) A listing of any state or federal permits which have been applied for, have been granted, or which will be necessary for the proposed action to proceed;

This is an After the Fact Permit application that will be submitted to NH DES to be in compliance. This will also require a General Permit from ACOE to be in compliance as well.

(10) The current condition of the action area prior to any proposed modifications, including a description of known or discernible actions within the preceding 24 months that have altered the site, including but not limited to, timber harvests, significant impact from storms, removal of gravel or stone, or addition or removal of structures;

Prior to the work having commenced the conditions of the project area consisted of maintained lawn area and moderately maintained detention area with dense cattail growth throughout. As of now the project area is stable and does not have any active work occurring as the project construction is complete.

(11) Any habitat features supporting or that could support threatened and endangered species that have been identified; and

Blanding's Turtle (*Emydoidea blandingii*)

Found in wetland habitats with permanent shallow water and emergent vegetation such as marshes, swamps, bogs, and ponds. Use vernal pools extensively in spring and while traveling through the landscape. May use slow rivers and streams as mechanisms for dispersal between wetlands. Extensive use of terrestrial habitats for nesting and travel among wetlands.

The identified wetlands on site have the capability to be considered potentially suitable habitat for this species however access between wetlands is considered bisected by roadways or constricted by crossings. Since a majority of the impact was considered, temporary there should be no long-term disruptions in this area.

(12) A description of any conservation measures proposed by the applicant to avoid, minimize, or mitigate potential harm to threatened and endangered species and habitat determined to be critical, including but not limited to:

a. Design modifications to proposed actions to protect species from harm.

As this is an After the Fact application it is unclear what design modification were proposed to protect the identified species from harm. At this time the project is complete and there are no construction activities taking place.

b. Modifications to proposed actions such as alteration of the timing of proposed actions to protect species from harm;

As previously stated, this is an After the Fact application and it is unclear if time of year or other actions were taken to protect the species. At this time the project is complete and there are no construction activities taking place.

c. Design crossing structures to maintain and enhance habitat quality and accommodate movement of species;

Based on the proposed plans no crossing structures were proposed with this project.

d. Education and training for construction personnel as to what construction activities have the potential to cause adverse impacts to species;

As previously stated, this is an After the Fact application and it is unclear if educational training for construction personnel was conducted prior to construction activities to protect the species. At this time the project is complete and there are no construction activities taking place.

e. Signage to identify specific locations where construction activities must avoid potential adverse impacts to species;

To my knowledge no signage was placed as it applies to Blandings Turtles.

f. Continued research and monitoring of identified species;

N/A.

g. Protection or restoration of wildlife corridors;

This After the Fact impact was to an isolated man made detention basin with primary impacts being temporary with no long term impacts to any potential corridors that may exist.

h. Maintenance, enhancement, or protection of habitat buffer areas; and

None were proposed with this project.

i. Habitat protection, management, or restoration.

None were proposed with this project.

(d) An applicant seeking consultation to meet permit requirements under Env-Wt 311, Env-Wq 1406.06, or Env-Wq 1503.05, shall provide the following additional information to the department to initiate consultation:

(1) A topographic map identifying the action area at a scale of 1:24,000 or closer, and which shows property lines and the limits of proposed disturbance;

See attached Proposed Impact Map showing the buildout of the After the Fact impact.

(2) An aerial photograph identifying the current condition of the action area at a scale of 1:24,000 or closer and which shows property lines and the limits of proposed disturbance;

See attached most recent google earth aerial photography of the project area.

(3) Site photographs with dates and a photograph location plan, showing existing conditions, habitat features, and possible locations of identified threatened and endangered species, if known;

See attached photo log and photo map.

(4) Project site plan sheets showing the area of proposed disturbance and location of any proposed new or modified structures;

See attached plan sheets.

(5) Any reports created to assess the site, including but not limited to wetland assessments, vernal pool surveys, or other site visit observations; and

Please see attached Wetland Delineation Letter of Findings.

(6) Any other available information, from whatever source, that describe the potential impacts of the proposed action on listed species or habitat.

N/A.

(e) Consultation sought for an “after the fact” permit shall provide the following additional information to the department to initiate consultation:

(1) If pursuant to Env-Wt 311.12:

a. A restoration plan for all impacted jurisdictional areas to be restored, prepared by a licensed professional, with a wetland delineation stamped by a certified wetland scientist;

There is no proposal for a formal restoration of the impacted jurisdictional areas. The temporary impacts will be restored per the proposed landscaping plan.

b. A monitoring plan designed to ensure that the restoration is successful; and

There is no proposed monitoring plan for the disturbances to the man-made detention basin.

c. An explanation as to why work was performed prior to having a permit; or

The project went through the town process and received approvals at the time level for impacts to a man-made wetland. There was a miscommunication with the engineering team, contractors, and GES. At the conception of the project GES was waiting for a determination on classification of permitting level due to the possible encroachment. During this time the engineering team, moved forward with the city permitting for the project, which was approved. Since we had no direction from DES and the project changed hands within the engineering firm, there was a disconnect as it relates to what is required to impact jurisdictional wetlands, man-made or not. This was addressed as the engineer reached back out to GES as it relates to one of the criteria of approval that were required by the city. Since then we have met with DES and begun working towards a permit application with the engineer/applicant.

(2) If pursuant to Env-Wq 1503.31:

a. A current conditions plan that clearly identifies all disturbances and construction performed without a permit;

N/A not AOT related.

b. A description of all prior disturbances on the property; and

N/A not AOT related.

c. An explanation of why work was performed prior to having a permit.

N/A not AOT related.

Fis 1004.04 Signatures and Certifications Required.

(a) Each document, or group of documents intended as a single submission, that is submitted to the department, including but not limited to applications, requests, and reports, shall:

(1) If submitted in paper format, be signed and dated by the applicant, owner or the agent of either, and show the typed or printed name and title, if applicable, of the individual who signed; or

N/A

(2) If submitted in electronic format, be electronically signed and dated by the applicant, owner or the agent of either, and show the name and title, if applicable, of the individual who signed.

See below signature.

(b) Each physical or electronic signature required by (a), above, shall constitute certification by the signer that:

(1) The information contained in or otherwise submitted with the document is true, complete, and not misleading to the best of the signer's knowledge and belief; and

Initial: _____

(2) The signer understands that the submission of false, incomplete, or misleading information shall constitute grounds, pursuant to Fis 1004.13, for the department to:

a. Suspend consultation pending submission of true, complete, and not misleading information;

b. Terminate consultation;

c. Withdraw any recommendations made to the referring state agency under this part; or

d. Report the suspension, termination, or withdrawal of recommendations, and the full circumstances of the submission, to the referring state agency for action in the pending or completed request for a permit or other action.

Initial: _____

If you should have any questions or request for additional information, please don't hesitate to contact me directly. I look forward to your comments.

Sincerely,

Name: Brenden Walden Signature: _____
Title: President & CWS #297
Company: Gove Environmental Services, Inc. Date: January 10, 2024

Attachments: NHB
Aerial Photo
USGS Topo Map
Habitat Cover Map
Highest Ranked Wildlife Habitat Map
Wildlife Corridors Map/Secondary Wildlife Corridors Map
Prioritized Habitat Blocks Map
Conservation Parcels Map
NRCS Soils
Photo Log and Map
Project Plans

NHB



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

To: Brenden Walden, Gove Environmental Services, Inc.
8 Continental Drive Bldg 2 Unit H
Exeter, NH 03833
info@gesinc.biz

From: NHB Review
NH Natural Heritage Bureau
Main Contact: Ashley Litwinenko - nhbreview@dncr.nh.gov

cc: NHFG Review

Date: 09/05/2023 (valid until 09/05/2024)

Re: DataCheck Review by NH Natural Heritage Bureau and NH Fish & Game

Permits: NHDES - Wetland Standard Dredge & Fill - Minor, USACE - General Permit

NHB ID: NHB23-2592

Town: Portsmouth
Location: 333 Borthwick Ave

Project Description: The applicant is applying for an after the fact dredge and fill application for impacts to a manmade detention basin associated with the expansion of the hospital's new oncology wing. The impacts involve 200sf of direct permanent impact, 4,400 sf of temporary disturbance, with an expansion of the detention basin of approximately 1,150 SF. No additional wetland impacts are proposed in association with the hospital expansion project.

Next Steps for Applicant:

NHB's database has been searched for records of rare species and exemplary natural communities. Please carefully read the comments and consultation requirements below.

NHB Comments: No comments at this time.

NHFG Comments: Please refer to NHFG consultation requirements below. Please indicate how much of project is still in progress.

NHB Consultation

If this NHB DataCheck letter includes records of rare plants and/or natural communities/systems, please contact NHB and provide any requested supplementary materials by emailing nhbreview@dncr.nh.gov.

If this NHB DataCheck letter DOES NOT include any records of rare plants and/or natural communities/systems, no further consultation with NHB is required.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NH Fish and Game Department Consultation

If this NHB DataCheck letter DOES NOT include ANY wildlife species records, then, based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.

If this NHB DataCheck letter includes a record for a threatened (T) or endangered (E) wildlife species, consultation with the New Hampshire Fish and Game Department under Fis 1004 may be required. To review the Fis 1000 rules (effective February 3, 2022), please go to <https://www.wildlife.nh.gov/wildlife-and-habitat/nongame-and-endangered-species/environmental-review>. All requests for consultation and submittals should be sent via email to NHFGreview@wildlife.nh.gov or can be sent by mail, and **must include the NHB DataCheck results letter number and "Fis 1004 consultation request" in the subject line.**

If the NHB DataCheck response letter does not include a threatened or endangered wildlife species but includes other wildlife species (e.g., Species of Special Concern), consultation under Fis 1004 is not required; however, some species are protected under other state laws or rules, so coordination with NH Fish & Game is highly recommended or may be required for certain permits. While some permitting processes are exempt from required consultation under Fis 1004 (e.g., *statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule*), coordination with NH Fish & Game may still be required under the rules governing those specific permitting processes, and it is recommended you contact the applicable permitting agency. For projects not requiring consultation under Fis 1004, but where additional coordination with NH Fish and Game is requested, please email NHFGreview@wildlife.nh.gov, and include the NHB DataCheck results letter number and "review request" in the email subject line.

Contact NH Fish & Game at (603) 271-0467 with questions.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB Database Records:

The following record(s) have been documented in the vicinity of the proposed project. Please see the map and detailed information about the record(s) on the following pages.

Vertebrate species	State ¹	Federal	Notes
Blanding's Turtle (<i>Emydoidea blandingii</i>)	E	--	Contact the NH Fish & Game Dept (see below).

¹Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list.

An asterisk (*) indicates that the most recent report for that occurrence was 20 or more years ago.

For all animal reviews, refer to 'IMPORTANT: NHFG Consultation' section above.

Disclaimer: NHB's database can only tell you of known occurrences that have been reported to NHFG/NHB. Known occurrences are based on information gathered by qualified biologists or members of the public, reported to our offices, and verified by NHB/NHFG.

However, many areas have never been surveyed, or have only been surveyed for certain species.

NHB recommends surveys to determine what species/natural communities are present onsite.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-2592



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-2592

EPCODE:

ARAD04010*632*NH

New Hampshire Natural Heritage Bureau - Animal Record

Blanding's Turtle (*Emydoidea blandingii*)

Legal Status

Federal: Not listed
State: Listed Endangered

Conservation Status

Global: Apparently secure but with cause for concern
State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2011: Area 12906: 1 adult observed.

General Area: 2011: Area 12906: Marsh along railroad tracks.

General Comments: --

Management --

Comments:

Location

Survey Site Name: Meadowbrook
Managed By: Hospital Corporation of America

County: Rockingham

Town(s): Portsmouth

Size: 1.9 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2011: Area 12906: Marsh adjacent to 333 Borthwick Avenue, behind Portsmouth Regional Hospital.

Dates documented

First reported: 2011-05-07

Last reported: 2011-05-07

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

AERIAL PHOTO

Aerial



Legend

- State
- County
- City/Town

Map Scale

1: 24,000

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Map Generated: 1/10/2024

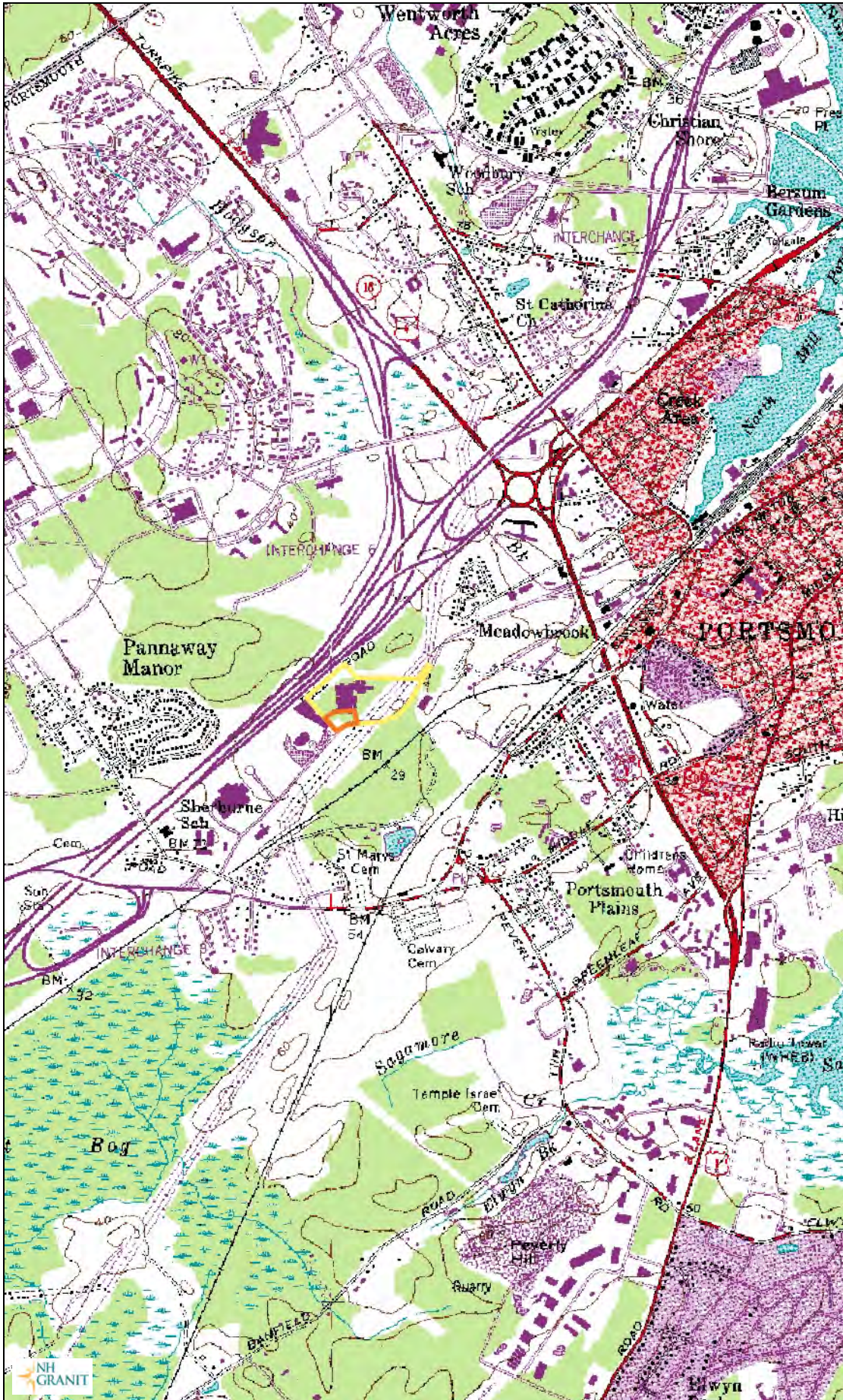


Notes



USGS TOPO MAP

USGS



Legend

- State
- County
- City/Town

Map Scale

1: 24,000

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Map Generated: 1/10/2024

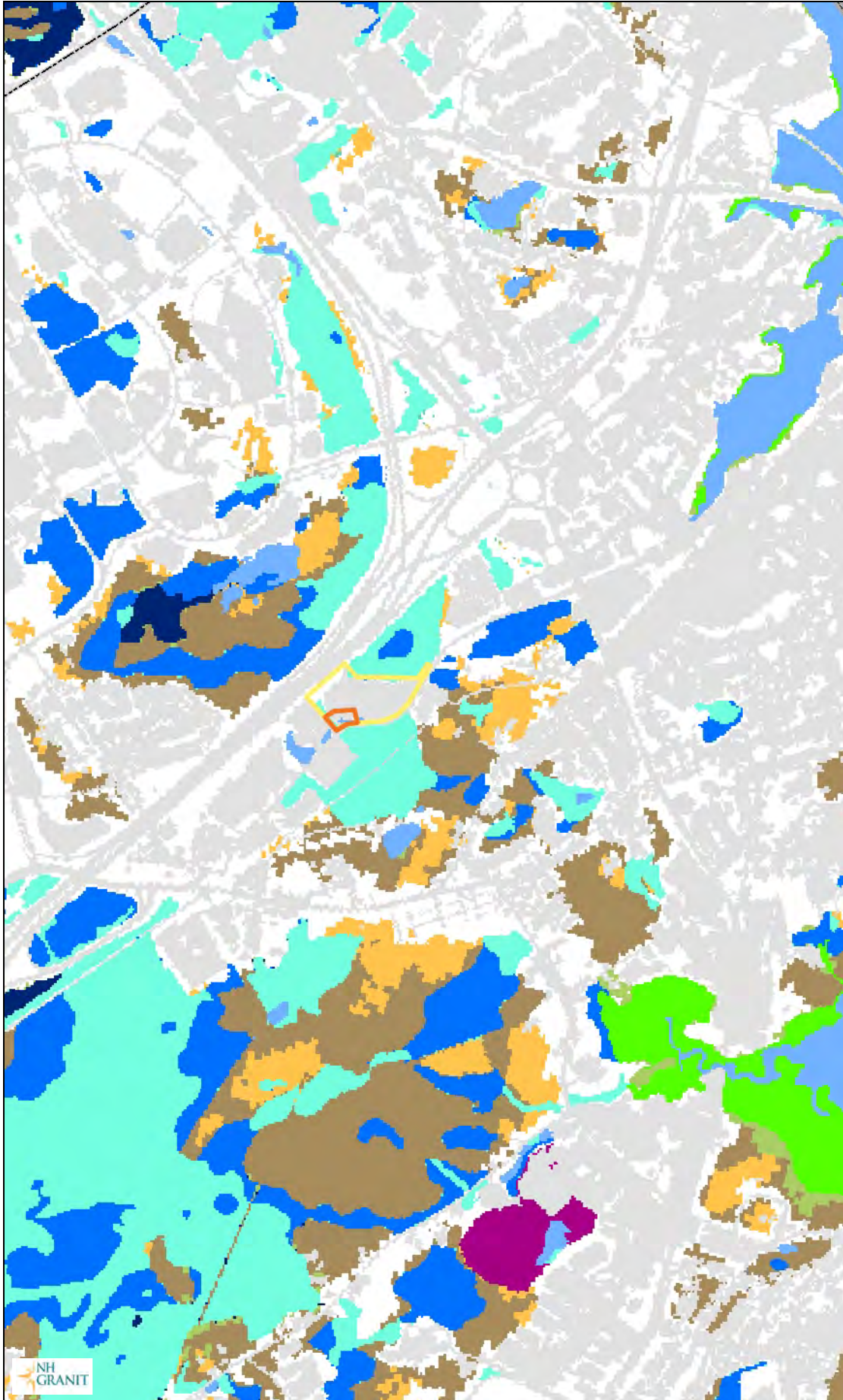


Notes



HABITAT COVER MAP

Habitat Cover



Legend

- State
- County
- City/Town
- WAP 2020: Wildlife Habitat I Cover
- Alpine
- Appalachian oak-pine
- Cliff and Talus slope
- Coastal island and Rocky coast
- Developed Impervious
- Developed or Barren land
- Dune
- Floodplain forest
- Grassland
- Hemlock-hardwood-pine
- High-elevation spruce-fir
- Lowland spruce-fir
- Northern hardwood-conifer
- Northern swamp
- Open water
- Peatland
- Pine barren
- Rocky ridge
- Salt marsh
- Sand/Gravel
- Temperate swamp
- Marsh and shrub wetland

Map Scale

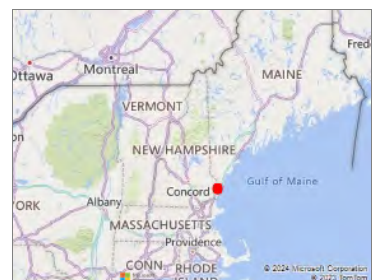
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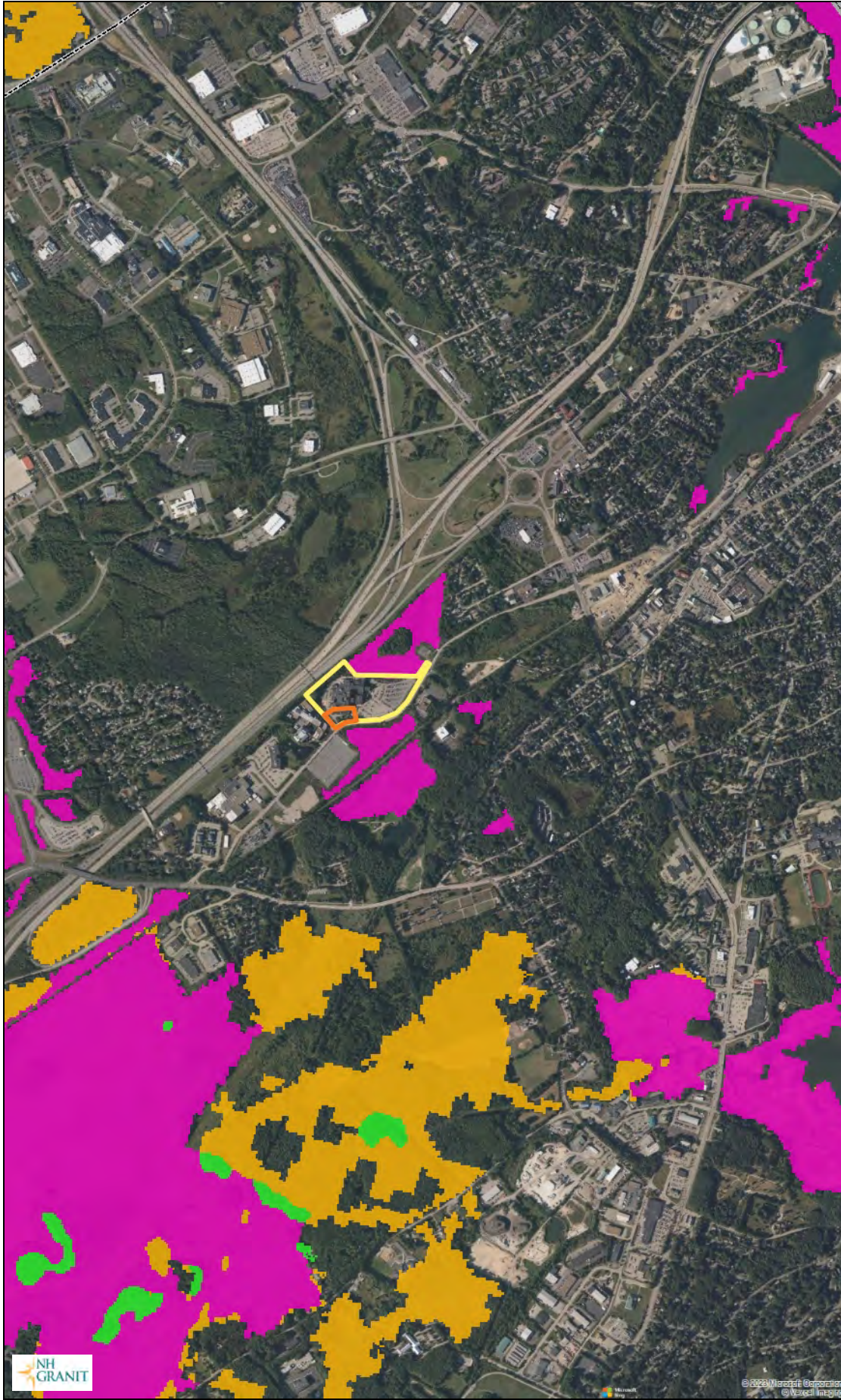
Map Generated: 1/10/2024

Notes



HIGHEST RANKED WILDLIFE HABITAT MAP

Highest Ranked Habitat



Legend

- State
- County
- City/Town
- WAP 2020: Highest Ranked Wildlife Habitat
 - 1 Highest Ranked Habitat in NH
 - 2 Highest Ranked Habitat in Region
 - 3 Supporting Landscape

Map Scale

1: 24,000

© NH GRANIT, www.granit.unh.edu

Map Generated: 1/10/2024



Notes



**WILDLIFE CORRIDORS MAP/SECONDARY WILDLIFE
CORRIDORS MAP**

Wildlife Corridors



Legend

- Wildlife Corridors
- State
- County
- City/Town

Map Scale

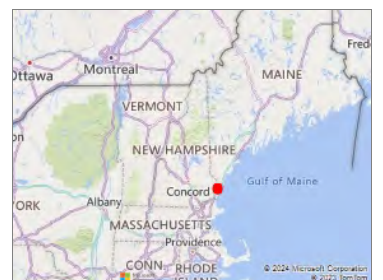
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Map Generated: 1/10/2024



Notes



Secondary Wildlife Corridors



Legend

- Wildlife Secondary Corridors
- State
- County
- City/Town

Map Scale

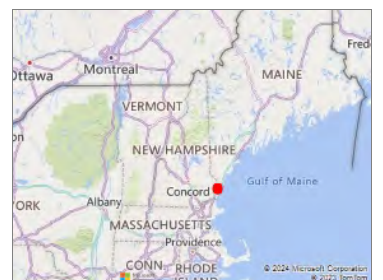
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Map Generated: 1/10/2024



Notes



PRIORITIZED HABITAT BLOCKS MAP

Prioritized Habitat Blocks



Legend

- Prioritized Habitat Blocks
- State
- County
- City/Town

Map Scale

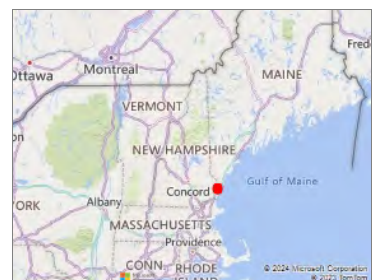
1: 24,000

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Map Generated: 1/10/2024



Notes



CONSERVATION PARCELS MAP

Conservation Land



Legend

- State
- County
- City/Town
- Conservation and Public Land

Map Scale

1: 24,000

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Map Generated: 1/10/2024

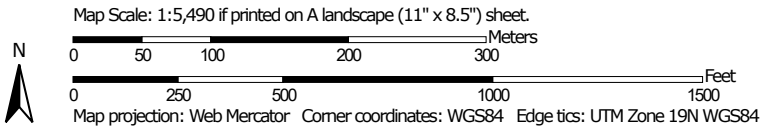
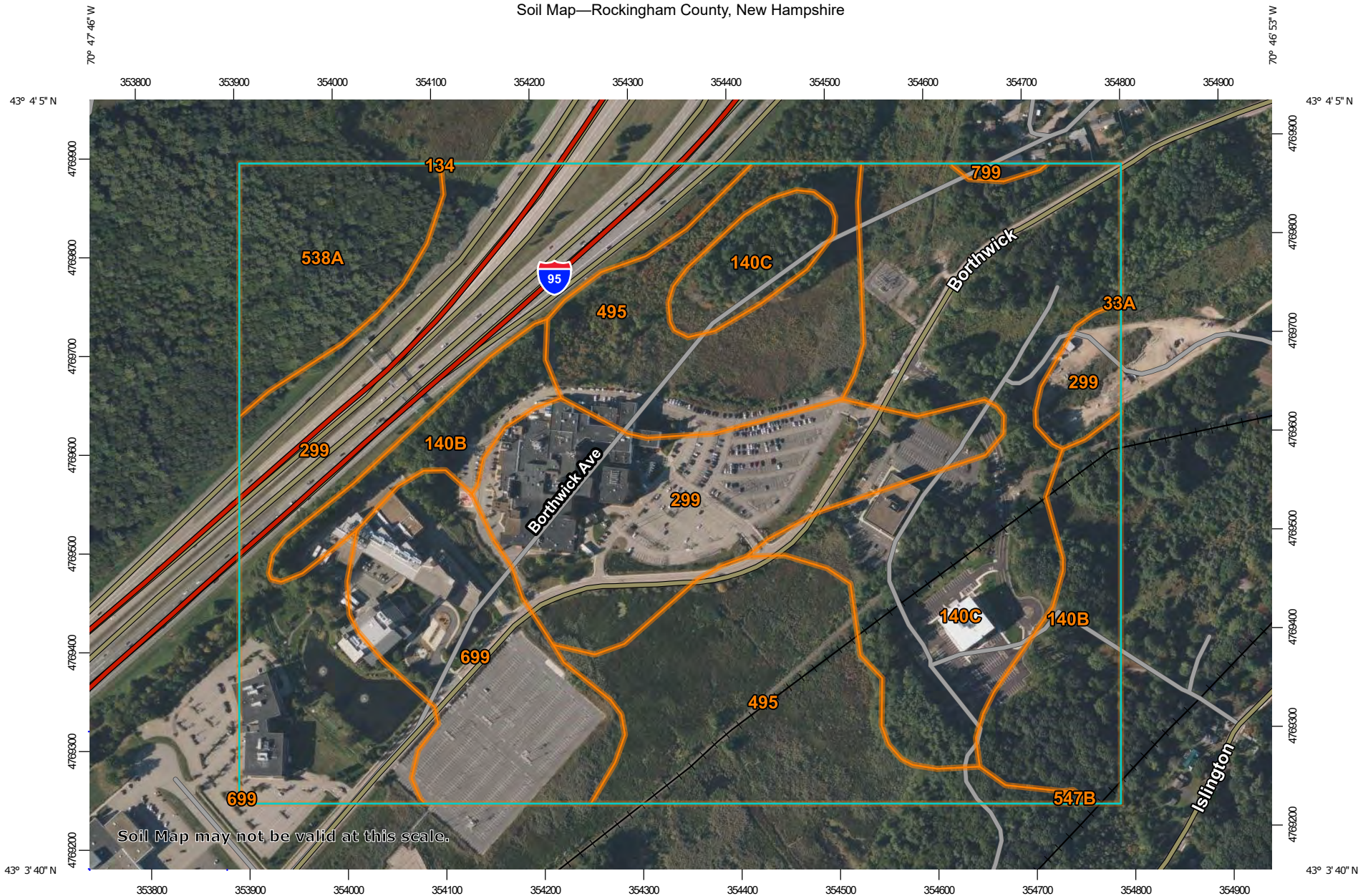


Notes



NRCS SOILS

Soil Map—Rockingham County, New Hampshire




MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Rockingham County, New Hampshire

Survey Area Data: Version 26, Aug 22, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

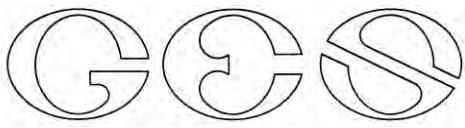
Date(s) aerial images were photographed: Jun 19, 2020—Sep 20, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
33A	Scitico silt loam, 0 to 5 percent slopes	0.0	0.0%
134	Maybid silt loam	0.0	0.0%
140B	Chatfield-Hollis-Canton complex, 0 to 8 percent slopes, rocky	13.1	9.1%
140C	Chatfield-Hollis-Canton complex, 8 to 15 percent slopes, rocky	31.8	22.1%
299	Udorthents, smoothed	47.0	32.6%
495	Natchaug mucky peat, 0 to 2 percent slopes	29.2	20.2%
538A	Squamscott fine sandy loam, 0 to 5 percent slopes	8.8	6.1%
547B	Walpole very fine sandy loam, 3 to 8 percent slopes, very stony	0.1	0.0%
699	Urban land	13.8	9.6%
799	Urban land-Canton complex, 3 to 15 percent slopes	0.3	0.2%
Totals for Area of Interest		144.1	100.0%

PHOTO LOG AND MAP



GOVE ENVIRONMENTAL SERVICES, INC.

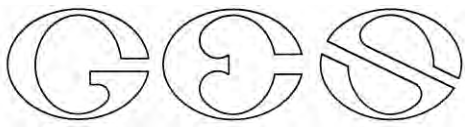
Photo Log
Portsmouth Regional Hospital
Taken: 5/17/23



Photo #1: Looking at the dewatering area for the project.



Photo #2: Another view of the dewatering system.



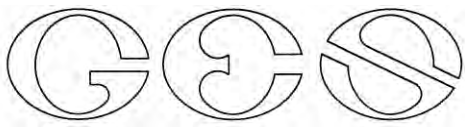
GOVE ENVIRONMENTAL SERVICES, INC.



Photo #3: Looking at the construction area from Borthwick Ave.



Photo #4: Looking at the active construction area.



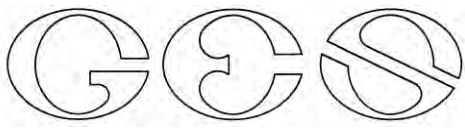
GOVE ENVIRONMENTAL SERVICES, INC.



Photo #5: Looking at the ongoing construction and erosion control.



Photo #6: Looking at the ongoing construction and erosion controls.



GOVE ENVIRONMENTAL SERVICES, INC.



Photo #7: Looking at the erosion control methods adjacent to the construction.



Photo #8: Another view of the erosion control measures.



GOVE ENVIRONMENTAL SERVICES, INC.



Photo #9: Looking at the ongoing construction and erosion controls.



GOVE ENVIRONMENTAL SERVICES, INC.

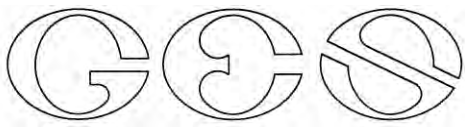
Updated Photo Log
Portsmouth Regional Hospital
Taken: 9/6/23



Photo #1: Looking at the dewatering system that doesn't appear to be in use anymore.



Photo #2: Looking at the continued construction at the location of the mobile unit.



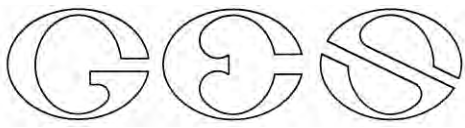
GOVE ENVIRONMENTAL SERVICES, INC.



Photo #3: Looking at the construction activities from Borthwick Ave.



Photo #4: Looking at the almost complete exterior structure.



GOVE ENVIRONMENTAL SERVICES, INC.



Photo #5: Looking at the almost finished exterior of the ongoing construction.



Photo #6: Looking at the ongoing construction and stable erosion control methods.

PROJECT PLANS

SITE DATA TABLE		
OWNER OF RECORD	HCA HEALTH SERVICES OF NH INC D/B/A PRH 32902	
SITE ADDRESS	333 BORTHWICK AVE PORTSMOUTH, NH 03801	
SITE AREA	± 20.87 AC	
DISTURBANCE LIMITS W/ THIS PROJECT	± 0.7 AC	
TAX MAP & LOT	TAX MAP 240, LOT 2-1	
ZONING	OR - OFFICE RESEARCH	
SETBACKS	REQUIRED	PROPOSED
FRONT YARD SETBACK	50'-0"	±40'
REAR YARD SETBACK	50'-0"	±157'
SIDE YARD SETBACK	75'-0"	±71" (EXISTING)
MIN. OPEN SPACE ON A LOT	30%	±39.0%
MAX BUILDING COVERAGE	30%	± 20.1%
BUILDING DATA		
	EXISTING	PROPOSED ADDITION
HOSPITAL BEDS	233	0
HOSPITAL/ MOB FLOOR PLATE	±173,916 SF	± 8,700 SF
HOSPITAL GROSS AREA	±427,495 SF	± 8,870 SF
MEDICAL OFFICE BUILDING GROSS AREA (ATTACHED TO HOSPITAL BUILDING)	±46,665 SF	0 SF
BUILDING HEIGHT	± 65'-4"	± 14'-8"

PAVEMENT LEGEND		
	DESCRIPTION	DET #/ SHEET
[Pattern]	SIDEWALK CONCRETE	1 / C7.00
[Pattern]	ASPHALT PAVEMENT	2 / C7.00
[Pattern]	CONCRETE PAVEMENT	3 / C7.00
[Pattern]	MOBILE IMAGING CONCRETE PAD	4 / C7.00
[Pattern]	SPECIALITY SIDEWALK PAVEMENT	NOTE THIS SHEET

PARKING SUMMARY				
	EXISTING	DEMOLISHED	PROPOSED	NET RESULT
ONSITE STANDARD SPACES	754	11	2	745
ONSITE ACCESSIBLE (INCLUDING VAN ACCESSIBLE)	29	4	6	31
OFFSITE STANDARD SPACES*	0	0	490	490
OFFSITE ACCESSIBLE (INCLUDING VAN ACCESSIBLE)*	0	0	11	11
TOTAL				1277

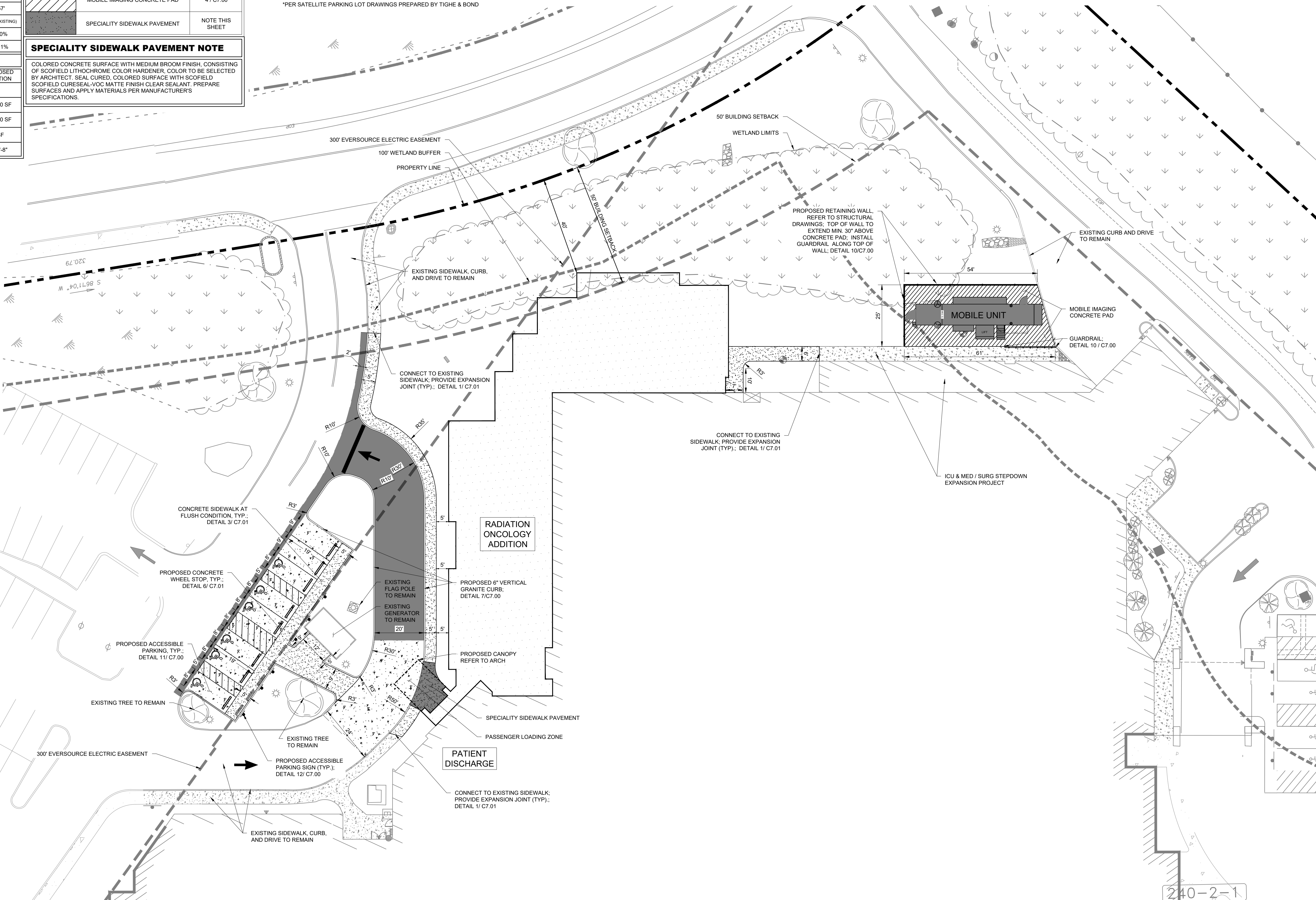
*PER SATELLITE PARKING LOT DRAWINGS PREPARED BY TIGHE & BOND

SPECIALITY SIDEWALK PAVEMENT NOTE

COLORED CONCRETE SURFACE WITH MEDIUM BROOM FINISH, CONSISTING OF SCOFIELD LITHOCHROME COLOR HARDENER, COLOR TO BE SELECTED BY ARCHITECT. SEAL CURED, COLORED SURFACE WITH SCOFIELD SCOFIELD CURESEAL-VOO MATTE FINISH CLEAR SEALANT. PREPARE SURFACES AND APPLY MATERIALS PER MANUFACTURER'S SPECIFICATIONS.

SITE LAYOUT NOTES

- INSTALL CONCRETE JOINTS WHERE SHOWN ON PLANS AND DETAILS. ALIGN ON WALLS, BUILDINGS, RADII, ETC. EVENLY SPACE BETWEEN ELEMENTS AS SHOWN. PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND ALL VERTICAL ELEMENTS (WALLS, CURBS, ETC.).
- ALL RADII ARE 3' UNLESS OTHERWISE NOTED.
- LAYOUT ALL CURVES SMOOTHLY WITH NO ABRUPT CHANGES AT TANGENT POINTS.
- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- LAYOUT ALL ELEMENTS IN FIELD AND CONTACT OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION.
- CONTRACTOR TO TAKE ALL PRECAUTIONS TO FIND AND AVOID SITE UTILITIES. ALL UTILITIES ARE NOT SHOWN ON DRAWING. VERIFY LOCATIONS AND CONSIDER SUCH WHEN ESTIMATING.
- ALL LANDSCAPE ISLANDS SHALL BE MOUNDED WITH TOPSOIL 4" ABOVE THE CURB LINE TO PROMOTE POSITIVE DRAINAGE.
- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL PAVEMENT MARKINGS ON-SITE ARE PAINT, UNLESS OTHERWISE NOTED.
- SAW CUT LINES SHALL BE DONE IN A STRAIGHT NEAT LINE A MINIMUM OF 18" FROM THE EXISTING EDGE OF PAVEMENT.
- IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE AND FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND CITY OF PORTSMOUTH SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE.
- PRIOR TO THE START OF THE CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE CONTACT PORTSMOUTH STORMWATER MGMT. AT (603) 427-1530 FOR A POTENTIAL SOIL EROSION AND SEDIMENT CONTROL PRE-INSPECTION MEETING.
- THE CONTRACTOR MUST PROVIDE A DEWATERING PLAN, IF APPLICABLE, TO CITY OF PORTSMOUTH BUILDING AND SITE DEVELOPMENT DIVISION AT (603) 810-7243 FOR REVIEW PRIOR TO THE EROSION CONTROL MEASURES PRE-INSPECTION MEETING.
- ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
- RECORDING NOTE:
 - THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
 - ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.
- TOPOGRAPHY AND EXISTING CONDITIONS FROM FIELD SURVEY PERFORMED BY JAMES VERRA & ASSOCIATES, INC. ON 10/2019.
- FLOOD HAZARD ZONE, ZONE X (OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN) PER F.I.R.M. #3301SC0260F, DATED 01/29/2021.
- HORIZONTAL DATUM IS BASED ON NAD 1983.
- VERTICAL DATUM BASED ON NAVD88.
- JURISDICTIONAL WETLANDS DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING OCTOBER 2019 IN ACCORDANCE WITH:
 - 2012 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT ERDC/EL TR-12-
 - FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, APRIL 2019.
 - US ARMY CORPS OF ENGINEERS NATIONAL WETLAND PLAN US, 2018.
 - CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE U.S., USFW MANUAL FWS/OBS-79/31 (1979).
- UNDERGROUND ELECTRIC, WATER, GAS, & SEWER LOCATIONS BASED ON SURFACE MARKINGS BY GPRS, INC ON 10/2019.



Kimley»Horn

404 WYMAN STREET, SUITE 385 WALTHAM, MA 02451
MAINT/781.328.0676 | WWW.KIMLEY-HORN.COM
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PORTSMOUTH REGIONAL HOSPITAL
RADIATION ONCOLOGY ADDITION
PORTSMOUTH, NEW HAMPSHIRE



DATE	BY

DESIGNED BY: ZCN	DATE: 06/28/2022
DRAWN BY: ZCN	KIMLEY-HORN PROJECT NO. 118252004
CHECKED BY: MEH	

SITE LAYOUT - ENLARGEMENT

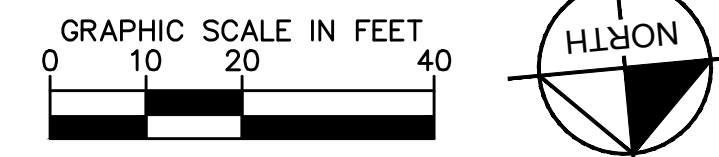
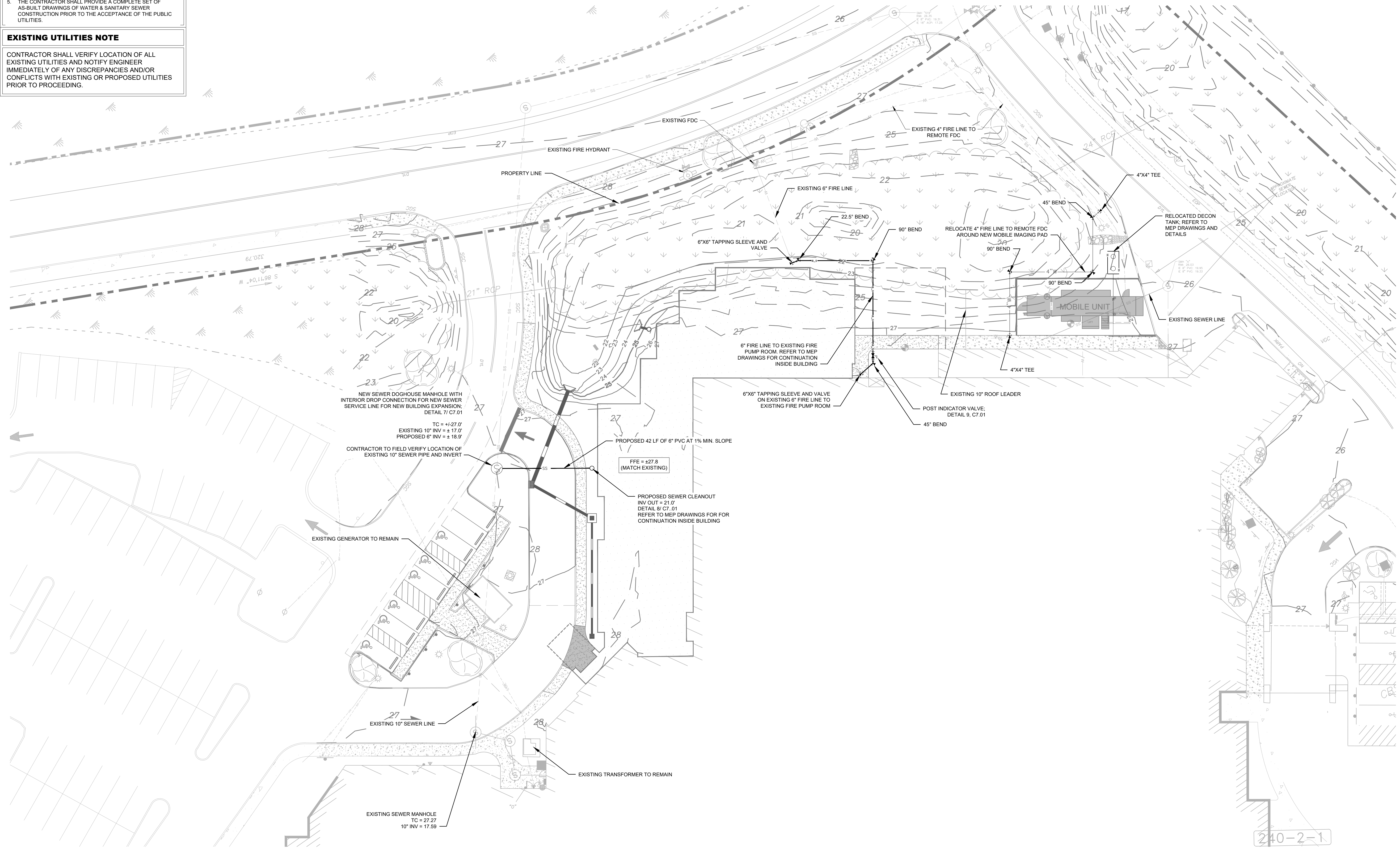
C4.01

UTILITY NOTES

1. CONTRACTOR RESPONSIBLE FOR VERIFYING EXISTING ELEVATIONS COMPARED TO THOSE SHOWN ON PLAN PRIOR TO GRADING. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES ARE FOUND.
2. ALL WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH CITY OF PORTSMOUTH WATER/SEWER DEPARTMENT STANDARD SPECIFICATIONS. MAINTAIN MINIMUM 10 FEET HORIZONTAL SEPARATION BETWEEN WATER & SANITARY SEWER OR 18" VERTICAL SEPARATION AT CROSSING LOCATIONS.
3. REFER TO CITY OF PORTSMOUTH WATER/SEWER DEPARTMENT STANDARD SPECIFICATIONS FOR PIPE BEDDING REQUIREMENTS.
4. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS OF WATER & SANITARY SEWER CONSTRUCTION PRIOR TO THE ACCEPTANCE OF THE PUBLIC UTILITIES.

EXISTING UTILITIES NOTE

CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDINGS.



HCA HEALTHCARE
HCA DESIGN MANAGER
 MICAL MALIK PH: 615-344-6598
HCA CONSTRUCTION MANAGER
 RYAN MAGUIRE PH: 615-344-2487

M.P.E. & T CONSULTANT
 I.C. THOMASSON ASSOCIATES, INC.
 2550 KRAFT DRIVE, SUITE 500
 NASHVILLE, TN 37204
 MANAGER: JACK MCCOY

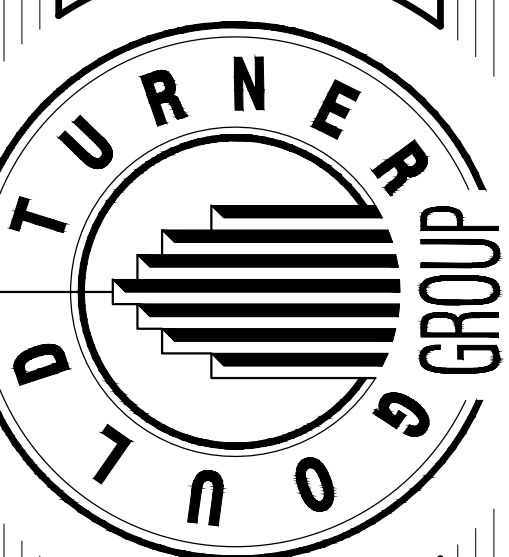
STRUCTURAL CONSULTANT
 STANLEY D. LINDSEY & ASSOC., LTD.
 750 OLD HICKORY BLVD., BLDG 1, STE 175
 BRENTWOOD, TN 37027
 MANAGER: MARK HILGER

CIVIL CONSULTANT
 KIMLEY-HORN & ASSOCIATES, INC.
 401 WYMAN STREET, SUITE 385
 WALTHAM, MA 02451
 MANAGER: CHRIS AREAS

**PORTSMOUTH REGIONAL HOSPITAL
 RADIATION ONCOLOGY ADDITION**
 333 BORTHWICK AVE. PORTSMOUTH, NH
 HCA# 3700200021
 GTF# 3746395

VENDOR INFORMATION

GOULD TURNER GROUP, P.C.
ARCHITECTURE
 615 3RD AVENUE SOUTH, SUITE 600
 NASHVILLE, TENNESSEE 37210
 © Copyright by Gould Turner Group - 2022



REVISIONS:
 CONSTRUCTION DOCUMENTS - PRICING SET
 DATE: 04/25/2022



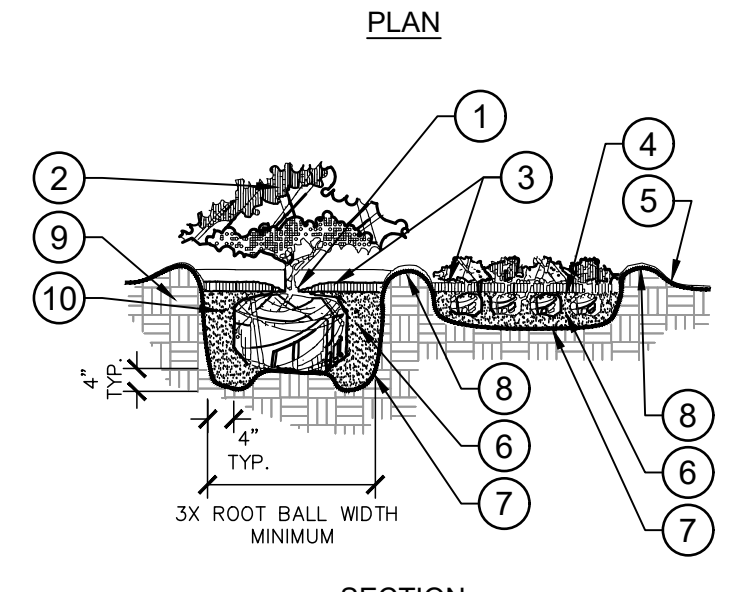
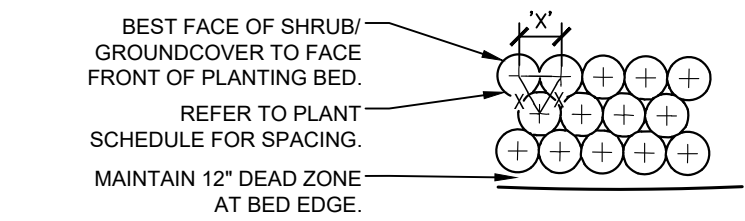
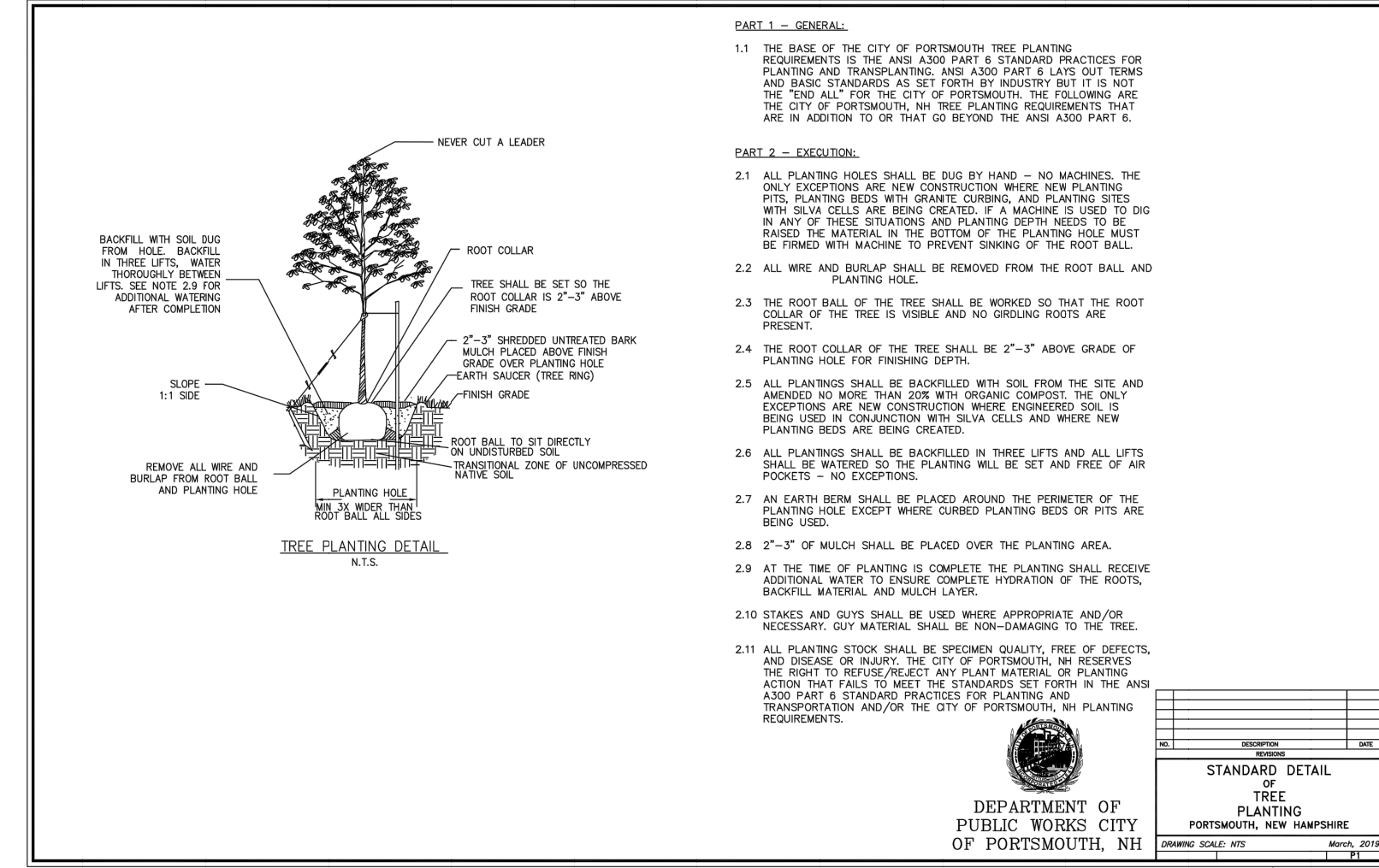
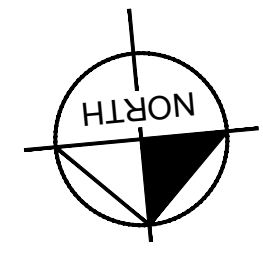
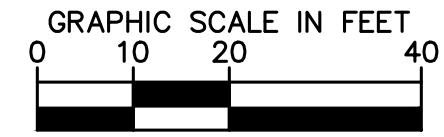
RESPONSIBILITY: ZCN
 CHECKED BY: ZCN
 DATE: 04/25/22

PLANT_SCHEDULE

CANOPY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	CALIPER	HEIGHT
	AF	6	CORYLUS AMERICANA / AUTUMN BLAZE MAPLE	B&B	3" MIN.	14'-16' HT.

SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING	HEIGHT
	AM	11	ARONIA MELANOCARPA / BLACK CHOKEBERRY	5 GAL	9-FT O.C.	3-FT MIN.
	PV	50	PANICUM VIRGATUM / SWITCHGRASS	1 GAL	2-FT O.C.	18" MIN.

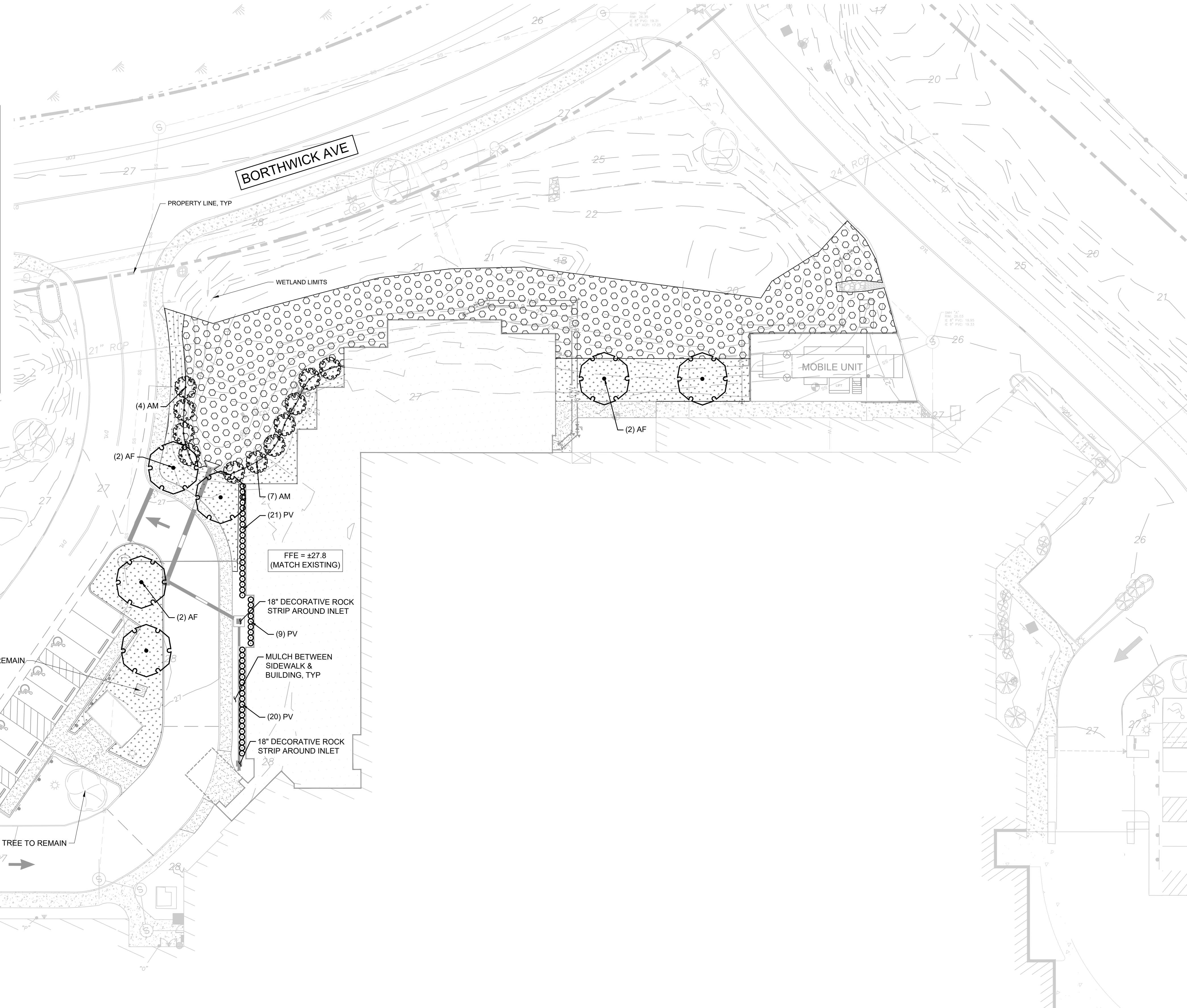
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME
	SOD	4,030 SF	SOD
	VARIABLES	7,600 SF	CONSERVATION SEED MIX / NEW ENGLAND WETMIX (WETLAND SEED MIX)



- 1 TOP OF SHRUB ROOTBALLS TO BE PLANTED 1'-2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL
- 2 PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT.
- 3 3" MULCH LAYER AS SPECIFIED.
- 4 EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
- 5 FINISHED GRADE (SEE GRADING PLAN).
- 6 PREPARED PLANTING SOIL AS SPECIFIED (SEE LANDSCAPE NOTES) NOTE: WHEN GROUND-COVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
- 7 SCARIFY OF PLANTING PIT SIDES AND BOTTOM.
- 8 4" HIGH BERM FIRMLY COMPACTED.
- 9 UNDISTURBED NATIVE SOIL.
- 10 FERTILIZER TABLETS (MAX 3" DEEP)

- NOTES:**
- A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
 - B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS / HEIGHT.
 - C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.

1 SHRUB/GROUNDCOVER PLANTING
SECTION / PLAN
NTS



Kimley»Horn
404 WYMAN STREET, SUITE 385 WALTHAM, MA 02451
MAIN/781.328.0676 | WWW.KIMLEY-HORN.COM
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

PORTSMOUTH REGIONAL HOSPITAL
RADIATION ONCOLOGY ADDITION
PORTSMOUTH, NEW HAMPSHIRE



NO.	DATE	BY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

DESIGNED BY: ZCN
DRAWN BY: ZCN
CHECKED BY: MEH
DATE: 06/28/2022
KIMLEY-HORN PROJECT NO. 118252004

LANDSCAPE PLAN

L1.00

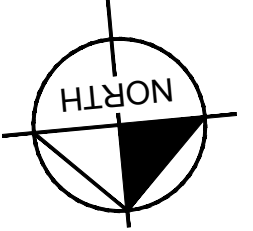
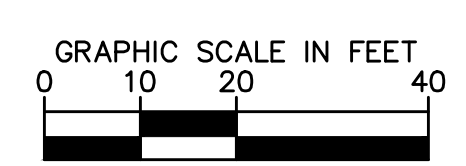
RESPONSIBILITY: ZCN
 CHECKED BY: SKA
 DATE: 04/25/2022

PORTSMOUTH REGIONAL HOSPITAL
 RADIATION ONCOLOGY ADDITION
 333 BORTHWICK AVE. PORTSMOUTH, NH
 HCA# 3790200021
 GTF# 3766305

GRADING PLAN LEGEND	
28.60	SPOT ELEVATION
HP	HIGH POINT
TC	TOP OF CURB
TR	GRADE AT TOPSIDE OF WALL
BT	GRADE AT BOTTOMSIDE OF WALL
ME	MEASUREMENT
FFE	FINISH FLOOR ELEVATION
27	EXISTING CONTOUR
27	PROPOSED CONTOUR

WETLAND IMPACT LEGEND		
Green	TEMPORARY WETLAND DISTURBANCE	4,400 SF
Red	PERMANENT WETLAND DISTURBANCE	200 SF
Blue	PROPOSED WETLANDS	1,150 SF

WETLAND SUMMARY	
EXISTING WETLAND AREA	± 10,300 SF
PERMANENT WETLAND DISTURBANCE	± 200 SF
PROPOSED WETLAND ADDED	± 1,150 SF
NEW WETLAND AREA	± 11,250 SF



WETLAND DISTURBANCE
EX. A



HCA
 HEALTHCARE
 DESIGN MANAGER
 MICHAEL WALKER
 PH: 603-344-6598
 HCA CONSTRUCTION MANAGER
 RYAN MAGUIRE
 PH: 603-344-2487

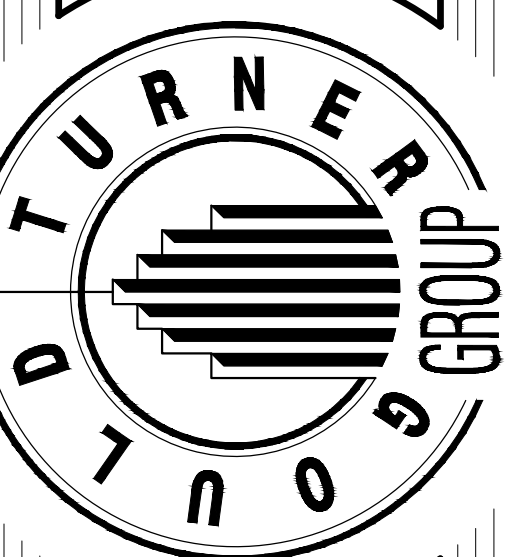
M.P.E. & T. CONSULTANT
 I.C. THOMASSON ASSOCIATES, INC.
 2950 ARABEY DRIVE, SUITE 500
 NASHVILLE, TN 37204
 MANAGER: JACK MCCOY

STRUCTURAL CONSULTANT
 STANLEY D. LINDSEY & ASSOC., LTD.
 750 OLD HICKORY BLVD., BLDG 11, STE 175
 BRENTWOOD, TN 37027
 MANAGER: MARK HILGER

CIVIL CONSULTANT
 KIMLEY-HORN & ASSOCIATES, INC.
 401 WYMAN STREET, SUITE 305
 WALTHAM, MA 02451
 MANAGER: CHRIS AREES

VENDOR INFORMATION

WETLAND DISTURBANCE
EX. A



PORTSMOUTH REGIONAL HOSPITAL
RADIATION ONCOLOGY ADDITION
 333 BORTHWICK AVE. PORTSMOUTH, NH
 HCA# 3790200021
 GTF# 3766305

GOULD TURNER GROUP, P.C.
 ARCHITECTURE
 615 3RD AVENUE SOUTH, SUITE 600
 NASHVILLE, TENNESSEE 37210
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REVISIONS:
 CONSTRUCTION - PRICING
 DOCUMENTS - SET

DATE:
 04/25/2022



Architects - Planners - Interiors

Appendix I
New Hampshire Natural Heritage Bureau Inquiry



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

To: Brenden Walden, Gove Environmental Services, Inc.
8 Continental Drive Bldg 2 Unit H
Exeter, NH 03833
info@gesinc.biz

From: NHB Review
NH Natural Heritage Bureau
Main Contact: Ashley Litwinenko - nhbreview@dncr.nh.gov

cc: NHFG Review

Date: 09/05/2023 (valid until 09/05/2024)

Re: DataCheck Review by NH Natural Heritage Bureau and NH Fish & Game

Permits: NHDES - Wetland Standard Dredge & Fill - Minor, USACE - General Permit

NHB ID: NHB23-2592

Town: Portsmouth
Location: 333 Borthwick Ave

Project Description: The applicant is applying for an after the fact dredge and fill application for impacts to a manmade detention basin associated with the expansion of the hospital's new oncology wing. The impacts involve 200sf of direct permanent impact, 4,400 sf of temporary disturbance, with an expansion of the detention basin of approximately 1,150 SF. No additional wetland impacts are proposed in association with the hospital expansion project.

Next Steps for Applicant:

NHB's database has been searched for records of rare species and exemplary natural communities. Please carefully read the comments and consultation requirements below.

NHB Comments: No comments at this time.

NHFG Comments: Please refer to NHFG consultation requirements below. Please indicate how much of project is still in progress.

NHB Consultation

If this NHB DataCheck letter includes records of rare plants and/or natural communities/systems, please contact NHB and provide any requested supplementary materials by emailing nhbreview@dncr.nh.gov.

If this NHB DataCheck letter DOES NOT include any records of rare plants and/or natural communities/systems, no further consultation with NHB is required.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NH Fish and Game Department Consultation

If this NHB DataCheck letter DOES NOT include ANY wildlife species records, then, based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.

If this NHB DataCheck letter includes a record for a threatened (T) or endangered (E) wildlife species, consultation with the New Hampshire Fish and Game Department under Fis 1004 may be required. To review the Fis 1000 rules (effective February 3, 2022), please go to <https://www.wildlife.nh.gov/wildlife-and-habitat/nongame-and-endangered-species/environmental-review>. All requests for consultation and submittals should be sent via email to NHFGreview@wildlife.nh.gov or can be sent by mail, and **must include the NHB DataCheck results letter number and "Fis 1004 consultation request" in the subject line.**

If the NHB DataCheck response letter does not include a threatened or endangered wildlife species but includes other wildlife species (e.g., Species of Special Concern), consultation under Fis 1004 is not required; however, some species are protected under other state laws or rules, so coordination with NH Fish & Game is highly recommended or may be required for certain permits. While some permitting processes are exempt from required consultation under Fis 1004 (e.g., *statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule*), coordination with NH Fish & Game may still be required under the rules governing those specific permitting processes, and it is recommended you contact the applicable permitting agency. For projects not requiring consultation under Fis 1004, but where additional coordination with NH Fish and Game is requested, please email NHFGreview@wildlife.nh.gov, and include the NHB DataCheck results letter number and "review request" in the email subject line.

Contact NH Fish & Game at (603) 271-0467 with questions.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB Database Records:

The following record(s) have been documented in the vicinity of the proposed project. Please see the map and detailed information about the record(s) on the following pages.

Vertebrate species	State ¹	Federal	Notes
Blanding's Turtle (<i>Emydoidea blandingii</i>)	E	--	Contact the NH Fish & Game Dept (see below).

¹Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list.

An asterisk (*) indicates that the most recent report for that occurrence was 20 or more years ago.

For all animal reviews, refer to 'IMPORTANT: NHFG Consultation' section above.

Disclaimer: NHB's database can only tell you of known occurrences that have been reported to NHFG/NHB. Known occurrences are based on information gathered by qualified biologists or members of the public, reported to our offices, and verified by NHB/NHFG.

However, many areas have never been surveyed, or have only been surveyed for certain species.

NHB recommends surveys to determine what species/natural communities are present onsite.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-2592



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-2592

EOCODE:

ARAD04010*632*NH

New Hampshire Natural Heritage Bureau - Animal Record

Blanding's Turtle (*Emydoidea blandingii*)

Legal Status

Federal: Not listed
State: Listed Endangered

Conservation Status

Global: Apparently secure but with cause for concern
State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2011: Area 12906: 1 adult observed.

General Area: 2011: Area 12906: Marsh along railroad tracks.

General Comments: --

Management: --

Comments:

Location

Survey Site Name: Meadowbrook
Managed By: Hospital Corporation of America

County: Rockingham

Town(s): Portsmouth

Size: 1.9 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2011: Area 12906: Marsh adjacent to 333 Borthwick Avenue, behind Portsmouth Regional Hospital.

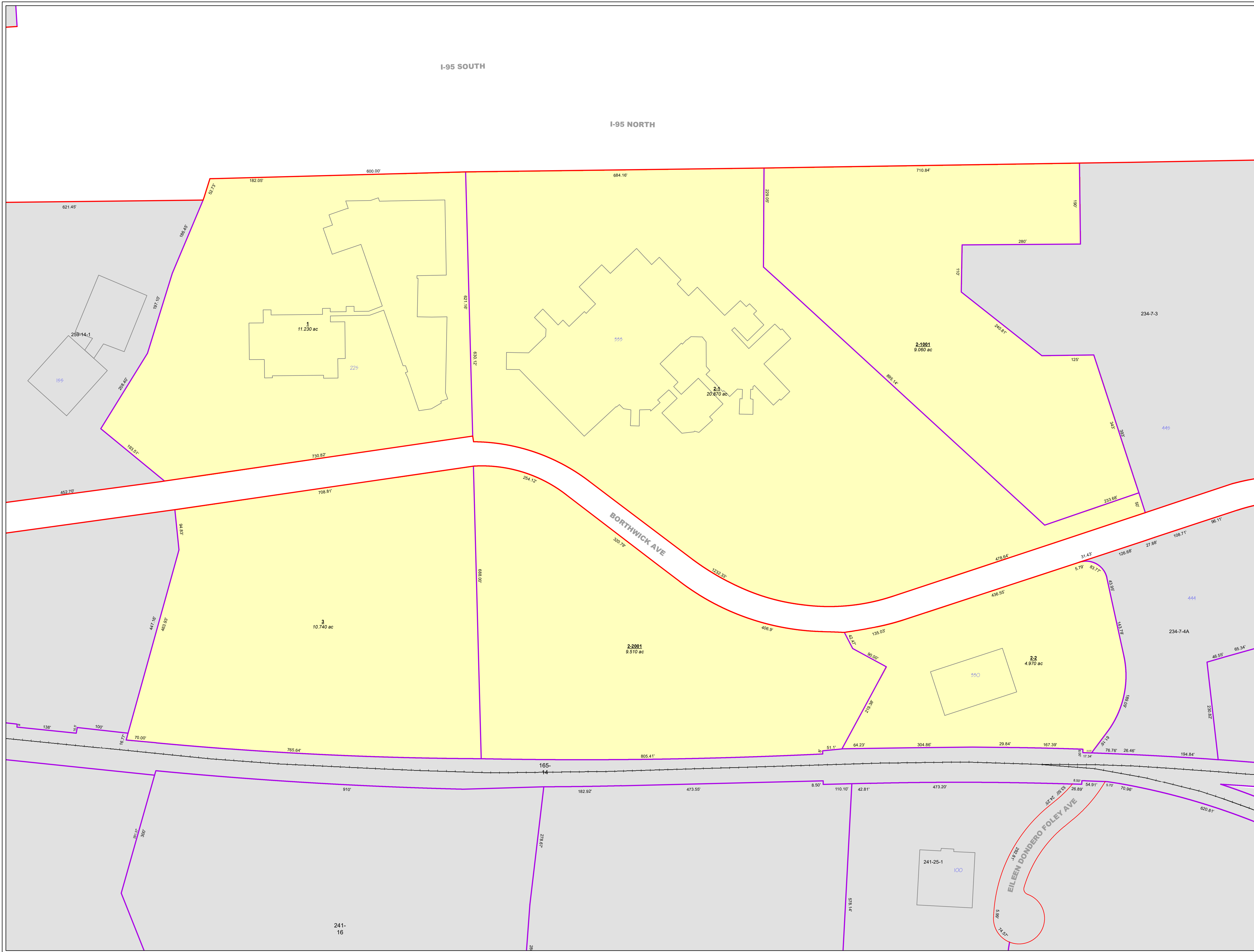
Dates documented

First reported: 2011-05-07 Last reported: 2011-05-07

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

Appendix II
New Hampshire Department of Historic Resources Inquiry

Appendix III
Tax Map, List of Abutters, Abutter Notification Letter, and Certified Mail Receipts

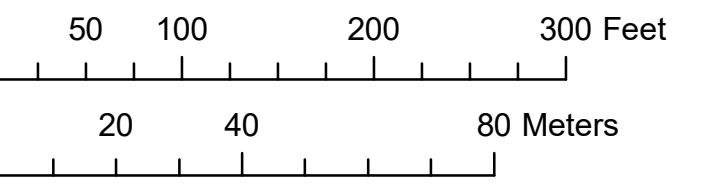


Partial Legend
 See the cover sheet for the complete legend.

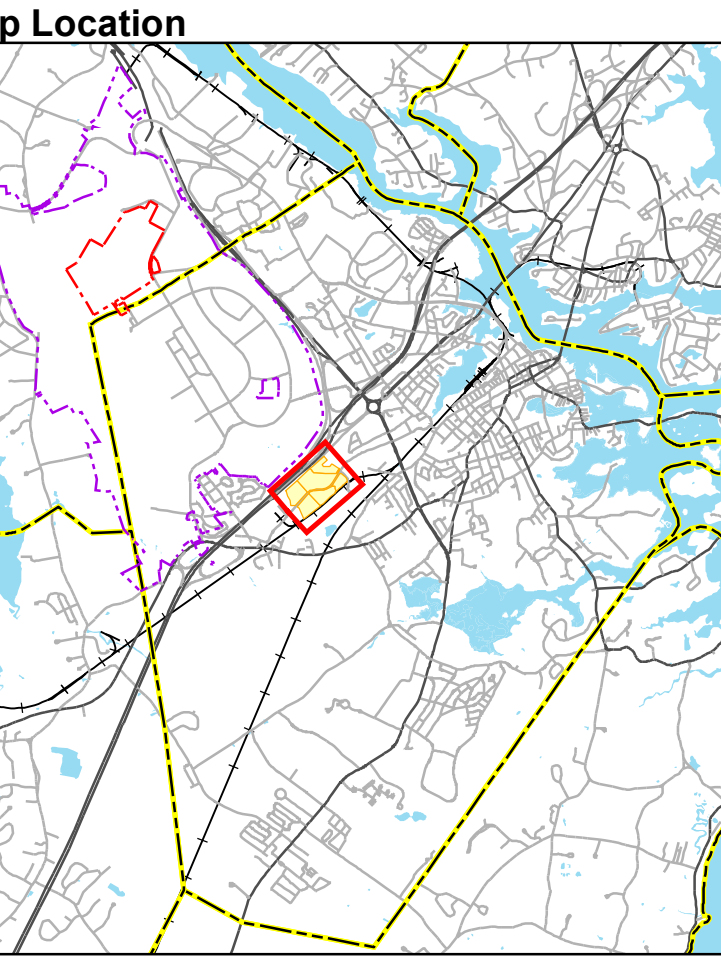
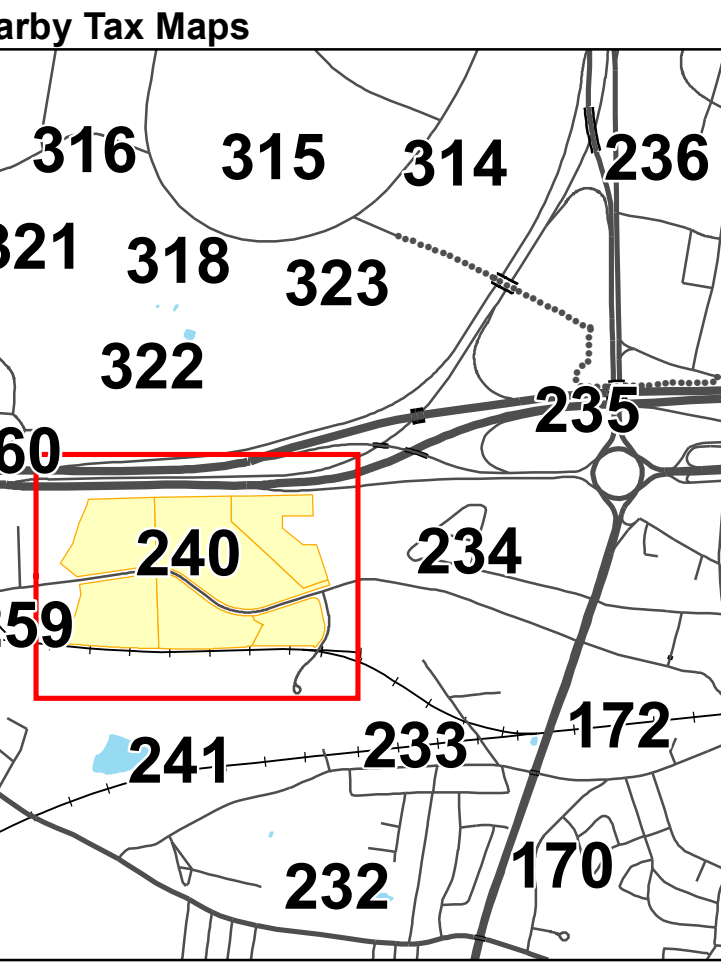
7-5A Lot or lot-unit number
 2.56 ac Parcel area in acres (ac) or square feet (sf)
 25 Address number
 233-137 Parcel number from a neighboring map
 68' Parcel line dimension
SIMS AVE Street name

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
 2022
Tax Map 240

Subject Property

Tax Map 240 Lot 2-1
HCA Health Services of New Hampshire
PO Box 80610,
Indianapolis, IN 46280

Abutters:

Tax Map 240 Lot 1
Liberty Mutual Insurance Company
Attn: Joanne Bragg
175 Berkeley St
Boston, MA 02116

Tax Map 240 Lot 2-1001
City of Portsmouth DPW
PO Box 628
Portsmouth, NH 03802

Tax Map 234 Lot 7-3
City of Portsmouth
1 Junkins Ave
Portsmouth, NH 03802

January 4, 2024

«Name»
«Street»
«TownStateZip»

Re: Portsmouth Regional Hospital Oncology Expansion
Subject: NH Department of Environmental Services Wetlands Bureau
Minor Impact Dredge & Fill Application

Dear Abutter:

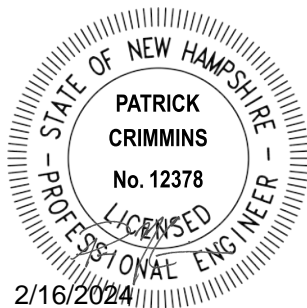
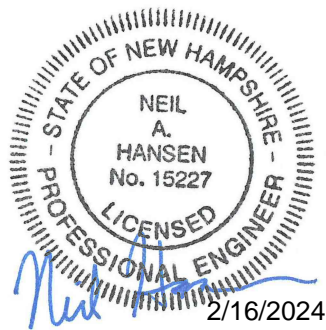
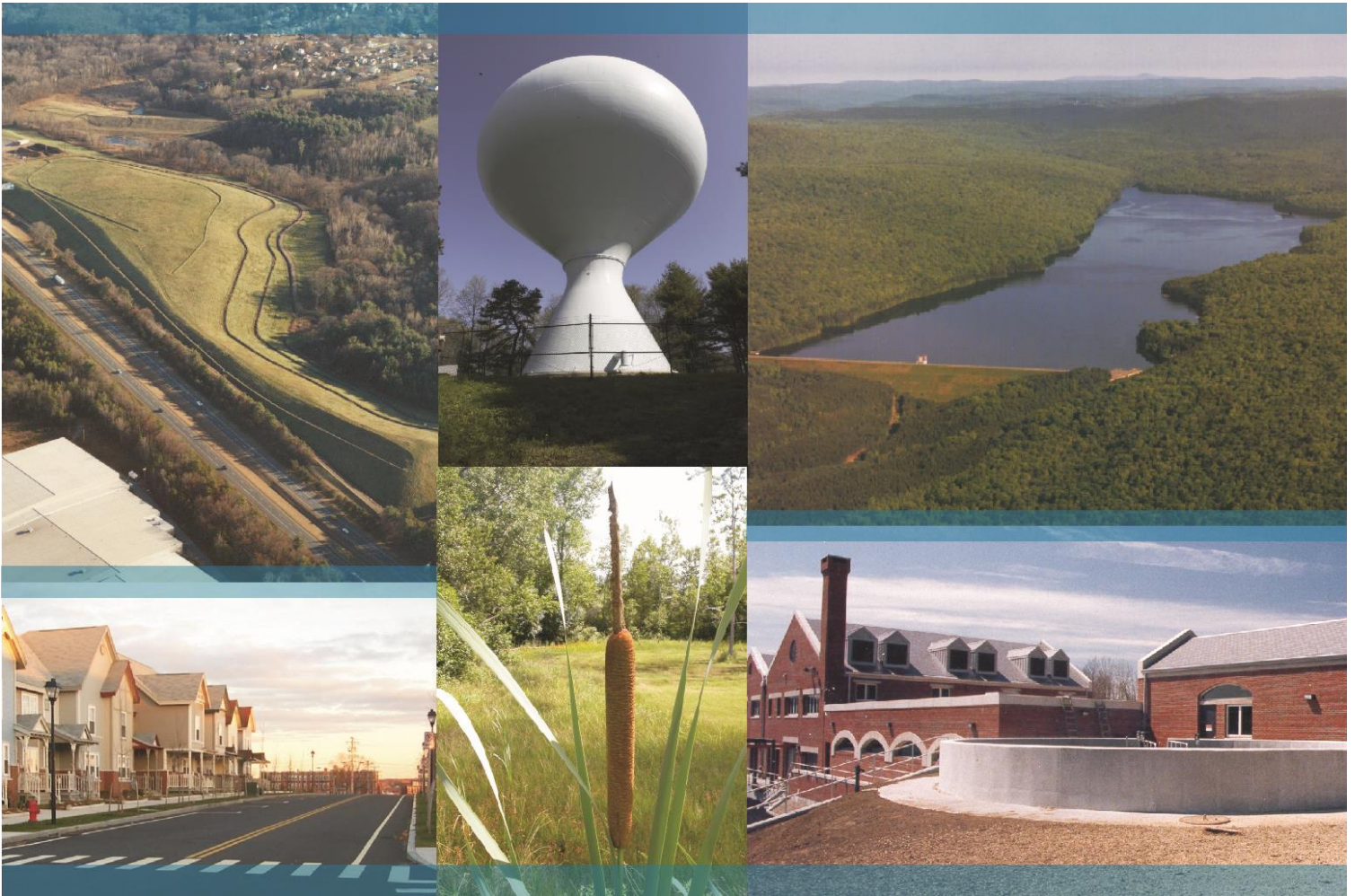
The purpose of this letter is to inform you HCA Health Services of New Hampshire of Indianapolis, IN is applying to the NH Department of Environmental Services Wetlands Bureau, which requires this notice for an After the Fact Dredge and Fill permit for impacts areas under its jurisdiction. The applicant's project has impacted 200 SF of direct wetland impact to a man-made detention basin associated with the expansion of the hospital's new oncology wing. The project is proposed on Tax map 240 Lot 2-1 on 333 Borthwick Ave, Portsmouth, NH.

A copy of the application, including plans, will be made available for your review at the town offices and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive in Concord.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

Sincerely,

Brenden Walden
GES, Inc.



Tighe & Bond

Proposed Mixed Use Development
53 Green Street
Portsmouth, NH

Standard Dredge and Fill Wetlands Permit Application

Prepared For:

CPI Management, LLC

February 16, 2024

C0960-011
February 16, 2024

NHDES Wetlands Bureau
Attn: Kristin Duclos
29 Hazen Dr, PO Box 95
Concord, NH 03302-0095

Re: **Standard Dredge and Fill Wetland Impact Application
Proposed Mixed Use Development
53 Green Street, Portsmouth, NH**

Dear Ms. Duclos:

Tighe & Bond is pleased to submit this permit application on behalf of Stone Creek Realty, LLC (owner), and CPI Management, LLC (applicant) for impacts associated with the redevelopment of a commercial parcel in the previously developed upland buffer at 53 Green Street in Portsmouth.

Project Description

The proposed project is located at 53 Green Street on property identified as Map 119 Lot 2 on the City of Portsmouth Tax Maps. The existing 1.66-acre parcel is bound by Green Street to south, the AC Hotel to the west, North Mill Pond to the north and the railroad to the east.

The project will include demolition of the existing multi-tenant commercial building and associated parking area. This will be replaced with a five (5) story mixed use building with approximately 45-residential units, commercial space, parking garage, and other associated site improvements. The project will include permanent buffer impacts, though will result in a net reduction of impervious surface within the Tidal Buffer Zone. The project will also include the construction of a portion of the City of Portsmouth's North Mill Pond Greenway project. This is a 10 ft wide porous asphalt pathway within the 50 ft buffer of North Mill Pond for public recreational use.

Jurisdictional Wetlands

The parcel was reviewed for jurisdictional wetlands by Tighe & Bond environmental scientist Leonard Lord, PhD, NHCWS #14, in October & December 2019. There was no snow on the ground at the time of the investigation. Criteria for wetland determinations were based on those outlined in the *Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1* (January 1987), and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (January 2012). The Highest Observable Tide Line (HOTL) was delineated based on the definition found in the NH Department of Environmental Services (NHDES) Wetland Rules, Env-Wt 101.49/Env-Wt 602.23. Wetlands were classified based on the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979). The only wetlands located on the parcel are the tidal wetlands (HOTL), which were delineated with sequentially-numbered flagging labelled 1A-1 to 1A-19.

Important wetland functions and values were also assessed and summarized in the vicinity of the parcel. The assessment was based on the *Maine Citizens Guide to Evaluating, Restoring, and Managing Tidal Marshes* (Bryan et al., 1997) and *The Highway Methodology Workbook*



Supplement—Wetland Functions and Values: A Descriptive Approach, NAEEP-360-1-30a, US Army Corps of Engineers, New England Division, (September 1999).

Wetlands on this site were classified as estuarine intertidal rocky shore, rubble, and regularly flooded (E2RS2N). The wetland edge slopes sharply and is predominantly covered with angular stones and cobbles. Sparse halophytic vegetation along the upper portion of the tidal wetland edge includes seaside plantain (*Plantago maritima*), sea lavender (*Limonium carolinianum*), salt meadow grass (*Spartina patens*), and seaside goldenrod (*Solidago sempervirens*). Lower portions of the slopes were covered with rockweed (*Ascophyllum nodosum*) within the intertidal zone. Important wetland functions and values in this portion of North Mill Pond include recreation potential and aesthetic quality, though both are impacted by the density and character of the surrounding urban development.

Tidal Buffer

The 100-foot tidal buffer on this parcel consists primarily of maintained lawn, a commercial building, and a parking lot. There are small patches of shrubby vegetation and small trees at the tops of the slopes between the lawn and tidal wetlands, particularly near both ends of the wetland delineation. Species in these areas include black locust (*Robinia pseudoacacia*), eastern red cedar (*Juniperus virginiana*), staghorn sumac (*Rhus typhina*), and black cherry (*Prunus serotina*). The highly-developed tidal buffer provides some vegetated permeable surfaces to help reduce and filter runoff but otherwise does little to enhance and protect the downgradient tidal wetland.

Waiver Request

The attached permit application includes a request for a waiver from Env-Wt 603.08(a) and (b), which require location and documentation of three tidal events by a licensed land surveyor. We have proposed, instead, to use the NOAA predicted tidal datums from nearby Seavey Island as conservative estimates of tidal heights. These heights are conservative because tides flow through two moderate restrictions between Seavey Island and the project site, which should dampen tidal extremes. From this analysis, the proposed project was determined to have a medium risk tolerance and is not at risk of flooding under a predicted sea level rise (SLR) of 5.0 feet by 2122.

Summary of Agency Coordination

- A preapplication teleconference was held with NHDES staff on February 23, 2021.
- A preapplication mitigation teleconference was held with NHDES staff on March 18, 2021.
- A DataCheck request was completed through the NH Natural Heritage Bureau January 30, 2024 with a finding of no recorded occurrences for sensitive species near the project area.
- A NHDES Alteration of Terrain Permit was issued for this project on July 20, 2021. Permit: AoT-1986.
- This project has received comments from Portsmouth Conservation Commission. These comments were incorporated into plans that have received local approvals, including a Wetland Conditional Use Permit, Lot Line Revision, and Site Plan Review approved July 15, 2021.
- The project does not have direct to jurisdictional wetlands and, therefore, does not require Appendix B submission to the US Army Corps.

Appendices

The following supporting documents are included as part of this submittal:

- Appendix A – Forms
 - Standard Dredge & Fill Wetlands Permit Application
 - Attachment A
 - Avoidance & Minimization Checklist
 - Copy of the Fee Payment
 - Wetlands Rule Waiver Request
 - Coastal Resource Worksheet and Attachments
 - Project Narrative with Construction Sequencing and Project Monitoring
 - Sea Level Rise Table
 - NOAA Tidal Datums
 - Architect’s Waterproofing Memorandum
- Appendix B – Federal and State Coordination
 - IPAC Review Species List
 - Section 106 NH Department of Historical Resources Response Letter
 - Shoreland Permit Application Worksheet
- Appendix C – Maps & Other Attachments
 - Tax Map
 - Abutters Notification
 - Abutters List
 - Certified Mail Receipts
 - Photograph Log
 - Site Location Map
 - Recorded Deed
 - Owner’s Letter of Authorization
 - Agent Letter of Authorization
 - Natural Heritage Bureau Results Letter
- Appendix D – Functional Assessment
- Appendix E – Figures
 - Figure 1 – Predicted Salt Marsh Migration
 - Figure 2 – Eelgrass Beds and Documented Shellfish Sites
 - Figure 3 – Projected Sea Level Rise
 - Figure 4 – Elevation View
 - Figure 5 – Priority Resource Map
 - Figure 6 – Essential Fish Habitat Map Results



- Figure 7 – FEMA Flood Map
- Appendix F – Engineering Plans

Should you have any questions or require any additional information, please contact me at 603-433-8818 or nahansen@TigheBond.com.

Sincerely,

TIGHE & BOND, INC.



Neil A. Hansen, PE
Project Manager



Patrick M. Crimmins, PE
Vice President

Enclosures

Copy: Portsmouth City Clerk
Portsmouth Conservation Commission
Portsmouth Planning Board
Portsmouth City Council
CPI Management, c/o Rob Simmons

APPENDIX A



STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division / Land Resources Management
[Check the Status of your Application](#)



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

APPLICANT'S NAME:

TOWN NAME:

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 type="checkbox"/> Yes <input type="checkbox"/> No
Does the property contain a PRA? If yes, provide the following information: <ul style="list-style-type: none"> • Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHFG) 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. • Protected species or habitat? <ul style="list-style-type: none"> ○ If yes, species or habitat name(s): ○ NHB Project ID #: • Bog? • Floodplain wetland contiguous to a tier 3 or higher watercourse? • Designated prime wetland or duly-established 100-foot buffer? • Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone? 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
Is the property within a Designated River corridor? If yes, provide the following information: <ul style="list-style-type: none"> • Name of Local River Management Advisory Committee (LAC): • A copy of the application was sent to the LAC on Month: Day: Year: 	<input type="checkbox"/> Yes <input type="checkbox"/> No

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	--

Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	--

For stream crossing projects, provide watershed size (see [WPPT](#) or Stream Stats):

SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))
 Provide a description of the project and the purpose of the project, the need for the proposed impacts to jurisdictional areas, an outline-of the scope of work to be performed, and whether impacts are temporary or permanent.

SECTION 3 - PROJECT LOCATION
 Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.

ADDRESS:

TOWN/CITY:

TAX MAP/BLOCK/LOT/UNIT:

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

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

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:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))		
<input type="checkbox"/> N/A		
LAST NAME, FIRST NAME, M.I.:		
COMPANY NAME:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically. NAH		
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:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically. DP		

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):

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.

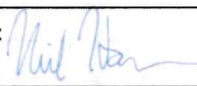

Permanent (PERM.) impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

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

JURISDICTIONAL AREA		PERM. SF	PERM. LF	PERM. ATF	TEMP. SF	TEMP. LF	TEMP. 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	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			<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			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Tidal Water			<input type="checkbox"/>			<input type="checkbox"/>
TOTAL							

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

<input type="checkbox"/> MINIMUM IMPACT FEE: Flat fee of \$400.			
<input type="checkbox"/> 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).			
<input type="checkbox"/> MINOR OR MAJOR IMPACT FEE: Calculate using the table below:			
Permanent and temporary (non-docking):	SF	× \$0.40 =	\$ 13,133.2
Seasonal docking structure:	SF	× \$2.00 =	\$
Permanent docking structure:	SF	× \$4.00 =	\$
Projects proposing shoreline structures (including docks) add \$400 =			\$
		Total =	\$ 13,133.2
<i>The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$ 13,133.2</i>			

SECTION 13 - 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 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)		
Initial each box below to certify:		
Initials: NAH	To the best of the signer's knowledge and belief, all required notifications have been provided.	
Initials: NAH	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: NAH	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. 	
Initials: NAH	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): See Owner/Applicant Authorization Letter	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE): 	PRINT NAME LEGIBLY: Neil Hansen	DATE: 2/16/2024
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: Kelli L. Barnaby	
TOWN/CITY: Portsmouth	DATE: February 20, 2024	

DIRECTIONS FOR TOWN/CITY CLERK:

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

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

DIRECTIONS FOR APPLICANT:

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



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: CPI Management, LLC, c/o Rob Simmons **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 PROPOSED PROJECT DOES NOT ADVERSELY IMPACT JURISDICTIONAL WETLANDS. THE PROJECT PROPOSES ENHANCED STORMWATER TREATMENT, DECREASED IMPERVIOUS SURFACES, AND INCREASED RECREATION USE OF THE BUFFER AREA IN COORDINATION WITH THE CITY. IMPACTS FROM THE PROJECT HAVE BEEN AVOIDED AND MINIMIZED BY PULLING PORTIONS OF THE NEW BUILDING AND PARKING LOT FURTHER BACK FROM THE COASTAL WETLAND AND UTILIZING UNDERGROUND PARKING, THUS FREEING UP SIGNIFICANT AREAS OF IMPERVIOUS SURFACES TO BE RESTORED (SEE APPENDIX F FOR THE MITIGATION PROPOSAL AND WETLAND IMPACT PLAN). ALL WORK IS BEING DONE WITHIN THE PREVIOUSLY DEVELOPED TIDAL BUFFER. NO WETLANDS WILL BE DIRECTLY IMPACTED.

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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.

No marshes are located within the project limits.

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 proposed project does not change existing hydrologic connections.

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.

Impacts from the project have been avoided and minimized by pulling portions of the new building and parking lot further back from the coastal wetland and utilizing underground parking, thus freeing up significant areas of impervious surfaces to be restored (see Appendix F for the mitigation proposal and wetland impact plan). All work is being done within the previously developed tidal buffer. No wetlands will be directly impacted, nor are any exemplary natural communities, vernal pools, protected species or habitats, documented fisheries, or habitat or reproduction areas for species of 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 increases public recreation and does not affect commerce or navigation.

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 proposed project has been designed to maintain the existing flood storage capacity within the floodplain.

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 impact these systems.

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 proposed project enhances stormwater runoff treatment from the existing condition which will improve the surrounding water conditions. Furthermore, this is an urban area adjacent to brackish waters with no potential to supply public drinking water.

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.

N/A - no 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 - no shoreline structures proposed.

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 - no shoreline structures proposed.

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 - no shoreline structures proposed.

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 - no shoreline structures proposed.

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 - no shoreline structures proposed.

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 - no shoreline structures proposed.

PART II: FUNCTIONAL ASSESSMENT

REQUIREMENTS

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

FUNCTIONAL ASSESSMENT METHOD USED:

The assessment was based on the Maine Citizens Guide to Evaluating, Restoring, and Managing Tidal Marshes (Maine Audubon, 1997); Method for Inventorying and Evaluating Wetlands In New Hampshire, University of New Hampshire Cooperative Extension, 2015; and The Highway Methodology Workbook Supplement—Wetland Functions and Values: A Descriptive Approach, NAEPP-360-1-30a, US Army Corps of Engineers, New England Division, (September 1999).

NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: LEONARD A LORD, PHD, NHCWS#14

DATE OF ASSESSMENT: OCT. 29 AND DEC. 2, 2019

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.



AVOIDANCE AND MINIMIZATION CHECKLIST
 Water Division/Land Resources Management
 Wetlands Bureau



[Check the Status of your Application](#)

RSA/Rule: RSA 482-A/ Env-Wt 311.07(c)

This checklist can be used in lieu of the written narrative required by Env-Wt 311.07(a) to demonstrate compliance with requirements for Avoidance and Minimization (A/M), pursuant to RSA 482-A:1 and Env-Wt 311.07(c).

For the construction or modification of non-tidal shoreline structures over areas of surface waters without wetland vegetation, complete only Sections 1, 2, and 4 (or the applicable sections in [Attachment A: Minor and Major Projects \(NHDES-W-06-013\)](#)).

The following definitions and abbreviations apply to this worksheet:

- “A/M BMPs” stands for [Wetlands Best Management Practice Techniques for Avoidance and Minimization](#) dated 2019, published by the New England Interstate Water Pollution Control Commission (Env-Wt 102.18).
- “Practicable” means available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes (Env-Wt 103.62).

SECTION 1 - CONTACT/LOCATION INFORMATION		
APPLICANT LAST NAME, FIRST NAME, M.I.: CPI Management, LLC, c/o Rob Simmons		
PROJECT STREET ADDRESS: 53 Green Street	PROJECT TOWN: Portsmouth	
TAX MAP/LOT NUMBER: 119/2		
SECTION 2 - PRIMARY PURPOSE OF THE PROJECT		
Env-Wt 311.07(b)(1)	Indicate whether the primary purpose of the project is to construct a water-access structure or requires access through wetlands to reach a buildable lot or the buildable portion thereof.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>If you answered “no” to this question, describe the purpose of the “non-access” project type you have proposed:</p> <p>The purpose of the project is to redevelop a parcel adjacent to a tidal wetland. The project consists of demolition of an existing multi-tenant commercial building and associated parking area. The project includes construction of a five (5) story mixed use building with approximately 45-residential units, commercial space, parking garage, and other associated site improvements. The project will include temporary and permanent impacts within the Tidal Buffer Zone. The project will result in a net reduction of impervious surface within the Tidal Buffer Zone. This project will also include the construction of a portion of the City of Portsmouth's North Mill Pond Greenway project. This is a 10 ft wide porous asphalt pathway within the 50 ft buffer of North Mill Pond for public recreational use. These improvements will be both temporary and permanent.</p>		

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SECTION 3 - A/M PROJECT DESIGN TECHNIQUES		
Check the appropriate boxes below in order to demonstrate that these items have been considered in the planning of the project. Use N/A (not applicable) for each technique that is not applicable to your project.		
Env-Wt 311.07(b)(2)	For any project that proposes new permanent impacts of more than one acre or that proposes new permanent impacts to a Priority Resource Area (PRA), or both, whether any other properties reasonably available to the applicant, whether already owned or controlled by the applicant or not, 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.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 311.07(b)(3)	Whether alternative designs or techniques, such as different layouts, construction sequencing, or alternative technologies could be used to avoid impacts to jurisdictional areas or their functions and values.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(1) Env-Wt 311.10(c)(2)	The results of the functional assessment required by Env-Wt 311.03(b)(10) were used to select the location and design for the proposed project that has the least impact to wetland functions.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(3)	Where impacts to wetland functions are unavoidable, the proposed impacts are limited to the wetlands with the least valuable functions on the site while avoiding and minimizing impacts to the wetlands with the highest and most valuable functions.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.01(c)(1) Env-Wt 313.01(c)(2) Env-Wt 313.03(b)(1)	No practicable alternative would reduce adverse impact on the area and environments under the department's jurisdiction and the project will not cause random or unnecessary destruction of wetlands.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.01(c)(3)	The project would not cause or contribute to the significant degradation of waters of the state or the loss of any PRAs.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.03(b)(3) Env-Wt 904.07(c)(8)	The project maintains hydrologic connectivity between adjacent wetlands or stream systems.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	Buildings and/or access are positioned away from high function wetlands or surface waters to avoid impact.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	The project clusters structures to avoid wetland impacts.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	The placement of roads and utility corridors avoids wetlands and their associated streams.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
A/M BMPs	The width of access roads or driveways is reduced to avoid and minimize impacts. Pullouts are incorporated in the design as needed.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
A/M BMPs	The project proposes bridges or spans instead of roads/driveways/trails with culverts.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A

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A/M BMPs	The project is designed to minimize the number and size of crossings, and crossings cross wetlands and/or streams at the narrowest point.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 500 Env-Wt 600 Env-Wt 900	Wetland and stream crossings include features that accommodate aquatic organism and wildlife passage.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 900	Stream crossings are sized to address hydraulic capacity and geomorphic compatibility.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
A/M BMPs	Disturbed areas are used for crossings wherever practicable, including existing roadways, paths, or trails upgraded with new culverts or bridges.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
SECTION 4 - NON-TIDAL SHORELINE STRUCTURES		
Env-Wt 313.03(c)(1)	The non-tidal shoreline structure has been designed to use the minimum construction surface area over surfaces waters necessary to meet the stated purpose of the structure.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(2)	The type of construction proposed for the non-tidal shoreline structure is the least intrusive upon the public trust that will ensure safe navigation and docking on the frontage.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(3)	The non-tidal shoreline structure has been designed to avoid and minimize impacts on the ability of abutting owners to use and enjoy their properties.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(4)	The non-tidal shoreline structure has been designed to avoid and minimize impacts to the public's right to navigation, passage, and use of the resource for commerce and recreation.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(5)	The non-tidal shoreline structure has been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(6)	The non-tidal shoreline structure has 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.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A

0235

Cathartes Capital LLC

11 Portwalk Place
Portsmouth, NH 03842
978 302-0519

First Republic Bank
111 Pine Street
San Francisco, CA 94111
11-8166/3210

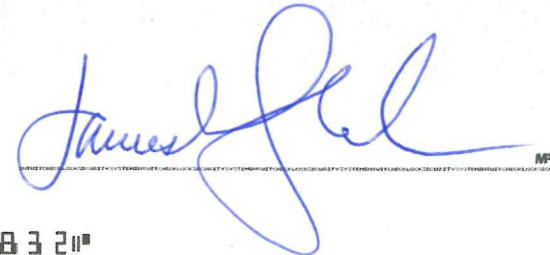
02/13/2024

PAY TO THE ORDER OF Treasurer State Of New Hampshire

\$*13,133.20

Thirteen thousand one hundred thirty-three and 20/100***** DOLLARS

Treasurer State Of New Hampshire
Attn: Neil Hansen
177 Corporate Drive
Portsmouth, NH 03801
United States



MEMO *WETLAND PERMIT APP*

⑈000235⑈ ⑆321081669⑆ 80010460832⑈

Cathartes Capital LLC
02/13/2024

Treasurer State Of New Hampshire

Wetland Permit Fee

0235

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First Republic Funding 0832

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**WETLANDS RULE WAIVER OR
DWELLING OVER WATER WAIVER
REQUEST FORM**
WATER DIVISION/LAND RESOURCES MANAGEMENT
WETLANDS BUREAU



RSA/Rule: RSA 482-A/ Env-Wt 204

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).

SECTION 1 - PROJECT LOCATION INFORMATION (Env-Wt 204.03(c))			
ADDRESS:	TOWN/CITY:	STATE: NH	ZIP CODE:
TAX MAP/LOT NUMBER:			
SECTION 2 - WAIVER REQUESTOR INFORMATION (Env-Wt 204.03(a))			
LAST NAME, FIRST NAME, M.I.:			
MAILING ADDRESS:			
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL ADDRESS (if available): or if not FAX NUMBER:		DAYTIME PHONE NUMBER:	
SECTION 3 - APPLICANT INFORMATION (Env-Wt 204.03(b))			
If request is being made on behalf of someone else, include the following information regarding the person being represented. If requestor is the applicant, check the following box and proceed to Section 4.			
<input type="checkbox"/> Requestor is the applicant.			
LAST NAME, FIRST NAME, M.I.:			
MAILING ADDRESS:			
TOWN/CITY:		STATE: <input style="width: 20px;" type="text"/>	ZIP CODE: <input style="width: 40px;" type="text"/>
EMAIL ADDRESS (if available): or if not FAX NUMBER:		DAYTIME PHONE NUMBER:	

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SECTION 4 - WAIVER INFORMATION
SECTION 4A - WAIVER TO RULE Env-Wt 100-900 <input type="checkbox"/> N/A - If you are not requesting a rule waiver, check this box and proceed to Section 4b
Provide the number of the specific section of each rule for which a waiver is sought (Env-Wt 204.03(d)): Env-Wt
Provide a complete explanation of why a waiver is being requested, including an explanation of the operational and economic consequences of complying with the requirement and, if the requested waiver would extend the duration of a permit, the reason(s) why the permit holder was not able to complete the project within the specified time (Env-Wt 204.03(f)(1)):
If applicable, provide a complete explanation of the alternative that is proposed to be substituted for the requirement in Env-Wt, including written documentation or data, or both, to support the alternative (Env-Wt 204.03(g)):
SECTION 4B – DWELLING OVER WATERS WAIVER UNDER RSA 482-A:26, III(b). <input type="checkbox"/> N/A - If you are not requesting a standard waiver, check this box and proceed to Section 5)
Identify the specific standard to which a waiver is being requested (Env-Wt 204.03(e)): RSA 482-A:
Provide a complete explanation of why a waiver is being requested, including a complete explanation of how the statutory criteria of RSA 482-A:26, III(b) will be met (Env-Wt 204.03(f)(2)):

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SECTION 5 - ADDITIONAL WAIVER INFORMATION (Env-Wt 204.03(h); Env-Wt 204.03(i))
 (applicable to Waivers of Rules *and* Standards under RSA 482-A:26, III(b))

Indicate whether the waiver is needed for a limited duration and, if so, an estimate of when the waiver will no longer be needed (Env-Wt 204.03(h)):


Provide a complete explanation of why the applicant believes that having the waiver granted will meet the criteria in Env-Wt 204.05 or 204.06, as applicable (Env-Wt 204.03(i)):

SECTION 6 - REQUIRED CERTIFICATIONS (Env-Wt 204.04)

Initial each box and sign below to certify:

Initials:	The information provided is true, complete, and not misleading to the knowledge and belief of the signer.
Initials:	The signer understands that any waiver granted based on false, incomplete, or misleading information shall be subject to revocation; and

SECTION 7 - REQUESTOR SIGNATURE (Env-Wt 204.04)

SIGNATURE (APPLICANT): * See Owner/Applicant Authorization Letter	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (REQUESTOR): 	PRINT NAME LEGIBLY:	DATE:

*In lieu of an applicant signature, you may include a separate signed and dated authorization for the requestor to act on the person's behalf in connection with the request.



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.: CPI Management, c/o Rob Simmons

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 consists of demolition of an existing multi-tenant commercial building and associated parking area. The project includes construction of a five (5) story mixed use building with approximately 45-residential units, commercial space, parking garage, and other associated site improvements. The project will include permanent impacts, though will result in a net reduction of impervious surface within the Tidal Buffer Zone. This project will also include the construction of a portion of the City of Portsmouth's North Mill Pond Greenway project. This is a 10 ft wide porous asphalt pathway within the 50 ft buffer of North Mill Pond for public recreational use. All project impacts will be within the tidal buffer zone; there will be no direct wetland impacts.

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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 100-foot tidal buffer on this parcel consists primarily of maintained lawn, a commercial building and a parking lot. There are small patches of shrubby vegetation and small trees at the tops of the slopes between the lawn and tidal wetland, particularly near both ends of the wetland delineation.

The proposed project will result in a net reduction in impervious surfaces. Restoring impervious surfaces restores vegetation, reduces runoff to the tidal wetlands, provides improved water quality treatment of runoff, allows for increased wetland screening for wildlife and restores available wildlife habitat. Installation of the North Mill Pond trail and greenway would result in improved functions and values of the wetland and buffer including: ecological integrity, recreation potential, aesthetic quality and possibly educational potential. Existing impacts to the 100-foot buffer will also be reduced from the trail and greenway improvements through the removal and restoration of impervious surfaces.

The project will restore 4,303 SF and enhance 15,835 SF of previously developed tidal buffer area.

The 100-foot tidal buffer impact limits will be marked and erosion control measures will be in place prior to project construction. Monitoring will occur during and following construction to assure impacts are minimized and proposed restoration activities are properly carried out.

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

Surface waters will not be impacted by the project. All work will be conducted within upland areas and will employ proper erosion and sediment control Best Management Practices, including but not limited to stabilization of disturbed soils following construction. No equipment will be used within surface waters or wetlands and no invasive species will be used to stabilize the site. The NH Natural Heritage Bureau DataCheck has determined that no rare species or critical habitats will be impacted. All work on this project is within previously developed and landscaped areas and will be consistent with the Shoreland Water Quality Protection Act. No work will be adjacent to designated prime wetlands. The project does not involve dredging or filling of wetlands and areas of temporary soil disturbance will be stabilized within three days of the final grading as described in the construction sequencing. No work will be done within 10-feet of a property line without an abutter's prior written notice.

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.

A project design narrative, including monitoring, is attached.

- 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.

N/A

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.

The project useful life is expected to be 100 years. There are expected to be significant upgrades over that time period, which will include technologies to deal with rising sea levels as needed.

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.

NH Coastal Flood Risk Summary Part II, Step 2 Table: Medium Risk Tolerance

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.

NH Coastal Flood Risk Summary Part II, Step 3 Table A: Sea level rise for Medium Risk Tolerance is 5.0 feet (13.76 feet NGVD29) by 2122.

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

The current 100 -year floodplain (Zone AE) base flood elevation is 8.0 feet NAVD88, which is 8.76 feet NGVD29. The threshold for the parking garage is elevation 10.75 feet and the finished floor elevation of the first floor is 14.75 feet NGVD29. The below grade parking elevation is 6.08 feet. The 100-year floodplain is expected to be above the parking garage threshold within 36 years with a 2.0 foot sea level rise (elevation 10.76 feet) by 2058.

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

Portions of the existing lawn on the northwest side of the property are currently within the 100-year floodplain.

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

The proposed project consists of a 5-story residential use building with one level of below grade parking and one level of parking at grade and beneath the building. The threshold for the parking garage door is 10.75 feet and the finished floor elevation of the first floor is 14.75 feet NGVD29, nearly one foot above the predicted 2122 100-year floodplain .

Two forms of waterproofing are being employed to protect the basement parking garage from water seepage. The slab will be protected with a blind-side waterproofing membrane. The foundation walls will be protected by a water-proofing sheet membrane. These two membranes will connect below the footings along the building perimeter.

Flood proofing technologies will be deployed to relieve potential flooding in the parking garage by 2058, when the 100-year floodplain is expected to exceed the garage threshold.

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: This project does not require mitigation, therefore it does not require a pre-application meeting

SECTION 5 - DESIGN PLANS (Env-Wt 603.07, in addition to Env-Wt 311)

Submit design plans for the project in both plan and elevation views that clearly depict and identify all required elements.

The plan view shall depict the following:

- The engineering scale used, which shall be no larger than one inch equals 50 feet;
- The location of tidal datum lines depicted as lines with the associated elevation noted, based on North American Vertical Datum of 1988 (NAVD 88), derived from https://tidesandcurrents.noaa.gov/datum_options.html, as described in Section 6.
- An imaginary extension of property boundary lines into the waterbody and a 20-foot setback from those property line extensions;
- The location of all special aquatic sites at or within 100 feet of the subject property;
- Existing bank contours;
- The name and license number, if applicable, of each individual responsible for the plan, including:
 - a. The agent for tidal docking structures who determined elevations represented on plans; and
 - b. The qualified coastal professional who completed the CFA report and located the identified resources on the plan;
- The location and dimensions of all existing and proposed structures and landscape features on the property;
- Tidal datum(s) with associated elevations noted, based on NAVD 88; and
- Location of all special aquatic sites within 100-feet of the property.

The elevation view shall depict the following:

- The nature and slope of the shoreline;
- The location and dimensions of all proposed structures, including permanent piers, pilings, float stop structures, ramps, floats, and dolphins; and
- Water depths depicted as a line with associated elevation at highest observable tide, mean high tide, and mean low tide, and the date and tide height when the depths were measured. Refer to Section 6 for more instructions regarding water depth supporting information.

See specific design and plan requirements for certain types of coastal projects:

- Overwater structures (Env-Wt 606).
- Tidal shoreline stabilization (Env-Wt 609).
- Dredging activities (Env-Wt 607).
- Protected tidal zone (Env-Wt 610).

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- Tidal beach maintenance (Env-Wt 608).
- Sand Dunes (Env-Wt 611).

SECTION 6 - WATER DEPTH SUPPORTING INFORMATION REQUIRED (Env-Wt 603.08)

Using current predicted NOAA tidal datum for the location, and tying field measurements to NAVD 88, field observations of at least three tide events, including at least one minus tide event, shall be located to document the range of the tide in the proposed location showing the following levels:

- Mean lower low water;
- Mean low water;
- Mean high water;
- Mean tide level;
- Mean higher high water;
- Highest observable tide line; and
- Predicted sea-level rise as identified in the vulnerability assessment in Env-Wt 603.05.

The following data shall be presented in the application project narrative to support how water depths were determined:

- The date, time of day, and weather conditions when water depths were recorded; and
- The name and license number of the licensed land surveyor who conducted the field measurements.

For tidal stream crossing projects, provide:

- Water depth information to show how the tier 4 stream crossing is designed to meet Env-Wt 904.07(c) and (d).

For repair, rehabilitation or replacement of tier 4 stream crossings:

- Demonstrate how the requirements of Env-Wt 904.09 are met.

SECTION 7 - GENERAL CRITERIA FOR TIDAL BEACHES, TIDAL SHORELINE, AND SAND DUNES (Env-Wt 604.01)

Any person proposing a project in or on a tidal beach, tidal shoreline, or sand dune, or any combination thereof, shall evaluate the proposed project based on:

- The standard conditions in Env-Wt 307;
- The avoidance and minimization requirements in Env-Wt 311.07 and Env-Wt 313.03;
- The approval criteria in Env-Wt 313.01;
- The evaluation criteria in Env-Wt 313.05;
- The project specific criteria in Env-Wt 600;
- The CFA required by Env-Wt 603.04; and
- The vulnerability assessment required by Env-Wt 603.05.

New permanent impacts to sand dunes that provide coastal storm surge protection for protected species or habitat shall not be allowed except:

- To protect public safety; and
- Only if constructed by a state agency, coastal resiliency project, or for a federal homeland security project.

Projects in or on a tidal beach, tidal shoreline, or sand dune shall support integrated shoreline management that:

- Optimizes the natural function of the shoreline, including protection or restoration of habitat, water quality, and self-sustaining stability to flooding and storm surge; and
- Protects upland infrastructure from coastal hazards with a preference for living shorelines over hardened shoreline practices.

SECTION 8 - GENERAL CRITERIA FOR TIDAL BUFFER ZONES (Env-Wt 604.02)

The 100-foot statutory limit on the extent of the tidal buffer zone shall be measured horizontally. Any person proposing a project in or on an undeveloped tidal buffer zone shall evaluate the proposed project based on:

- The standard conditions in Env-Wt 307;
- The avoidance and minimization requirements in Env-Wt 311.07 and Env-Wt 313.03;
- The approval criteria in Env-Wt 313.01;
- The evaluation criteria in Env-Wt 313.05;
- The project specific criteria in Env-Wt 600;
- The CFA required by Env-Wt 603.04; and
- The vulnerability assessment required by Env-Wt 603.05.

Projects in or on a tidal buffer zone shall preserve the self-sustaining ability of the buffer area to:

- Provide habitat values;
- Protect tidal environments from potential sources of pollution;
- Provide stability of the coastal shoreline; and
- Maintain existing buffers intact where the lot has disturbed area defined under RSA 483-B:4, IV.

SECTION 9 - GENERAL CRITERIA FOR TIDAL WATERS/WETLANDS (Env-Wt 604.03)

Except as allowed under Env-Wt 606, permanent new impacts to tidal wetlands shall be allowed only to protect public safety or homeland security. Evaluation of impacts to tidal wetlands and tidal waters shall be based on:

- The standard conditions in Env-Wt 307;
- The avoidance and minimization requirements in Env-Wt 311.07 and Env-Wt 313.03;
- The approval criteria in Env-Wt 313.01;
- The evaluation criteria in Env-Wt 313.05;
- The project specific criteria in Env-Wt 600;
- The CFA required by Env-Wt 603.04; and
- The vulnerability assessment required by Env-Wt 603.05.

Projects in tidal surface waters or tidal wetlands shall:

- Optimize the natural function of the tidal wetland, including protection or restoration of habitat, water quality, and self-sustaining stability to storm surge;
- Be designed with a preference for living shorelines over hardened stabilization practices; and

Be limited to public infrastructure or restoration projects that are in the interest of the general public, including a road, a bridge, energy infrastructure, or a project that addresses predicted sea-level rise and coastal flood risk.

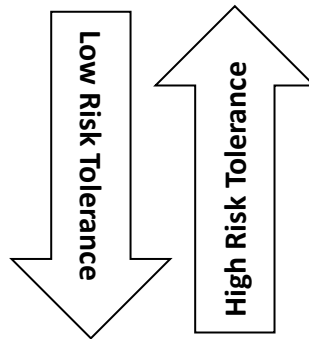
SECTION 10 – GUIDANCE

Your application must follow the New Hampshire Coastal Risk and Hazards Commission’s Guiding Principles or other best available science. Below are some of these guidance principles:

- Incorporate science-based coastal flood risk projections into planning;
- Apply risk tolerance* to assessment, planning, design, and construction;
- Protect natural resources and public access;
- Create a bold vision, start immediately, and respond incrementally and opportunistically as projected coastal flood risks increase over time; and
- Consider the full suite of actions including effectiveness and consequences of actions.

*Risk tolerance is a project’s willingness to accept a higher or lower probability of flooding impacts. The diagram below gives examples of project with lower and higher risk tolerance:

Critical infrastructures, historic sites, essential ecosystems, and high value assets typically have lower risk tolerance, and thus should be planned, designed, and constructed using higher coastal flood risk projections.



Sheds, pathways, and small docks typically have higher risk tolerance and thus may be planned, designed, and constructed using less protective coastal flood risk projections.

Project Design Narrative

Project Discussion

Env-Wt 307. Surface waters will not be impacted by the project. All work will be conducted within uplands and will employ proper erosion and sediment control BMPs. No equipment will be used within surface waters or wetlands and no invasive species will be used to stabilize the site. The NH Natural Heritage Bureau DataCheck has determined that no rare species or critical habitats will be impacted. All work on this project is within previously developed and landscaped areas and will be consistent with the Shoreland Water Quality Protection Act. No work will be adjacent to designated prime wetlands. The project does not involve dredging or filling of wetlands. Areas of temporary soil disturbance will be stabilized within three days of final grading as described in the construction sequencing below. No work will be done within 10 feet of a property line without an abutter's prior written consent.

Env-Wt 311.07 & 313.03. Impacts from the project have been avoided and minimized by pulling portions of the new building and parking lot further back from the coastal wetland and utilizing underground parking, thus freeing up significant areas of impervious surfaces to be restored (see Appendix F for the mitigation proposal and wetland impact plan). All work is being done within the previously developed tidal buffer. No wetlands will be directly impacted.

Env-Wt 313.01. As described throughout this application, the project will meet all permit approval criteria.

Env-Wt 313.01(c). Impacts from the project have been avoided and minimized by pulling portions of the new building and parking lot further back from the coastal wetland and utilizing underground parking, thus freeing up significant areas of impervious surfaces to be restored (see Appendix F for the mitigation proposal and wetland impact plan). All work is being done within the previously developed tidal buffer. No wetlands will be directly impacted.

Env-Wt 603.04. A Coastal Functional Assessment is provided in Appendix D

Env-Wt 603.05. A Vulnerability Assessment is included on the Coastal Worksheet and includes consideration of sea level rise and flooding. Design plans are attached that include water depth information. The project has a medium risk tolerance. The threshold of the underground parking will be below the elevation of the predicted 100 year floodplain by 2058, however, flood proofing technologies will be installed to relieve flooding in that area before that time. The first floor finish elevation will be approximately one foot above the predicted 100-year floodplain in 2122.

Construction Sequencing

1. Prior written consent will be obtained from abutters prior to any soil disturbance less than 10 feet from property lines.
2. Cut and clear trees as required.
3. Construct temporary and permanent sediment, erosion and detention control facilities. Erosion, sediment, and detention measures shall be installed prior to any earth moving operations.
4. Establish a properly constructed dewatering area as needed. Wherever possible, the discharge from the dewatering structure shall drain to a well-vegetated buffer by sheet

flow while maximizing the distance to the nearest water resource and minimizing the slope of the buffer area.

5. All permanent ditches, swales, detention, retention, and sedimentation basins to be stabilized using the vegetative and non-structural BMPs prior to directing runoff to them.
6. Clear and dispose of debris.
7. Construct temporary culverts and diversion channels as required.
8. Grade and gravel roadways and parking areas – all roads and parking areas shall be stabilized within 72 hours of achieving finishing grade.
9. Begin permanent and temporary seeding and mulching. All cut and fill slopes shall be seeded and mulched within 72 hours of achieving finished grade daily, or as required.
10. Finish paving all roadways and parking lots.
11. Inspect and maintain all erosion and sediment control measures.
12. Complete permanent seeding and landscaping.
13. Remove trapped sediments from collector devices as appropriate and then remove temporary erosion control measures.

Project Monitoring, Maintenance, and Management

The project will be monitored during and following construction by a NH Certified Wetland Scientist or other qualified professional to be sure the site is stabilized, and all components have been properly installed. The restoration areas will be followed up with annual monitoring by a NH Certified Wetland Scientist or other qualified professional. Monitoring will continue until the site is fully stabilized and there is at least 75% survivorship of restoration plantings.

The project building and grounds will be maintained by the owners as needed. The grounds will be maintained by contracted landscapers.

STEP 3 TABLE A. RECOMMENDED DECADAL RSLR ESTIMATES (IN FEET ABOVE 2000 LEVELS) BASED ON RCP 4.5, PROJECT TIMEFRAME, AND TOLERANCE FOR FLOOD RISK.

TIMEFRAME	HIGH TOLERANCE FOR FLOOD RISK	MEDIUM TOLERANCE FOR FLOOD RISK	LOW TOLERANCE FOR FLOOD RISK	VERY LOW TOLERANCE FOR FLOOD RISK
	Plan for the following RSLR estimate (ft)* compared to sea level in the year 2000			
	Lower magnitude, Higher probability			Higher magnitude, Lower probability
2030	0.7	0.9	1.0	1.1
2040	1.0	1.2	1.5	1.6
2050	1.3	1.6	2.0	2.3
2060	1.6	2.1	2.6	3.0
2070	2.0	2.5	3.3	3.7
2080	2.3	3.0	3.9	4.5
2090	2.6	3.4	4.6	5.3
2100	2.9	3.8	5.3	6.2
2110	3.3	4.4	6.1	7.3
2120	3.6	4.9	7.0	8.3
2130	3.9	5.4	7.9	9.3
2140	4.3	5.9	8.9	10.5
2150	4.6	6.4	9.9	11.7

2058 (36 yr) = 2.0 ft

2122 (100 yr) = 5.0 ft

*The colors (blue, red, purple, green) in Step 3 Table A correspond with the colors of the graph depicted in Figure 2 (see also Figure 4.5 in *Part I: Science*¹⁷). The RSLR estimates for High tolerance for flood risk projects correspond with K14, upper end of “likely” estimates for RCP4.5 (83% chance RSLR will not exceed this value). The RSLR estimates for Medium tolerance for flood risk projects correspond with K14, 1-in-20 chance estimates for RCP 4.5. The RSLR estimates for Low tolerance for flood risk projects correspond with K14, 1-in-100 chance estimates for RCP 4.5. The RSLR estimates for Very Low tolerance for flood risk projects correspond with K14, 1-in-200 chance estimates for RCP4.5. For K14, 1-in-1000 chance estimates, see Table 4.2 in *Part I: Science*.¹⁷ Note that while the Bayesian probabilities associated with RSLR projections are useful, they have some limitations as described in Box 4.3 in *Part I: Science*.¹⁷



Home (/) / Products ([products.html](#)) / Datums ([stations.html?type=Datums](#)) / 8419870 Seavey Island, ME Favorite Stations

Station Info **Tides/Water Levels** Meteorological Obs. Phys. Oceanography

PORTS® ([/ports/ports.html?id=8419870](#))

OFS ([/ofs/ofs_station.shtml?stname=Seavey Island&ofs=gom&stnid=8419870&subdomain=0](#))

Datums for 8419870, Seavey Island ME

NOTICE: All data values are relative to the NAVD88.

Elevations on NAVD88 (NGVD29)

Station: 8419870, Seavey Island, ME

Status: Accepted (Aug 8 2016)

Units: Feet

Control Station: 8418150 Portland, ME

T.M.: 0

Epoch: ([/datum_options.html#NTDE](#)) 1983-2001

Datum: NAVD88

Datum	Value	Description
MHHW (/datum_options.html#MHHW)	4.22 (4.98)	Mean Higher-High Water
MHW (/datum_options.html#MHW)	3.81 (4.57)	Mean High Water
MTL (/datum_options.html#MTL)	-0.24 (0.52)	Mean Tide Level
MSL (/datum_options.html#MSL)	-0.19 (0.57)	Mean Sea Level
DTL (/datum_options.html#DTL)	-0.20 (0.56)	Mean Diurnal Tide Level
MLW (/datum_options.html#MLW)	-4.30 (-3.54)	Mean Low Water
MLLW (/datum_options.html#MLLW)	-4.62 (-3.86)	Mean Lower-Low Water
NAVD88 (/datum_options.html)	0.00 (0.76)	North American Vertical Datum of 1988
STND (/datum_options.html#STND)	-6.97 (-6.20)	Station Datum
GT (/datum_options.html#GT)	8.84 (9.60)	Great Diurnal Range
MN (/datum_options.html#MN)	8.11 (8.88)	Mean Range of Tide

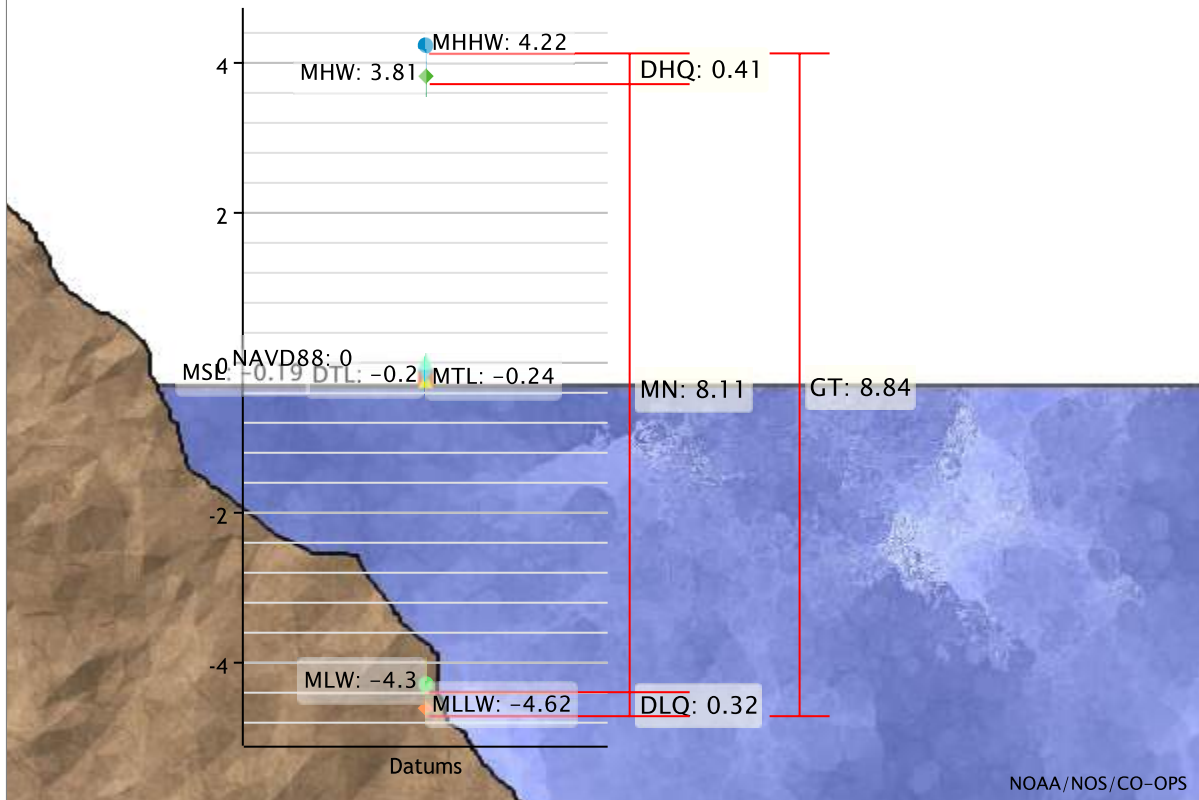
Datum	Value	Description
DHQ (/datum_options.html#DHQ)	0.41 (1.18)	Mean Diurnal High Water Inequality
DLQ (/datum_options.html#DLQ)	0.32 (1.09)	Mean Diurnal Low Water Inequality
HWI (/datum_options.html#HWI)	3.92 (4.69)	Greenwich High Water Interval (in hours)
LWI (/datum_options.html#LWI)	10.04 (10.80)	Greenwich Low Water Interval (in hours)
Max Tide (/datum_options.html#MAXTIDE)	7.90 (8.67)	Highest Observed Tide
Max Tide Date & Time (/datum_options.html#MAXTIDEDT)	02/07/1978 10:42	Highest Observed Tide Date & Time
Min Tide (/datum_options.html#MINTIDE)	-7.97 (-7.21)	Lowest Observed Tide
Min Tide Date & Time (/datum_options.html#MINTIDEDT)	11/30/1955 00:00	Lowest Observed Tide Date & Time
HAT (/datum_options.html#HAT)	5.90 (6.66)	Highest Astronomical Tide
HAT Date & Time	06/15/1995 05:12	HAT Date and Time
LAT (/datum_options.html#LAT)	-6.29 (-5.53)	Lowest Astronomical Tide
LAT Date & Time	01/21/1996 22:54	LAT Date and Time

Tidal Datum Analysis Periods

11/01/2000 - 10/31/2001

Datums for 8419870, Seavey Island, ME

All figures in feet relative to NAVD88



NOAA/NOS/CO-OPS

Showing datums for

8419870 Seavey Island, ME

Datum

NAVD88

Data Units Feet
 Meters

Epoch Present (1983-2001)
 Superseded (1960-1978)

Submit

Show nearby stations

Date: July 27, 2021

To: Patrick Crimmins
Tighe and Bond

From: Robert Del Savio | Embarc

Re: **53 Green Street – Portsmouth, New Hampshire
Waterproofing**

cc: file

P:\20055_53 Green Street\documents\correspondence\M-072721 Memo Regarding Waterproofing.dotx

The proposed project at 53 Green Street consists of a 5-story residential use building with one level of below grade parking and one level of parking at grade and beneath the footprint of the building above. Commercial space is provided along Green Street.

The finished floor elevation of the residential lobby and commercial space is Elev.: +14.75 and the finished floor elevation of the higher parking level is Elev.: +15.75. The below grade parking level, labelled as Basement Level on the plans, includes spaces for car parking, egress stairs and an elevator with a vestibule. The elevation of this Basement Level is Elev.: +6.08. There are no openings in the foundation walls below Elev.: 10.75 except for penetration of piping for various utility services.

Access to the Basement Level parking is by way of a garage door on the east side of the building. The threshold of the garage door is at Elev.: 10.75, approximately 2'-0" feet above the existing flood plain elevation of +8.76.

With respect to protection from water intrusion into the Basement Level parking, two forms of waterproofing are being employed. The slab of this Basement Level will be protected with a blind-side waterproofing membrane. The foundation walls will be protected by the application of a water-proofing sheet membrane. These two membranes will connect below the footings along the perimeter of the building. Pipe, conduit, or other penetrations shall be sealed using watertight modular mechanical seals.



APPENDIX B





United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To:
Project Code: 2024-0043341
Project Name: 53 Green St. Mixed Used Development

January 31, 2024

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Updated 4/12/2023 - Please review this letter each time you request an Official Species List, we will continue to update it with additional information and links to websites may change.

About Official Species Lists

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Federal and non-Federal project proponents have responsibilities under the Act to consider effects on listed species.

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested by returning to an existing project's page in IPaC.

Endangered Species Act Project Review

Please visit the “**New England Field Office Endangered Species Project Review and Consultation**” website for step-by-step instructions on how to consider effects on listed

species and prepare and submit a project review package if necessary:

<https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review>

NOTE Please do not use the **Consultation Package Builder** tool in IPaC except in specific situations following coordination with our office. Please follow the project review guidance on our website instead and reference your **Project Code** in all correspondence.

Northern Long-eared Bat - (Updated 4/12/2023) The Service published a final rule to reclassify the northern long-eared bat (NLEB) as endangered on November 30, 2022. The final rule went into effect on March 31, 2023. You may utilize the **Northern Long-eared Bat Rangewide Determination Key** available in IPaC. More information about this Determination Key and the Interim Consultation Framework are available on the northern long-eared bat species page:

<https://www.fws.gov/species/northern-long-eared-bat-myotis-septentrionalis>

For projects that previously utilized the 4(d) Determination Key, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective. If your project was not completed by March 31, 2023, and may result in incidental take of NLEB, please reach out to our office at newengland@fws.gov to see if reinitiation is necessary.

Additional Info About Section 7 of the Act

Under section 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether projects may affect threatened and endangered species and/or designated critical habitat. If a Federal agency, or its non-Federal representative, determines that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Federal agency also may need to consider proposed species and proposed critical habitat in the consultation. 50 CFR 402.14(c)(1) specifies the information required for consultation under the Act regardless of the format of the evaluation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/service/section-7-consultations>

In addition to consultation requirements under Section 7(a)(2) of the ESA, please note that under sections 7(a)(1) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species. Please contact NEFO if you would like more information.

Candidate species that appear on the enclosed species list have no current protections under the ESA. The species' occurrence on an official species list does not convey a requirement to

consider impacts to this species as you would a proposed, threatened, or endangered species. The ESA does not provide for interagency consultations on candidate species under section 7, however, the Service recommends that all project proponents incorporate measures into projects to benefit candidate species and their habitats wherever possible.

Migratory Birds

In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see:

<https://www.fws.gov/program/migratory-bird-permit>

<https://www.fws.gov/library/collections/bald-and-golden-eagle-management>

Please feel free to contact us at **newengland@fws.gov** with your **Project Code** in the subject line if you need more information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat.

Attachment(s): Official Species List

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office

70 Commercial Street, Suite 300

Concord, NH 03301-5094

(603) 223-2541

PROJECT SUMMARY

Project Code: 2024-0043341
Project Name: 53 Green St. Mixed Used Development
Project Type: Mixed-Use Construction
Project Description: Construction of mixed use building including 45 residential units, commercial space, and garage parking.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.08025755,-70.76203626179766,14z>



Counties: Rockingham County, New Hampshire

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered

BIRDS

NAME	STATUS
Roseate Tern <i>Sterna dougallii dougallii</i> Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2083	Endangered

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Neil Hansen
Address: 177 Corporate Drive
City: Portsmouth
State: NH
Zip: 03801
Email: nahansen@tighebond.com
Phone: 6034338818



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To:
Project code: 2024-0043341
Project Name: 53 Green St. Mixed Used Development

January 31, 2024

Federal Nexus: no
Federal Action Agency (if applicable):

Subject: Technical assistance for '53 Green St. Mixed Used Development'

Dear Neil Hansen:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on January 31, 2024, for '53 Green St. Mixed Used Development' (here forward, Project). This project has been assigned Project Code 2024-0043341 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements are not complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.***

Determination for the Northern Long-Eared Bat

Based upon your IPaC submission and a standing analysis, your project is not reasonably certain to cause incidental take of the northern long-eared bat. Unless the Service advises you within 15 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Monarch Butterfly *Danaus plexippus* Candidate
- Roseate Tern *Sterna dougallii dougallii* Endangered

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

Next Step

Coordination with the Service is complete. This letter serves as technical assistance. All conservation measures should be implemented as proposed. Thank you for considering federally listed species during your project planning.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the New England Ecological Services Field Office and reference Project Code 2024-0043341 associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

53 Green St. Mixed Used Development

2. Description

The following description was provided for the project '53 Green St. Mixed Used Development':

Construction of mixed use building including 45 residential units, commercial space, and garage parking.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.08025755,-70.76203626179766,14z>



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect, but not likely to adversely affect” for the Endangered northern long-eared bat (*Myotis septentrionalis*).

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Does any component of the action involve construction or operation of wind turbines?

Note: For federal actions, answer ‘yes’ if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

3. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

No

4. [Semantic] Is the action area located within 0.5 miles of a known northern long-eared bat hibernaculum?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

5. Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating northern long-eared bats?

No

6. Does the action area contain or occur within 0.5 miles of (1) talus or (2) anthropogenic or naturally formed rock crevices in rocky outcrops, rock faces or cliffs?

No

7. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?
(If unsure, answer "Yes.")

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats (i.e., live trees and/or snags ≥ 3 inches (12.7 centimeter) dbh), answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat can be found at: <https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions>

Yes

8. Will the action cause effects to a covered bridge?

No

9. Does the action include the intentional exclusion of northern long-eared bats from a building or structure?

Note: Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local U.S. Fish and Wildlife Services Ecological Services Field Office to help assess whether northern long-eared bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures

No

10. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats?**

No

11. Will the action directly or indirectly cause construction of one or more new roads that are open to the public?

Note: The answer may be yes when a publicly accessible road either (1) is constructed as part of the proposed action or (2) would not occur but for the proposed action (i.e., the road construction is facilitated by the proposed action but is not an explicit component of the project).

No

12. Will the action include or cause any construction or other activity that is reasonably certain to increase average daily traffic on one or more existing roads?

Note: For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

13. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

14. Will the proposed action involve the creation of a new water-borne contaminant source (e.g., leachate pond pits containing chemicals that are not NSF/ANSI 60 compliant)?

No

15. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

16. Will the action include drilling or blasting?

No

17. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)?

No

18. Will the proposed action involve the use of herbicides or pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?

No

19. Will the action include or cause activities that are reasonably certain to cause chronic nighttime noise in suitable summer habitat for the northern long-eared bat? Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time.

Note: Additional information defining suitable summer habitat for the northern long-eared bat can be found at: <https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions>

No

20. Does the action include, or is it reasonably certain to cause, the use of artificial lighting within 1000 feet of suitable northern long-eared bat roosting habitat?

Note: Additional information defining suitable roosting habitat for the northern long-eared bat can be found at: <https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions>

No

21. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

Yes

22. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property and has a diameter breast height of six inches or greater.

No

23. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥ 3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)?

Yes

24. [Semantic] Does your project intersect a known sensitive area for the northern long-eared bat?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your [state agency or USFWS field office](#)

Automatically answered

No

25. Will all tree cutting/trimming or other knocking or bringing down of trees be restricted to the inactive (hibernation) season for northern long-eared bat?

Note: Inactive Season dates for spring staging/fall swarming areas can be found here: <https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas>.

Yes

26. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 10 acres?

No

27. Will the action cause trees to be cut, knocked down, or otherwise brought down in a way that would fragment a forested connection (e.g., tree line) between two or more forest patches of at least 5 acres?

The forest patches may consist of entirely contiguous forest or multiple forested areas that are separated by less than 1000' of non-forested area. A project will fragment a forested connection if it creates an unforested gap of greater than 1000'.

No

28. Will the action result in the use of prescribed fire?

No

29. Will the action cause noises that are louder than ambient baseline noises within the action area?

No

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

.1

Will all potential northern long-eared bat (NLEB) roost trees (trees ≥ 3 inches diameter at breast height, dbh) be cut, knocked, or brought down from any portion of the action area greater than or equal to 0.1 acre? If all NLEB roost trees will be removed from multiple areas, select 'Yes' if the cumulative extent of those areas meets or exceeds 0.1 acre.

Yes

Enter the extent of the action area (in acres) from which all potential NLEB roost trees will be removed. If all NLEB roost trees will be removed from multiple areas, entire the total extent of those areas. Round up to the nearest tenth of an acre.

.1

For the area from which all potential northern long-eared bat (NLEB) roost trees will be removed, on how many acres (round to the nearest tenth of an acre) will trees be allowed to regrow? Enter '0' if the entire area from which all potential NLEB roost trees are removed will be developed or otherwise converted to non-forest for the foreseeable future.

0

Will any snags (standing dead trees) ≥ 3 inches dbh be left standing in the area(s) in which all northern long-eared bat roost trees will be cut, knocked down, or otherwise brought down?

No

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Neil Hansen
Address: 177 Corporate Drive
City: Portsmouth
State: NH
Zip: 03801
Email: nahansen@tighebond.com
Phone: 6034338818



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To:
Project code: 2024-0043341
Project Name: 53 Green St. Mixed Used Development

January 31, 2024

Federal Nexus: no
Federal Action Agency (if applicable):

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for '53 Green St. Mixed Used Development'

Dear Neil Hansen:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on January 31, 2024, for “53 Green St. Mixed Used Development” (here forward, Project). This project has been assigned Project Code 2024-0043341 and all future correspondence should clearly reference this number.

The Service developed the IPaC system and associated species’ determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northeast Determination Key (DKey), invalidates this letter. **Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.**

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no further consultation with, or concurrence from, the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical

habitat, formal consultation is required (except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Roseate Tern (<i>Sterna dougallii dougallii</i>)	Endangered	No effect

Conclusion If there are no updates on listed species, no further consultation/coordination for this project is required for the species identified above. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project implements any changes which are final or commits additional resources.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly *Danaus plexippus* Candidate
- Northern Long-eared Bat *Myotis septentrionalis* Endangered

To complete consultation for species that have reached a "May Affect" determination and/or species may occur in your project area and are not covered by this conclusion, please visit the "New England Field Office Endangered Species Project Review and Consultation" website for step-by-step instructions on how to consider effects on these listed species and/or critical habitats, avoid and minimize potential adverse effects, and prepare and submit a project review package if necessary: <https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review>

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the New England Ecological Services Field Office and reference the Project Code associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

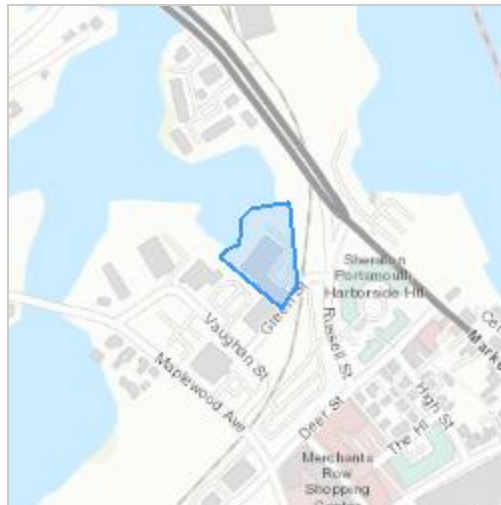
53 Green St. Mixed Used Development

2. Description

The following description was provided for the project '53 Green St. Mixed Used Development':

Construction of mixed use building including 45 residential units, commercial space, and garage parking.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.08025755,-70.76203626179766,14z>



QUALIFICATION INTERVIEW

1. As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer questions truthfully?

Yes

2. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

Note: This question could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered, or proposed species.

No

3. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

No

4. Will the proposed project involve the use of herbicide where listed species are present?

No

5. Are there any caves or anthropogenic features suitable for hibernating or roosting bats within the area expected to be impacted by the project?

No

6. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **birds** (e.g., plane-based surveys, land-based or offshore wind turbines, communication towers, high voltage transmission lines, any type of towers with or without guy wires)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

7. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **bats** (e.g., plane-based surveys, land-based or offshore wind turbines)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

8. Will the proposed project result in permanent changes to water quantity in a stream or temporary changes that would be sufficient to result in impacts to listed species?

For example, will the proposed project include any activities that would alter stream flow, such as water withdrawal, hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines? Projects that include temporary and limited water reductions that will not displace listed species or appreciably change water availability for listed species (e.g. listed species will experience no changes to feeding, breeding or sheltering) can answer "No". Note: This question refers only to the amount of water present in a stream, other water quality factors, including sedimentation and turbidity, will be addressed in following questions.

No

9. Will the proposed project affect wetlands where listed species are present?

This includes, for example, project activities within wetlands, project activities within 300 feet of wetlands that may have impacts on wetlands, water withdrawals and/or discharge of contaminants (even with a NPDES).

No

10. Will the proposed project activities (including upland project activities) occur within 0.5 miles of the water's edge of a stream or tributary of a stream where listed species may be present?

Yes

11. Will the proposed project directly affect a streambed (below ordinary high water mark (OHWM)) of the stream or tributary where listed species may be present?

No

12. Will the proposed project bore underneath (directional bore or horizontal directional drill) a stream where listed species may be present?

No

13. Will the proposed project involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds) where listed species may be present?

No

14. Will the proposed project involve the removal of excess sediment or debris, dredging or in-stream gravel mining where listed species may be present?

No

15. Will the proposed project involve the creation of a new water-borne contaminant source where listed species may be present?

Note New water-borne contaminant sources occur through improper storage, usage, or creation of chemicals. For example: leachate ponds and pits containing chemicals that are not NSF/ANSI 60 compliant have contaminated waterways. Sedimentation will be addressed in a separate question.

No

16. Will the proposed project involve perennial stream loss, in a stream or tributary of a stream where listed species may be present, that would require an individual permit under 404 of the Clean Water Act?

No

17. Will the proposed project involve blasting where listed species may be present?

No

18. Will the proposed project include activities that could negatively affect fish movement temporarily or permanently (including fish stocking, harvesting, or creation of barriers to fish passage).

No

19. Will the proposed project involve earth moving that could cause erosion and sedimentation, and/or contamination along a stream or tributary of a stream where listed species may be present?

Note: Answer "Yes" to this question if erosion and sediment control measures will be used to protect the stream.

No

20. Will earth moving activities result in sediment being introduced to streams or tributaries of streams where listed species may be present through activities such as, but not limited to, valley fills, large-scale vegetation removal, and/or change in site topography?

No

21. Will the proposed project involve vegetation removal within 200 feet of a perennial stream bank where aquatic listed species may be present?

No

22. Will erosion and sedimentation control Best Management Practices (BMPs) associated with applicable state and/or Federal permits, be applied to the project? If BMPs have been provided by and/or coordinated with and approved by the appropriate Ecological Services Field Office, answer "Yes" to this question.

Yes

23. Is the project being funded, lead, or managed in whole or in part by U.S Fish and Wildlife Restoration and Recovery Program (e.g., Partners, Coastal, Fisheries, Wildlife and Sport Fish Restoration, Refuges)?

No

24. Will the proposed project result in changes to beach dynamics that may modify formation of habitat over time?

Note: Examples of projects that result in changes to beach dynamics include 1) construction of offshore breakwaters and groins; 2) mining of sand from an updrift ebb tidal delta; 3) removing or adding beach sands; and 4) projects that stabilize dunes (including placement of sand fences or planting vegetation).

No

25. [Hidden Semantic] Is the project area located within the roseate tern AOI?

Automatically answered

Yes

26. If you have determined that the roseate tern is unlikely to occur within your project's action area or that your project is unlikely to have any potential effects on the roseate tern, you may wish to make a "no effect" determination for the roseate tern. Additional guidance on how to make this decision can be found in the project review section of your local Ecological Services Field Office's website. CBFO: <https://www.fws.gov/office/chesapeake-bay-ecological-services/project-review> ; MEFO: <https://www.fws.gov/office/maine-ecological-services> ; NJFO: <https://www.fws.gov/office/new-jersey-ecological-services/new-jersey-field-office-project-review-guide> ; NEFO: <https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review#Step5> ; WVFO: <https://www.fws.gov/office/west-virginia-ecological-services/project-planning>. If you are unsure, answer "No" and continue through the key.

Would you like to make a no effect determination for the roseate tern?

Yes

27. [Semantic] Does the project intersect the Virginia big-eared bat critical habitat?

Automatically answered

No

28. [Semantic] Does the project intersect the Indiana bat critical habitat?

Automatically answered

No

29. [Semantic] Does the project intersect the candy darter critical habitat?

Automatically answered

No

30. [Semantic] Does the project intersect the diamond darter critical habitat?

Automatically answered

No

31. [Semantic] Does the project intersect the Big Sandy crayfish critical habitat?

Automatically answered

No

32. [Hidden Semantic] Does the project intersect the Guyandotte River crayfish critical habitat?

Automatically answered

No

33. Do you have any other documents that you want to include with this submission?

No

PROJECT QUESTIONNAIRE

1. Approximately how many acres of trees would the proposed project remove?
.1
2. Approximately how many total acres of disturbance are within the disturbance/
construction limits of the proposed project?
2
3. Briefly describe the habitat within the construction/disturbance limits of the project site.
Previously disturb commercial site, with lawn up to HOTL

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Neil Hansen
Address: 177 Corporate Drive
City: Portsmouth
State: NH
Zip: 03801
Email: nahansen@tighebond.com
Phone: 6034338818

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

MAY 24 2021

DHR Use Only

R&C #

12780

Log In Date

5/24/21

Response Date

6/4/21

Sent Date

6/7/21

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 Proposed Mixed Use Development

Project Location 53 Green Street

City/Town Portsmouth Tax Map 119 Lot # 2

NH State Plane - Feet Geographic Coordinates: Easting 1225987 Northing 212767
(See RPR Instructions and R&C FAQs for guidance.)

Lead Federal Agency and Contact (if applicable) N/A
(Agency providing funds, licenses, or permits)
Permit Type and Permit or Job Reference # N/A

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

APPLICANT INFORMATION

Applicant Name CPI Management, c/o Rob Simmons

Mailing Address 100 Summer Street, Suite 1600 Phone Number 617-742-6000

City Boston State MA Zip 02110 Email robs@cathartes.com

CONTACT PERSON TO RECEIVE RESPONSE

Name/Company Alexander Sellar

Mailing Address 177 Corporate Drive Phone Number 603-433-8818

City Portsmouth State NH Zip 03801 Email asellar@tighebond.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.labash@dncr.nh.gov or 603.271.3558.

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION

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 04/01/2021.

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): 101 yrs

- 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: Neil Muel, DS #PD Date: 6/4/21

SHORELAND PERMIT APPLICATION WORKSHEET

You must include this worksheet with every shoreland permit application. Include a separate worksheet for each individual lot of record where impacts are proposed.

In this worksheet, “pre-construction” impervious surface area³ means all human-made impervious surfaces⁴ currently present within the protected shoreland of a lot, whether to be removed or to remain after the project is completed. “Post-construction” impervious area means all impervious surfaces that will exist within the protected shoreland of a lot upon completion of the project, including both new and any remaining pre-construction impervious surfaces. All answers must be in square feet.

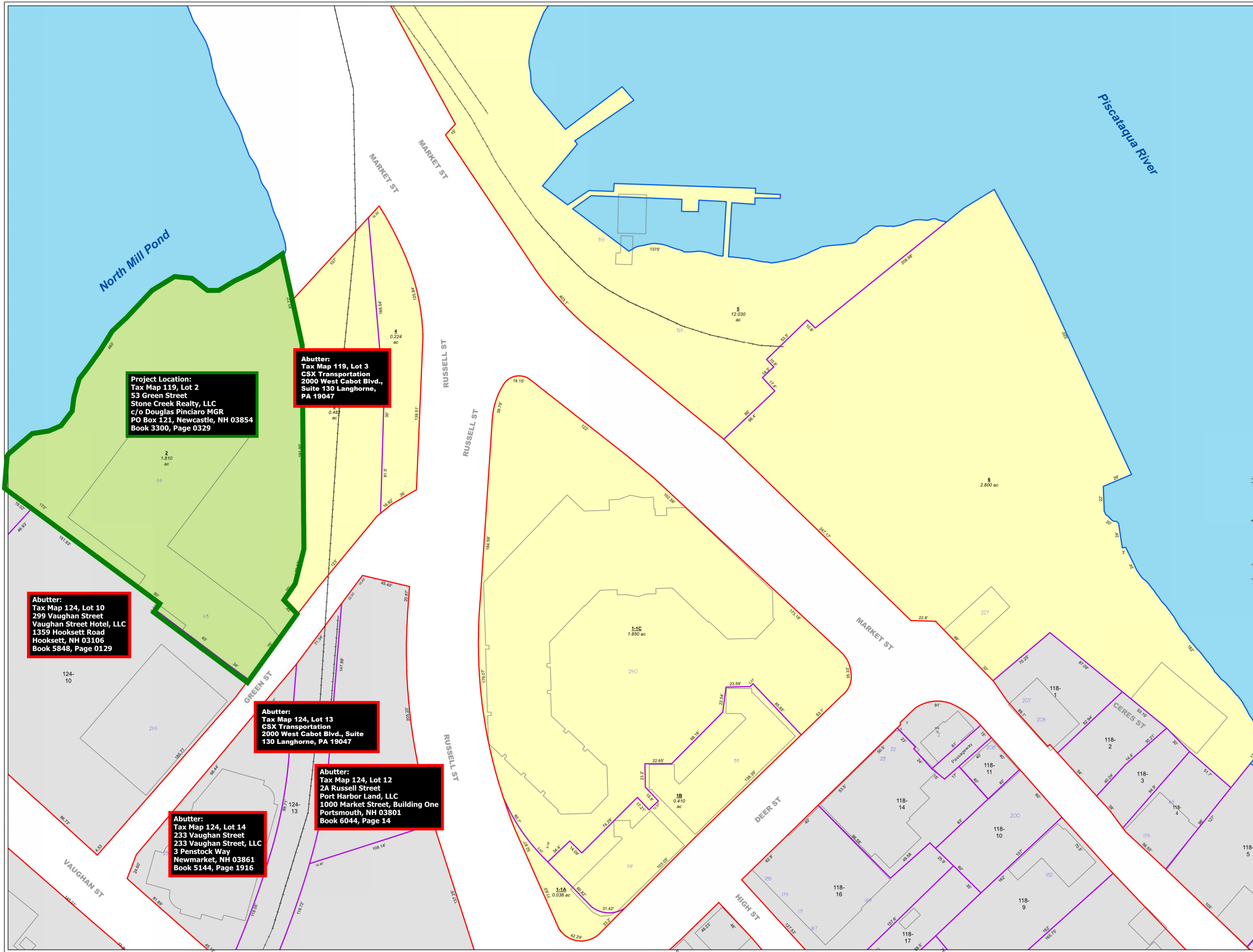
Calculating Impervious Area

CALCULATING THE IMPERVIOUS AREA OF A LOT WITHIN 250 FEET OF THE REFERENCE LINE (Env-Wq 1406.12)			
	STRUCTURE DESCRIPTION	PRE-CONSTRUCTION IMPERVIOUS AREAS	POST-CONSTRUCTION IMPERVIOUS AREAS
PRIMARY STRUCTURE(S) House and all attached decks and porches.		FT ²	FT ²
ACCESSORY STRUCTURES All other impervious surfaces excluding lawn furniture, well heads, and fences. Common accessory structures may include driveways, walkways, patios and sheds.		FT ²	FT ²
		FT ²	FT ²
		FT ²	FT ²
		FT ²	FT ²
		FT ²	FT ²
TOTAL:		(A) FT ² 41,206	(B) FT ²
Area of the lot located within 250 feet of reference line:			(C) FT ²
Percentage of lot covered by pre-construction impervious area within 250 feet of the reference line: <i>[divide (A) by (C) x 100]</i>			(D) %
Percentage of lot to be covered by post-construction impervious area within 250 feet of the reference line upon completion of the project: <i>[divide (B) by (C) x 100]</i>			(E) %

³ “**Impervious surface area**” as defined in Env-Wq 1402.13 means, for purposes of the impervious surface limitation specified in RSA 483-B:9, V(g), the total footprint of each impervious surface that is located within the protected shoreland.

⁴ “**Impervious surface**” as defined in RSA 483-B:4, VII-b means any modified surface that cannot effectively absorb or infiltrate water. Examples may include roofs, and unless designed to effectively absorb or infiltrate water, decks, patios, and paved, gravel, or crushed stone driveways, parking areas, and walkways.

APPENDIX C



Project Location:
 Tax Map 119, Lot 2
 53 Green Street
 Stone Creek Realty, LLC
 c/o Douglas Pinciaro MGR
 PO Box 121, Newcastle, NH 03854
 Book 3300, Page 0329

Abutter:
 Tax Map 119, Lot 3
 CSX Transportation
 2000 West Cabot Blvd.,
 Suite 130 Langhorne,
 PA 19047

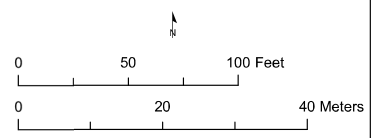
Abutter:
 Tax Map 124, Lot 10
 295 Vaughan Street
 Vaughan Street Hotel, LLC
 1359 Hooksett Road
 Hooksett, NH 03106
 Book 5848, Page 0129

Abutter:
 Tax Map 124, Lot 13
 CSX Transportation
 2000 West Cabot Blvd., Suite
 130 Langhorne, PA 19047

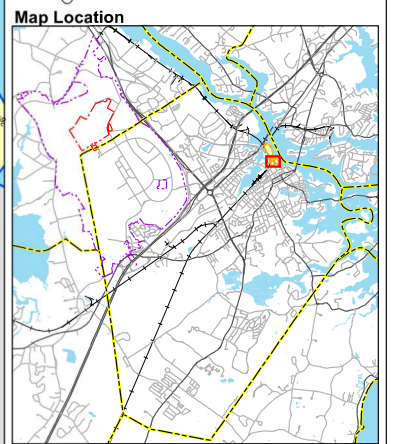
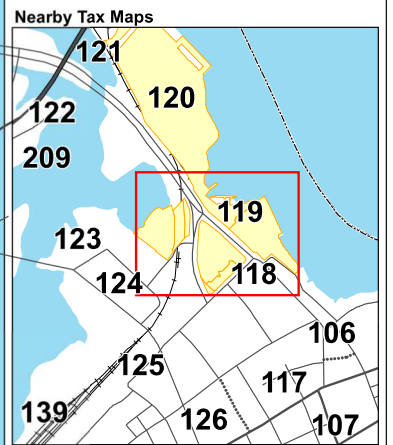
Abutter:
 Tax Map 124, Lot 12
 2A Russell Street
 Port Harbor Land, LLC
 1000 Market Street, Building One
 Portsmouth, NH 03801
 Book 6044, Page 14

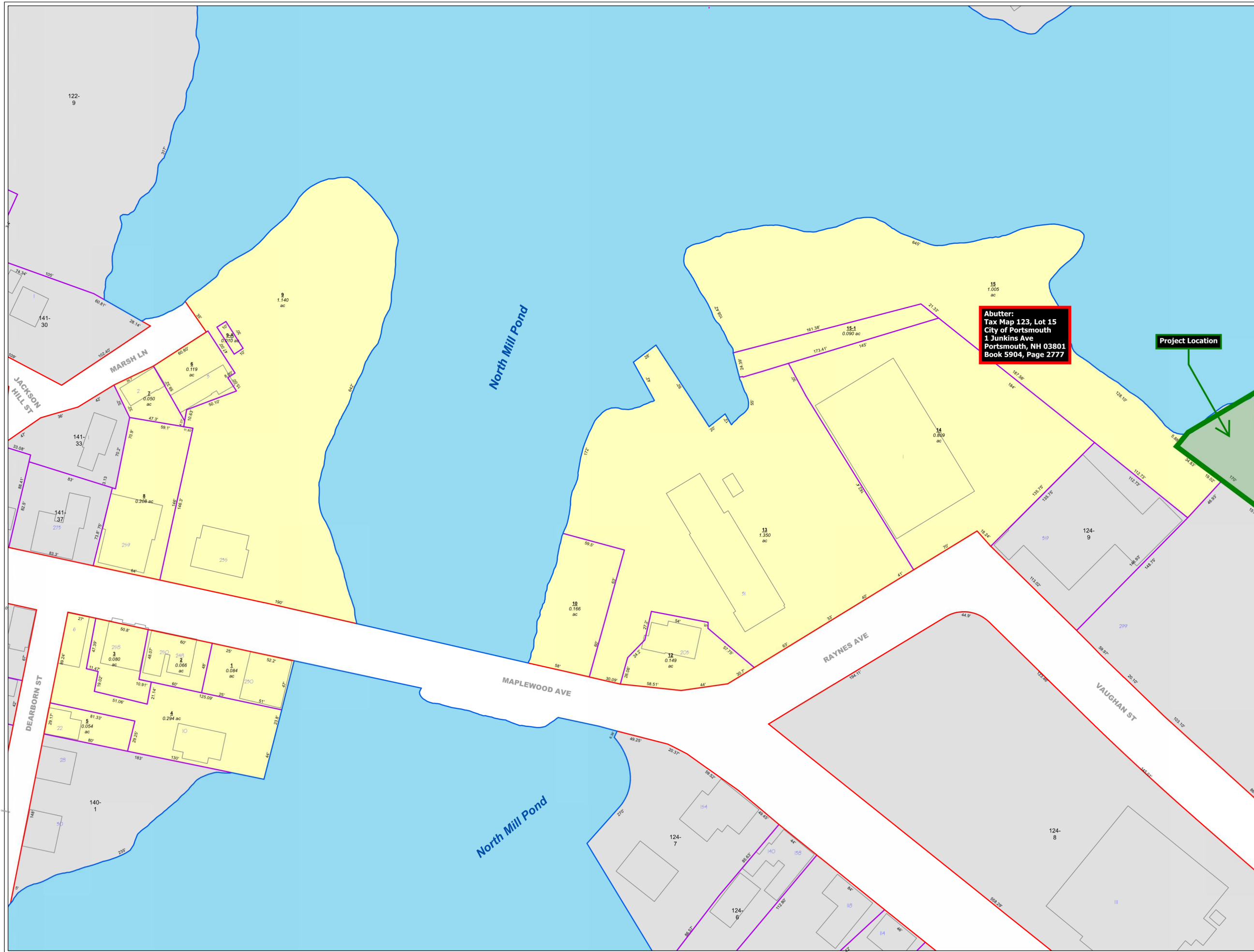
Abutter:
 Tax Map 124, Lot 14
 233 Vaughan Street
 233 Vaughan Street, LLC
 3 Penstock Way
 Newmarket, NH 03861
 Book 5144, Page 1916

- 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)
 - 25 Address number
 - 233-137 Parcel number from a neighboring map
 - 68' 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.





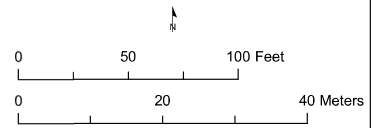
Abutter:
 Tax Map 123, Lot 15
 City of Portsmouth
 1 Junkins Ave
 Portsmouth, NH 03801
 Book 5904, Page 2777

Project Location

Partial Legend

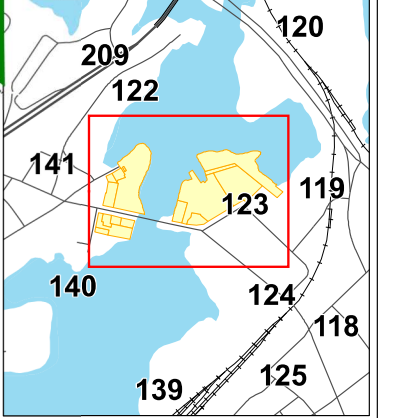
See the cover sheet for the complete legend.

- 7-5A** Lot or lot-unit number
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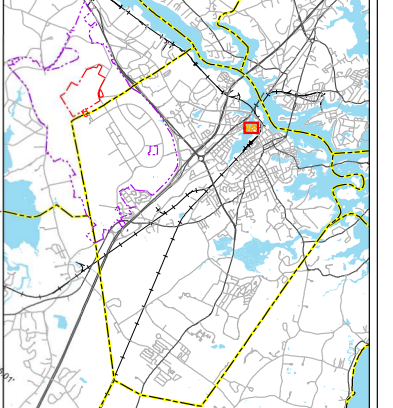


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Nearby Tax Maps



Map Location



Portsmouth, New Hampshire
 2019

Tax Map 123

PUBLIC NOTICE
NOTICE OF INTENT TO FILE

Please take notice that CPI Management, LLC, applicant, is intending to file a Wetland Application – Standard Dredge and Fill Wetlands Permit Application with the New Hampshire Department of Environmental Services for a proposed mixed-use building at 53 Green Street in Portsmouth, New Hampshire.

The proposed project consists of the removal of the existing building and parking lot and the construction of a mixed-use building consisting of 48 residential units, a first-floor commercial space, a 2 level parking garage, and associated site improvements. These site improvements include the construction of a portion of the North Mill Pond Greenway multi-use public trail with access from Green Street.

The proposed project is located within the 100 FT upland tidal buffer zone (TBZ) for North Mill Pond. The TBZ is previously developed upland and currently consists of 11,581 SF of impervious area (parking lot & sidewalk).

The proposed condition will result in a reduction of 2,958 SF of impervious surface in the tidal buffer zone. In addition, the project proposes granting the city an easement for the North Mill Pond Greenway multi-use path for public access within the TBZ.

Plans and details of this application are on file, for your review, at the City of Portsmouth Clerk's Office, 1 Junkins Avenue, Portsmouth, New Hampshire (8:00am - 4:30pm) or at the NHDES Wetlands Bureau, 29 Hazen Drive, Concord, New Hampshire (8:00am - 4:00pm).

ABUTTERS' LIST

53 Green Street, Portsmouth, New Hampshire

Abutter 1:

Tax Map 119, Lot 3
CSX Transportation
2000 West Cabot Blvd., Ste 130
Langhorne, PA 19047

Abutter 2:

Tax Map 124, Lot 12
2A Russell Street
Port Harbor Land, LLC
1000 Market Street
Building One
Portsmouth, NH 03801

Abutter 3:

Tax Map 124, Lot 13
CSX Transportation
2000 West Cabot Blvd., Ste 130
Langhorne, PA 19047

Abutter 4:

Tax Map 124, Lot 14
233 Vaughan Street
233 Vaughan Street, LLC
3 Penstock Way
Newmarket, NH 03861

Abutter 5:

Tax Map 124, Lot 10
299 Vaughan Street
Vaughan Street Hotel, LLC
1359 Hooksett Road
Hooksett, NH 03106

Abutter 6:

Tax Map 123, Lot 15
City of Portsmouth
1 Junkins Avenue
Portsmouth, NH 03801



Firm Mailing Book For Accountable Mail

Name and Address of Sender

- Check type of mail or service
- Adult Signature Required
 - Adult Signature Restricted Delivery
 - Certified Mail
 - Certified Mail Restricted Delivery
 - Collect on Delivery (COD)
 - Insured Mail
 - Priority Mail
 - Priority Mail Express
 - Registered Mail
 - Return Receipt for Merchandise
 - Signature Confirmation
 - Signature Confirmation Restricted Delivery

Affix Stamp Here
(for additional copies of this receipt).
Postmark with Date of Receipt.

stamps.com

\$11.700

US POSTAGE
FIRST-CLASS
06250006911343
FROM 03801

BB6725.01

USPS Tracking/Article Number

1.

2.

3.

4.

5.

6.

7.

8.

Tax Map 119, Lot 3
CSX Transportation
2000 West Cabot Blvd., Ste 130
Langhorne, PA 19047

Tax Map 124, Lot 12
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1 Junkins Avenue
Portsmouth, NH 03801

Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee	
		Handling Charge - If Registered and over \$50,000 in value											
				C-0960-011									
				E. Ommundsen on behalf of C. Krzcuik									
				6 Total									
				6 x \$0.64 = \$3.84									
				6 x \$1.95 = \$11.70									
				TOTAL \$15.54									
						Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation	Signature Confirmation Restricted Delivery	Special Handling	

Total Number of Pieces Listed by Sender

Total Number of Pieces Received at Post Office

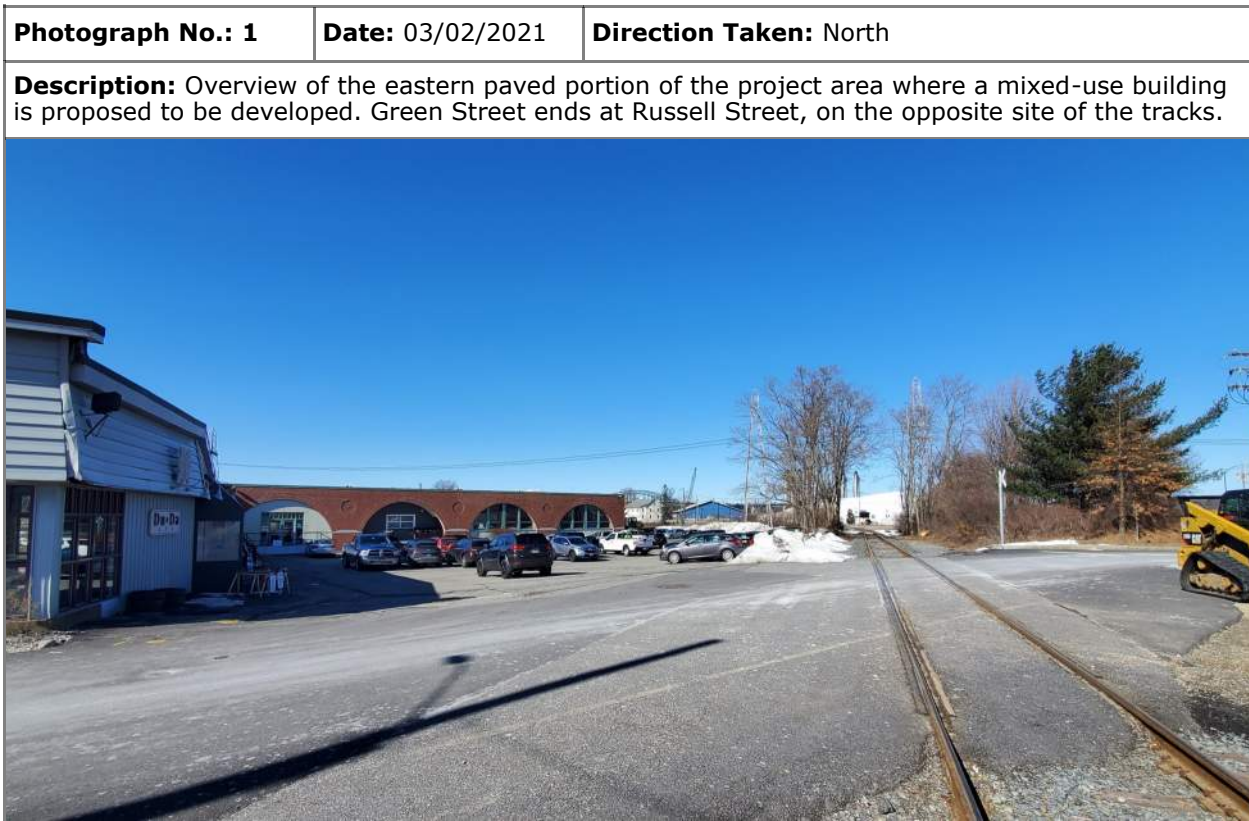
Postmaster, For private or receiving employee,

Photographic Log

Client: Cathartes Group

Job Number: C0960-011

Site: Proposed Multi-Family Development, 53 Green Street, Portsmouth, New Hampshire



Client: Cathartes Group

Job Number: C0960-011

Site: Proposed Multi-Family Development, 53 Green Street, Portsmouth, New Hampshire

Photograph No.: 3	Date: 03/02/2021	Direction Taken: South
Description: Overview of the very limited and discontinuous portion of disturbed forested habitat present along the eastern property line and the railroad tracks.		
		

Photograph No.: 4	Date: 03/02/2021	Direction Taken: Northwest
Description: Overview of the very small and discontinuous portion of disturbed shrub thicket habitat and utility tower present within the northernmost portion of the property.		
		

Photographic Log

Client: Cathartes Group

Job Number: C0960-011

Site: Proposed Multi-Family Development, 53 Green Street, Portsmouth, New Hampshire




Photographic Log

Client: Cathartes Group

Job Number: C0960-011

Site: Proposed Multi-Family Development, 53 Green Street, Portsmouth, New Hampshire

Photograph No.: 7	Date: 03/02/2021	Direction Taken: Northeast
Description: Along the northwestern edge of the project area lies North Mill Pond. Little to no wildlife food or habitat sources were observed along this border of the property.		
		

Photograph No.: 8	Date: 03/02/2021	Direction Taken: North-northeast
Description: All grassy vegetation along the northwestern side of the existing structures is heavily managed and mowed lawn, providing no suitable value to any protected wildlife species.		
		

Photographic Log

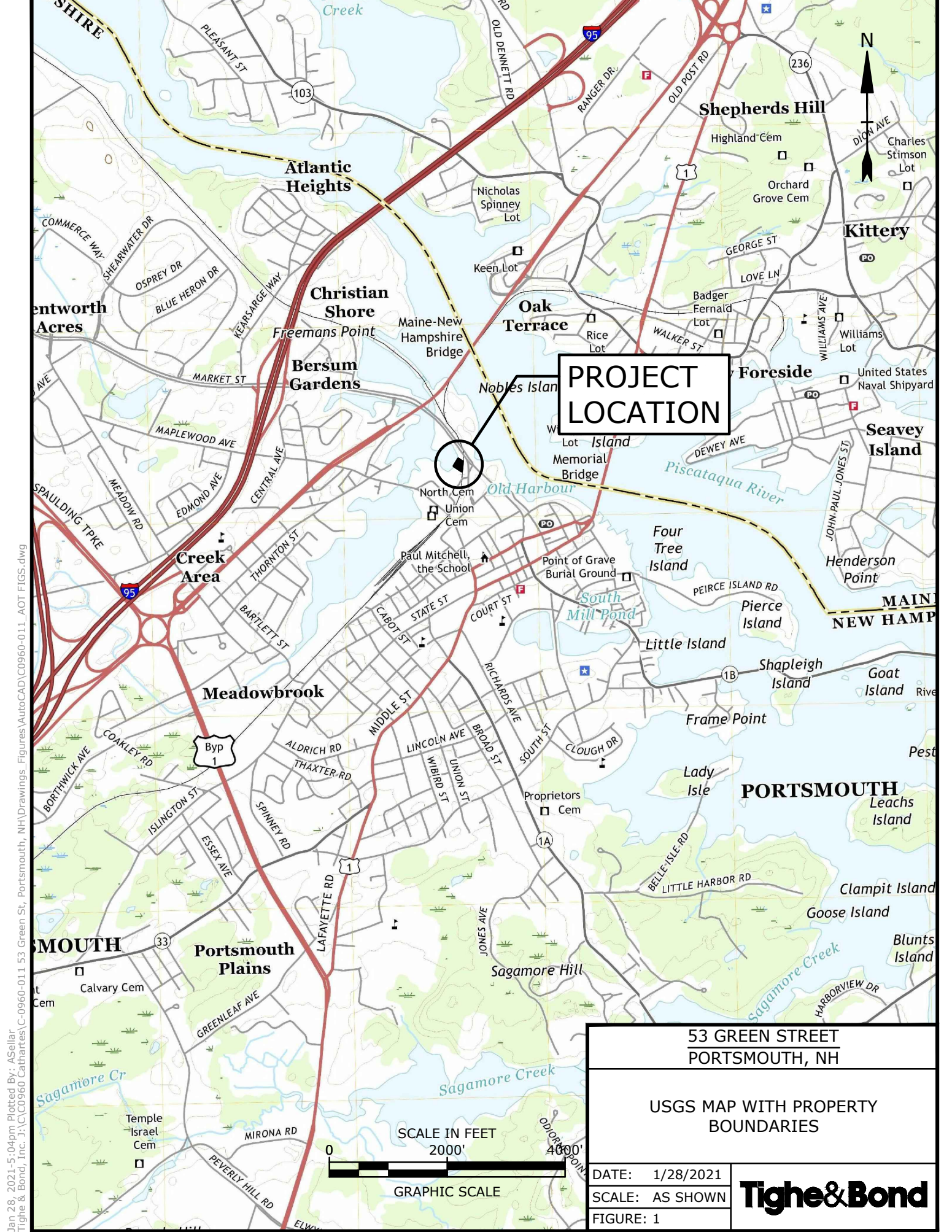
Client: Cathartes Group

Job Number: C0960-011

Site: Proposed Multi-Family Development, 53 Green Street, Portsmouth, New Hampshire

Photograph No.: 9	Date: 03/02/2021	Direction Taken: Southeast
Description: Overview of the very limited and discontinuous portion of disturbed forested habitat present within the western corner of the subject property. Several small brush piles were observed.		
		

Photograph No.: 10	Date: 03/02/2021	Direction Taken: Northwest
Description: Some limited herbaceous and shrub vegetation is present in the narrow strip of land between the existing commercial building to be replaced and the AC Hotel next door to the south.		
		



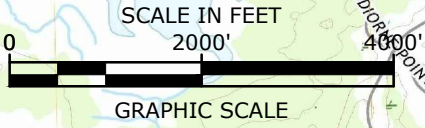
**PROJECT
LOCATION**

53 GREEN STREET
PORTSMOUTH, NH

USGS MAP WITH PROPERTY
BOUNDARIES

DATE: 1/28/2021
SCALE: AS SHOWN
FIGURE: 1

Tighe & Bond



Jan 28, 2021 - 5:04pm Plotted BY: ASellar
Tighe & Bond, Inc. J:\C\0960 Cathartes\C-0960-011 53 Green St, Portsmouth, NH\Drawings, Figures\AutoCAD\C0960-011_AOT FIGS.dwg

QUITCLAIM DEED

KNOW ALL MEN BY THESE PRESENTS

THAT I, Roy D. Peterson, d/b/a Denco Realty Co., a married man, of Portsmouth, County of Rockingham, State of New Hampshire, for consideration paid, grant to Roy D. Peterson, Trustee of the Roy D. Peterson Revocable Trust U/T/A dated March 21, 1996, as amended, of 6 Rockaway Street, Portsmouth, County of Rockingham, State of New Hampshire, with QUITCLAIM COVENANTS, the following described real estate:

SEE SCHEDULE A ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE

This is not homestead property of the Grantor.

WITNESS my hand and seal this 22nd day of May, 1997.

WITNESS:

Gertrude Oakland

Gertrude Oakland

Roy D. Peterson

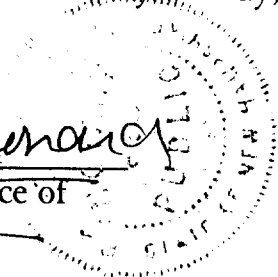
Roy D. Peterson

STATE OF NEW HAMPSHIRE
COUNTY OF ROCKINGHAM, SS

The foregoing instrument was acknowledged before me this 22nd day of May, 1997 by Roy D. Peterson.


Paula Leonard

Notary Public/Justice of
the Peace



STATE OF NEW HAMPSHIRE

DEPARTMENT OF REVENUE ADMINISTRATION



REAL ESTATE TRANSFER TAX

XX THOUSAND XX HUNDRED AND 40 DOLLARS

NO. 061298	297001	AMOUNT \$40.00
------------	--------	----------------

VOID IF ALTERED

JUN 12 10 48 AM '98

0037554

ROCKINGHAM COUNTY
REGISTRY OF DEEDS

Paula Leonard, Notary Public
My Commission Expires Oct. 18, 2000

SCHEDULE A

The following described parcels of land, with the buildings thereon and the contents therein, situated on Green Street, Portsmouth, Rockingham County, New Hampshire, bounded and described as follows:

No. 1 SOUTHWESTERLY by land formerly of George Scott and land of now or formerly of Freeman R. Garrett;

NORTHWESTERLY by the Piscataqua River;

NORTHEASTERLY by land formerly of the Boston and Maine Railroad and land formerly of George W. Pendexter

SOUTHEASTERLY by said land formerly of Pendexter and said Green Street

With the wharf and wharf privileges thereto belonging.

No. 2 Beginning in the northwesterly sideline of Green Street and the southwest corner of the premises herein conveyed and Six (6) inches northeasterly from the northeast corner of the old dwelling-house on land formerly of Sugden Brothers (formerly owned by Freeman R. Garrett), and thence running by said Green Street northeasterly twenty-four feet Six inches (24' 6") more or less to land formerly of Silas Peirce & Company, Limited (formerly owned by Daniel Littlefield); thence turning and running about northwesterly by said land of said Company Seventy-six (76) feet, more or less, to a point; thence turning and running southwesterly by said land of said Company Eighteen feet Four inches (18' 4"), more or less, to a point; thence turning and running northwesterly by the southwesterly side line of the buildings on said land of said Company and a continuation of said side line to the Piscataqua River; thence turning and running southwesterly by said River six (6) inches to a point; thence turning and running southeasterly by a line parallel to and Six (6) inches distant from the aforesaid side line and continuation of the same to a point Seventy (70) feet distant northwesterly from the northwesterly side line of said Green Street; thence turning and running southwesterly by land formerly of said Sugden Brothers (formerly of James W. Scott) Seven feet Two inches (7' 2"), more or less, to other land formerly of said Sugden Brothers (formerly of Freeman R. Garrett); thence turning and running southeasterly by said land formerly of said Sugden Brothers Seventy (70) feet, more or less, to point begun at.

No. 3 A certain parcel of land known as 63 Green Street (formerly known as 15 Green Street) bounded and described as follows:

SOUTHERLY on Green Street;

EASTERLY by land formerly of the Boston & Main Railroad;

NORTHERLY by land formerly of Silas Peirce & Company, Limited; and

WESTERLY by land formerly of said Silas Peirce & Company Limited, or a right of way over the same as now exists from said Green Street to the rear of said premises.

Together with such rights of way as have been used in connection with the premises or are appurtenant to the premises either by grant or use.

No. 4 A certain piece or parcel of land situated in Portsmouth, in the County of Rockingham and State of New Hampshire, bounded and described as follows:

Beginning on remaining land of the Boston and Maine Railroad and at land now or formerly of George D. Emerson Company at a point North $51^{\circ} 20'$ West fifty-five and ninety hundredths (55.90) feet from Station 3013+61.70 on the center line of the Eastbound main track of the Portland Division route of said Railroad, thence running North $51^{\circ} 20'$ West by land now or formerly of George D. Emerson Co. one hundred fifty-eight and sixty hundredths (158.60) feet to land called "Parcel No. 2" and shown upon plan hereinafter mentioned; thence turning and running by said last mentioned land on three (3) courses as follows: North $38^{\circ} 40'$ East thirty-one and thirty hundredths (31.30) feet, South $51^{\circ} 20'$ East fourteen (14) feet, and North $25^{\circ} 57' 30''$ East seventy-five and eleven hundredths (75.11) feet to a point; thence turning and running North $38^{\circ} 47'$ West partly by said last mentioned land and partly by the Piscataqua River, so-called, one hundred thirty-seven and forty-nine hundredths (137.49) feet to a point; thence turning and running by said Piscataqua River on three (3) courses as follows: North $33^{\circ} 52'$ West sixty-six and sixty-five hundredths (66.65) feet, North $56^{\circ} 08'$ East thirty-nine and fifty hundredths (39.50) feet, and South $41^{\circ} 44'$ East one hundred nineteen and seventy-four hundredths (119.74) feet to a point; thence turning and running North $67^{\circ} 48'$ East partly by said Piscataqua River and partly by remaining land of said Railroad sixty-four and forty-two hundredths (64.42) feet to a point; thence turning and running by said remaining land of said Railroad on three (3) courses as follows: South $12^{\circ} 43'$ East eighty-three and seventy-two hundredths (83.72) feet, South $00^{\circ} 06' 30''$ East one


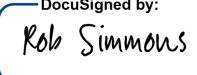
hundred ninety-one and ninety-five hundredths (191.95) feet, and South 14° 18' 30" East twenty-nine and twelve hundredths (29.12) feet to the point of beginning, be all of said measurements more or less, said parcel containing about twenty-nine thousand, five hundred sixty (29,560) square feet and being shown as PARCEL NO. 1 on plan marked "Land in Portsmouth, N.H. Boston and Maine Railroad to George D. Emerson Company J.F. Kerwin Engr. of Design June 1954", to which reference is hereby made for a further description of the premises hereby conveyed.

Subject to reservations and exceptions contained in deed of Boston & Maine Railroad to George D. Emerson Company dated November 30, 1954 and recorded in the Rockingham County Registry of Deeds in Book 1339, Page 298.

Meaning and intending to convey the same premises conveyed to the Grantor by Warranty Deed of George D. Emerson Company dated July 24, 1970 and recorded in the Rockingham County Registry of Deeds in Book 2026, Page 101.


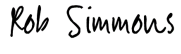
Owner's Letter of Authorization

This letter is to authorize CPI Management, LLC (Applicant) to represent the interest of Stone Creek Realty, LLC (owner) in all site design and permitting matters for the proposed development project located at 53 Green Street in Portsmouth, New Hampshire on parcels of land identified as Tax Map 119 Lot 2. This authorization shall include any required signatures for local, state and federal permit applications.

<p>DocuSigned by:  <small>90CC2587C6A8450...</small> _____ Signature</p>	<p>Doug Pinciario _____ Print Name</p>	<p>1/11/2021 _____ Date</p>
<p>DocuSigned by:  <small>F303420CFE6043A...</small> _____ Witness</p>	<p>Rob Simmons _____ Print Name</p>	<p>1/11/2021 _____ Date</p>

Agent Letter of Authorization

I, Jeff Johnston, of CPI Management, LLC (Applicant) hereby give Tighe & Bond, Inc. (site/civil Engineer) permission to be my agent in all site design and permitting matters for the proposed development project located at 53 Green Street in Portsmouth, New Hampshire on the parcel of land identified as Tax Map 119 Lot 2. This authorization shall include any required signatures for local, state and federal permit applications.

<p>DocuSigned by:  <small>6C8D9F63B0DA4C0...</small></p> <hr/> <p style="text-align: center;">Signature</p>	<p style="text-align: center;">Jeff Johnston</p> <hr/> <p style="text-align: center;">Print Name</p>	<p style="text-align: center;">1/11/2021</p> <hr/> <p style="text-align: center;">Date</p>
<p>DocuSigned by:  <small>F303420CFE6043A...</small></p> <hr/> <p style="text-align: center;">Witness</p>	<p style="text-align: center;">Rob Simmons</p> <hr/> <p style="text-align: center;">Print Name</p>	<p style="text-align: center;">1/11/2021</p> <hr/> <p style="text-align: center;">Date</p>

New Hampshire Natural Heritage Bureau NHB DataCheck Results Letter

To: Neil Hansen
177 Corporate Drive
Portsmouth, NH 03801

From: NH Natural Heritage Bureau

Date: 1/30/2024 (This letter is valid through 1/30/2025)

Re: Review by NH Natural Heritage Bureau of request dated 1/30/2024

Permit Types: Shoreland Standard Permit
Wetland Standard Dredge & Fill - Major
Stormwater Pollution Prevention

NHB ID: NHB24-0306

Applicant: Neil Hansen

Location: Portsmouth
Tax Map: 119, Tax Lot: 2
Address: 53 Green Street

Proj. Description: The re-development of an existing property into a new proposed mixed-use development.

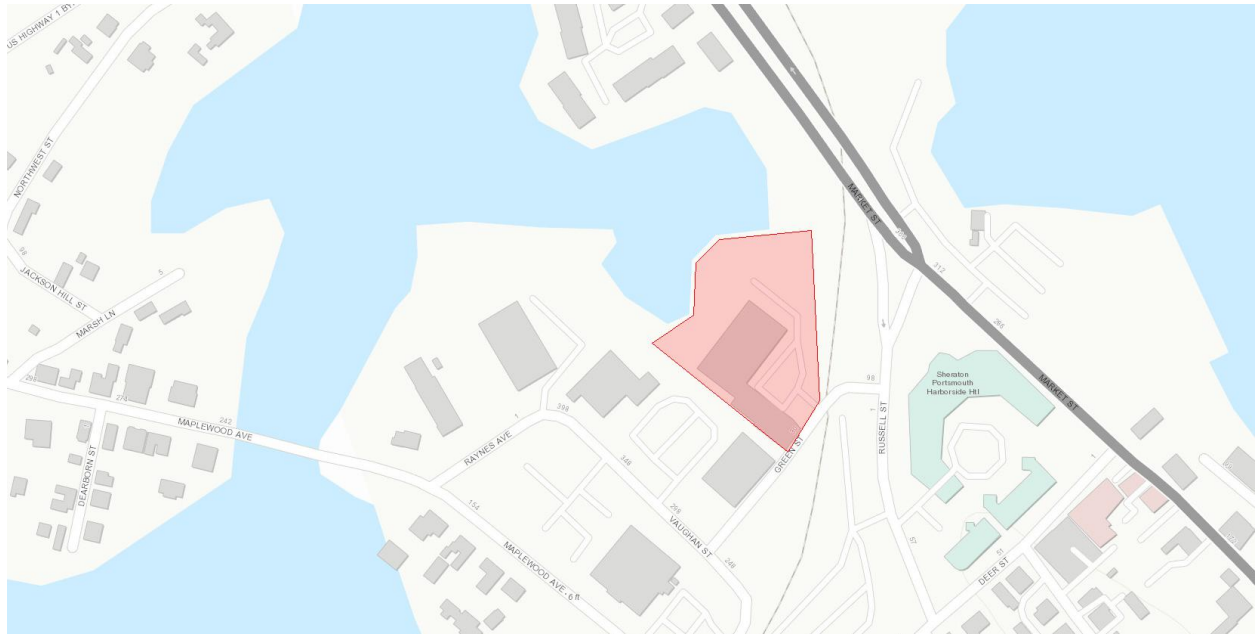
The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded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

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

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

New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter

MAP OF PROJECT BOUNDARIES FOR: NHB24-0306



APPENDIX D



WETLANDS FUNCTIONAL ASSESSMENT WORKSHEET

Water Division/Land Resource Management
Wetlands Bureau



[Check the Status of your Application](#)

RSA/Rule: RSA 482-A / Env-Wt 311.03(b)(10); Env-Wt 311.10

APPLICANT LAST NAME, FIRST NAME, M.I.: **CPI Management, LLC**

As required by Env-Wt 311.03(b)(10), an application for a standard permit for minor and major projects must include a functional assessment of all wetlands on the project site as specified in Env-Wt 311.10. This worksheet will help you compile data for the functional assessment needed to meet federal (US Army Corps of Engineers (USACE); if applicable) and NHDES requirements. Additional requirements are needed for projects in tidal area; please refer to the [Coastal Area Worksheet \(NHDES-W-06-079\)](#) for more information.

Both a desktop review and a field examination are needed to accurately determine surrounding land use, hydrology, hydroperiod, hydric soils, vegetation, structural complexity of wetland classes, hydrologic connections between wetlands or stream systems or wetland complex, position in the landscape, and physical characteristics of wetlands and associated surface waters. The results of the evaluation are to be used to select the location of the proposed project having the least impact to wetland functions and values (Env-Wt 311.10). This worksheet can be used in conjunction with the [Avoidance and Minimization Written Narrative \(NHDES-W-06-089\)](#) and the [Avoidance and Minimization Checklist \(NHDES-W-06-050\)](#) to address Env-Wt 313.03 (Avoidance and Minimization). If more than one wetland/ stream resource is identified, multiple worksheets can be attached to the application. All wetland, vernal pools, and stream identification (ID) numbers are to be displayed and located on the wetlands delineation of the subject property.

SECTION 1 - LOCATION (USACE HIGHWAY METHODOLOGY)	
ADJACENT LAND USE: Commercial buildings with lawns and parking lots	
CONTIGUOUS UNDEVELOPED BUFFER ZONE PRESENT? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
DISTANCE TO NEAREST ROADWAY OR OTHER DEVELOPMENT (in feet): 45 ft	
SECTION 2 - DELINEATION (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)	
CERTIFIED WETLAND SCIENTIST (if in a non-tidal area) or QUALIFIED COASTAL PROFESSIONAL (if in a tidal area) who prepared this assessment: Leonard Lord, PhD, NHCWS #14	
DATE(S) OF SITE VISIT(S): October 29 & December 2, 2019	DELINEATION PER ENV-WT 406 COMPLETED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CONFIRM THAT THE EVALUATION IS BASED ON: <input checked="" type="checkbox"/> Office and <input checked="" type="checkbox"/> Field examination.	
METHOD USED FOR FUNCTIONAL ASSESSMENT (check one and fill in blank if "other"): <input checked="" type="checkbox"/> USACE Highway Methodology. <input checked="" type="checkbox"/> Other scientifically supported method (enter name/ title): NH Method, 2015("NHM" for Ecological Integrity Eval)	

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

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

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SECTION 3 - WETLAND RESOURCE SUMMARY (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)	
WETLAND ID: N/A	LOCATION: (LAT/ LONG) 43°04'50.3"N/70°45'43.3"W
WETLAND AREA: N/A	DOMINANT WETLAND SYSTEMS PRESENT: Rocky Shore, Mudflats
HOW MANY TRIBUTARIES CONTRIBUTE TO THE WETLAND? 0	COWARDIN CLASS: E2RS2N, E2US3N
IS THE WETLAND A SEPARATE HYDRAULIC SYSTEM? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No if not, where does the wetland lie in the drainage basin? █	IS THE WETLAND PART OF: <input type="checkbox"/> A wildlife corridor or <input type="checkbox"/> A habitat island?
IS THE WETLAND IN A 100-YEAR FLOODPLAIN? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	IS THE WETLAND HUMAN-MADE? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
ARE ANY WETLANDS PART OF A STREAM OR OPEN-WATER SYSTEM? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ARE VERNAL POOLS PRESENT? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, complete the Vernal Pool Table)
PROPOSED WETLAND IMPACT TYPE: Buffer only	ARE ANY PUBLIC OR PRIVATE WELLS DOWNSTREAM/ DOWNGRADIANT? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PROPOSED WETLAND IMPACT AREA: N/A	
SECTION 4 - WETLANDS FUNCTIONS AND VALUES (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)	
<p>The following table can be used to compile data on wetlands functions and values. The reference numbers indicated in the "Functions/ Values" column refer to the following functions and values:</p> <ol style="list-style-type: none"> 1. Ecological Integrity (from RSA 482-A:2, XI) 2. Educational Potential (from USACE Highway Methodology: Educational/Scientific Value) 3. Fish & Aquatic Life Habitat (from USACE Highway Methodology: Fish & Shellfish Habitat) 4. Flood Storage (from USACE Highway Methodology: Floodflow Alteration) 5. Groundwater Recharge (from USACE Highway Methodology: Groundwater Recharge/Discharge) 6. Noteworthiness (from USACE Highway Methodology: Threatened or Endangered Species Habitat) 7. Nutrient Trapping/Retention & Transformation (from USACE Highway Methodology: Nutrient Removal) 8. Production Export (Nutrient) (from USACE Highway Methodology) 9. Scenic Quality (from USACE Highway Methodology: Visual Quality/Aesthetics) 10. Sediment Trapping (from USACE Highway Methodology: Sediment /Toxicant Retention) 11. Shoreline Anchoring (from USACE Highway Methodology: Sediment/Shoreline Stabilization) 12. Uniqueness/Heritage (from USACE Highway Methodology) 13. Wetland-based Recreation (from USACE Highway Methodology: Recreation) 14. Wetland-dependent Wildlife Habitat (from USACE Highway Methodology: Wildlife Habitat) <p>First, determine if a wetland is suitable for a particular function and value ("Suitability" column) and indicate the rationale behind your determination ("Rationale" column). Please use the rationale reference numbers listed in Appendix A of USACE <i>The Highway Methodology Workbook Supplement</i>. Second, indicate which functions and values are principal ("Principal Function/value?" column). As described in <i>The Highway Methodology Workbook Supplement</i>, "functions and values can be principal if they are an important physical component of a wetland ecosystem (function only) and/or are considered of special value to society, from a local, regional, and/or national perspective". "Important Notes" are to include characteristics the evaluator used to determine the principal function and value of the wetland.</p>	

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FUNCTIONS/ VALUES	SUITABILITY (Y/N)	RATIONALE (Reference #)	PRINCIPAL FUNCTION/VALUE? (Y/N)	IMPORTANT NOTES
1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ecological Integrity (Scores from NHM): 1=1, 2=5, 3=10,4=10, 5=N/A, 6=10, 7=1, 8=1, 9=1, 10=1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Highly developed buffer, filling, impaired water quality
2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Education Potential: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No access
3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fish & Aquatic Life: 1, 4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Mudflat supports fish, shellfish, waterfowl. Impaired water quality and no shellfish harvesting
4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flood Storage: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Groundwater Recharge (only): N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Noteworthiness (RTE):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No rare species per NHB DataCheck
7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Nutrient Trapping/Retention: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Production Export: 1,4,5,6,10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Export of nutrients as food and in sediments but low ecological integrity
9	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Scenic Quality:2,6,8,	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Scenic vistas surrounded by highly developed areas.
10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sediment Trapping: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Shoreline Anchoring: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Rocky fill
12	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Uniqueness/Heritage: 1,3,14,17,19,22, 27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Contributes to the character of the area. Scenic views in urban setting. Low ecological integrity.
13	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wetland Based Recreation: 2,5,7,8,9,10,	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Provides boating and fishing opportunities. Somewhat offset by low ecological integrity.
14	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Dependent Wildlife: 8,12,18,21,	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Mudflats are important for wildlife habitat. Somewhat offset by low ecological integrity

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

www.des.nh.gov

53 Green Street, Portsmouth, NH: Wetland & Buffer Report

To: Patrick Crimmins, PE
FROM: Leonard A. Lord, PhD, CSS, CWS
DATE: January 6, 2020
PROJECT: P-0595-007

On October 29 and December 2, 2019, Tighe & Bond delineated and assessed tidal wetlands and their 100-foot buffers at 53 Green Street, Portsmouth, NH. This 1.66-acre parcel lies along the northwestern end of North Mill Pond.

Methods

The wetland delineation was based on criteria specified in the *Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1* (January 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (January 2012). The Highest Observable Tide Line (HOTL) was delineated based on the definition found in the NH Department of Environmental Services (NHDES) Wetland Rules, Env-Wt 101.49/Env-Wt 602.23. Wetlands were classified based on the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979). The only wetlands located on the parcel are tidal wetlands (HOTL), which were delineated with sequentially-numbered flagging labelled 1A-1 to 1A-19.

Important wetland functions and values were also assessed and summarized in the vicinity of the parcel. The assessment was based on the *Maine Citizens Guide to Evaluating, Restoring, and Managing Tidal Marshes* (Maine Audubon, 1997); *Method for Inventorying and Evaluating Wetlands In New Hampshire*, University of New Hampshire Cooperative Extension, 2015; and *The Highway Methodology Workbook Supplement—Wetland Functions and Values: A Descriptive Approach*, NAEEP-360-1-30a, US Army Corps of Engineers, New England Division, (September 1999).

Wetland

Wetlands on this site were classified as estuarine intertidal rocky shore, rubble, and regularly flooded (E2RS2N). The wetland edge slopes sharply and is predominantly covered with angular stones and cobbles. Sparse halophytic vegetation along the upper portion of the tidal wetland edge includes seaside plantain (*Plantago maritima*), sea lavender (*Limonium carolinianum*), salt meadow grass (*Spartina patens*), and seaside goldenrod (*Solidago sempervirens*). Lower portions of the slopes were covered with rockweed (*Ascophyllum nodosum*) within the intertidal zone. Important wetland functions and values in this portion of North Mill Pond include recreation potential and aesthetic quality, though both are impacted by the density and character of the surrounding urban development.

Tidal Buffer

The 100-foot tidal buffer on this parcel consists primarily of maintained lawn, a commercial building, and a parking lot. There are small patches of shrubby vegetation and small trees at

the tops of the slopes between the lawn and tidal wetlands, particularly near both ends of the wetland delineation. Species in these areas include black locust (*Robinia pseudoacacia*), eastern red cedar (*Juniperus virginiana*), staghorn sumac (*Rhus typhina*), and black cherry (*Prunus serotina*). The highly-developed tidal buffer provides some vegetated permeable surfaces to help reduce and filter runoff but otherwise does little to enhance and protect the downgradient tidal wetland.

\\tighebond.com\data\Data\Projects\C\C0960 Cathartes\C-0960-011 53 Green St, Portsmouth,
NH\Report_Evaluation\Applications\NHDES\Wetland\Functional Assessment\Green St Wetland-Buffer Rept- 2020-1-9.docx

Photographic Log

Client: CPI Management, LLC

Job Number: P-0595-007

Site: 53 Green Street, Portsmouth, NH

Photograph No.: 1	Date: 10/29/2019	Direction Taken: Northeast
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Description: Intertidal rocky shore and tidal buffer viewed from the southwest end of the site.

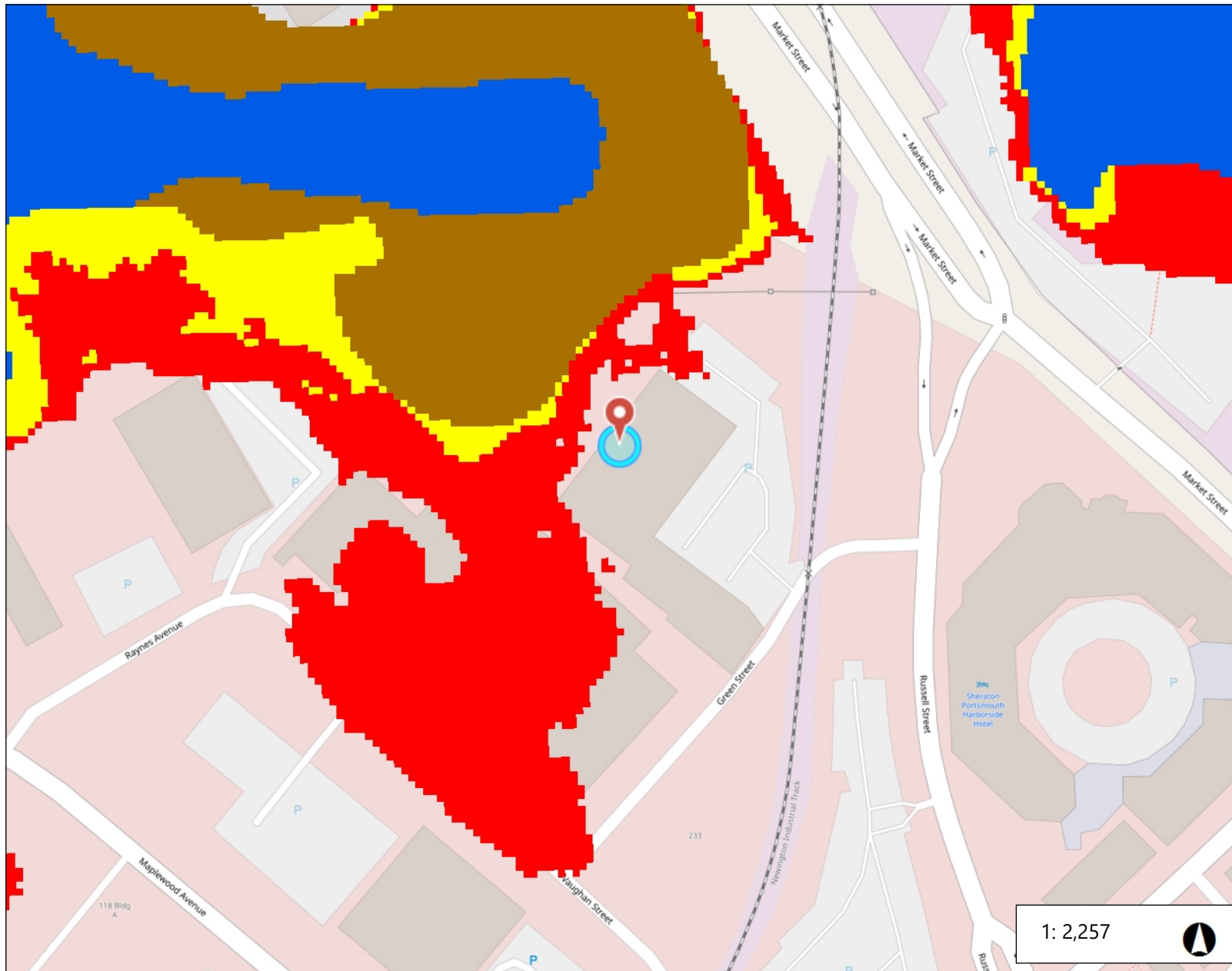


Photograph No.: 2	Date: 10/29/2019	Direction Taken: Northeast
--------------------------	-------------------------	-----------------------------------

Description: Intertidal rocky shore and narrow shrubby portion of the tidal buffer at the northeastern end of the site.



APPENDIX E



Legend

Predicted Marsh Migration 205

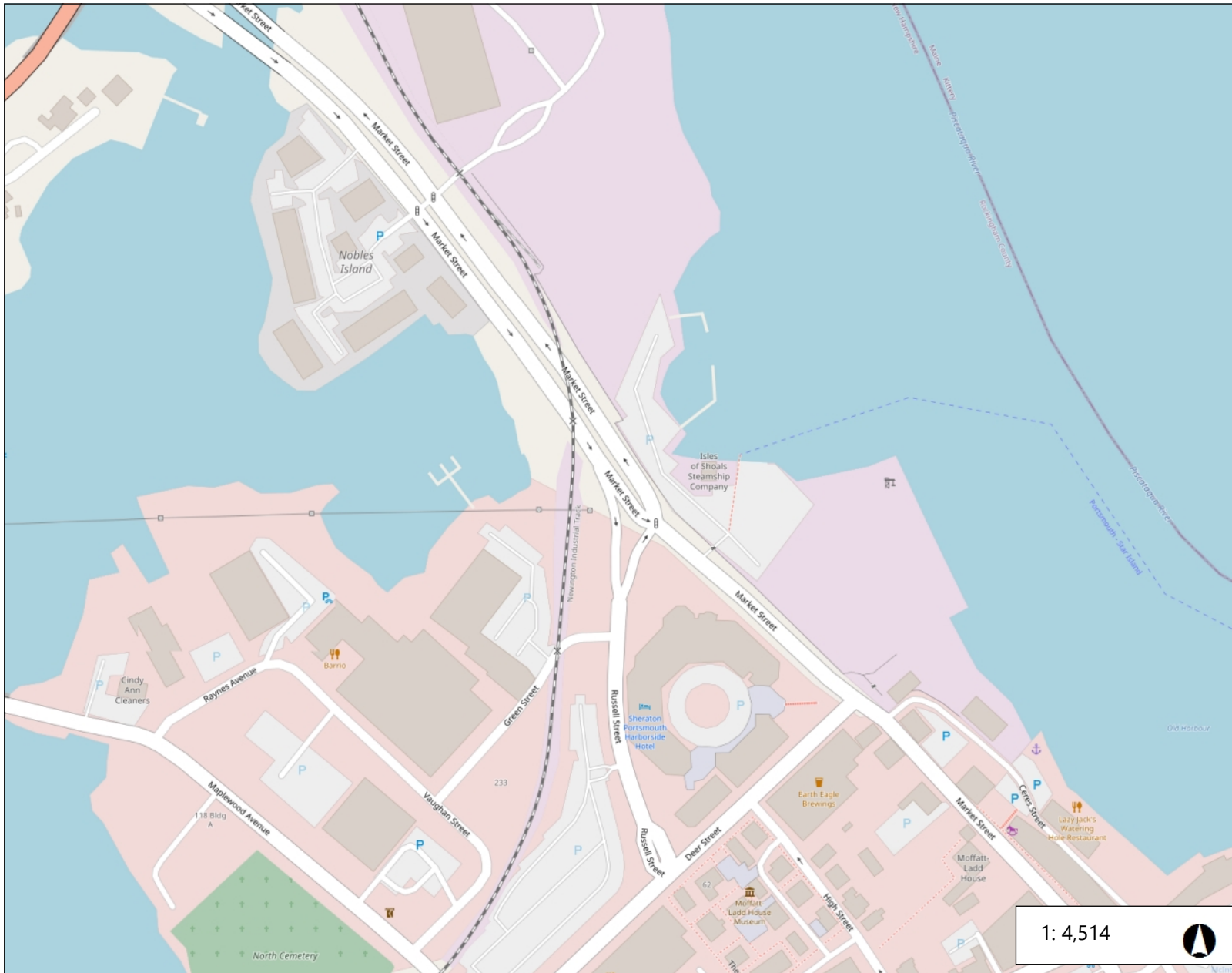
- Freshwater wetland
- Tidal wetland
- Transitional salt marsh
- Salt marsh
- Mud flat
- Inland open water
- Tidal water

1:2,257



0.1 0 0.04 0.1 Miles

Notes



Legend

- Oyster Restoration Sites
- Aquaculture Sites - 2015
- Eelgrass 2017
- Eelgrass 2016
- Eelgrass 2006
- Eelgrass 1996
- Eelgrass 1986

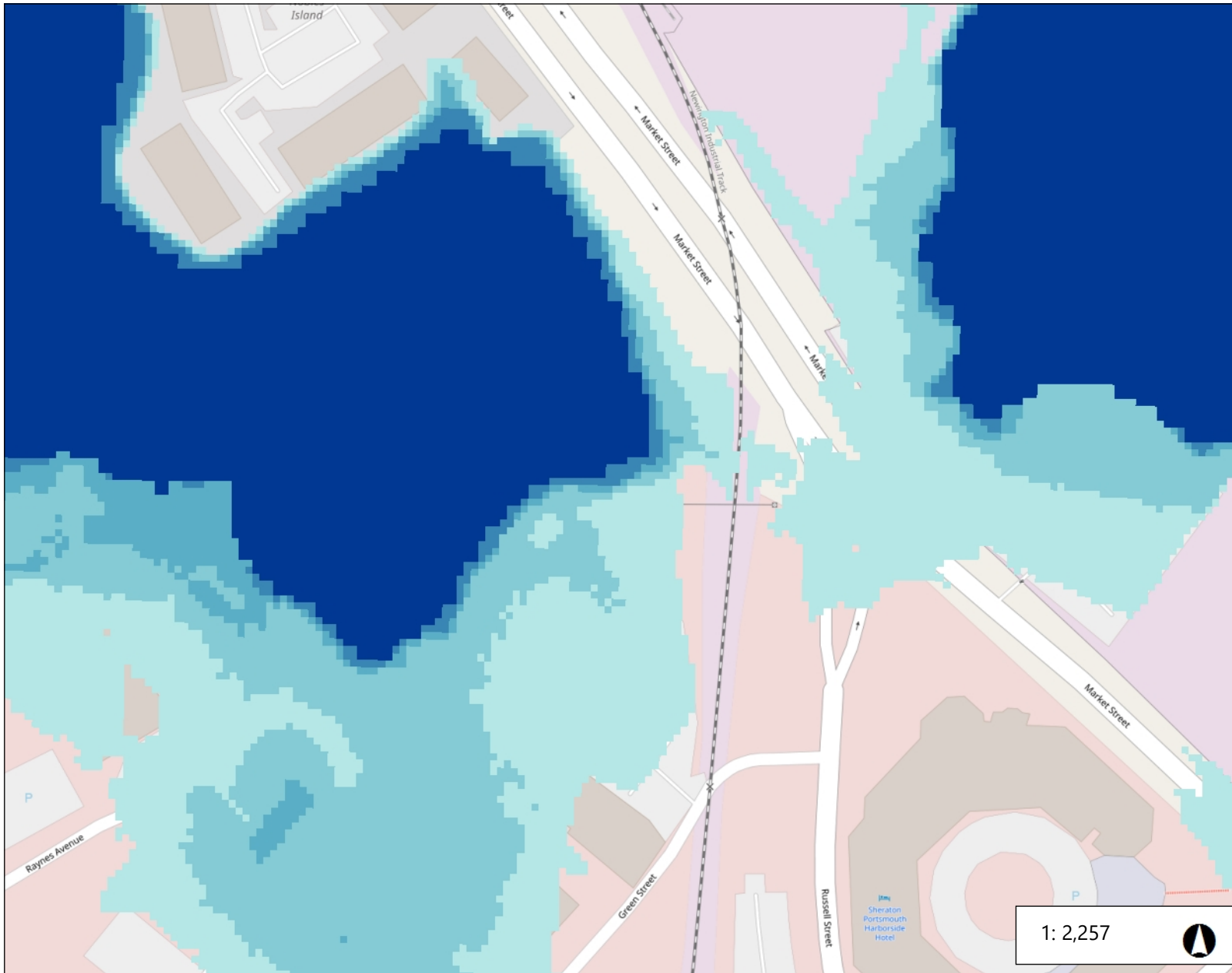
Notes

0.1 0 0.07 0.1 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION



Legend

MHW + 6-ft SLR

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

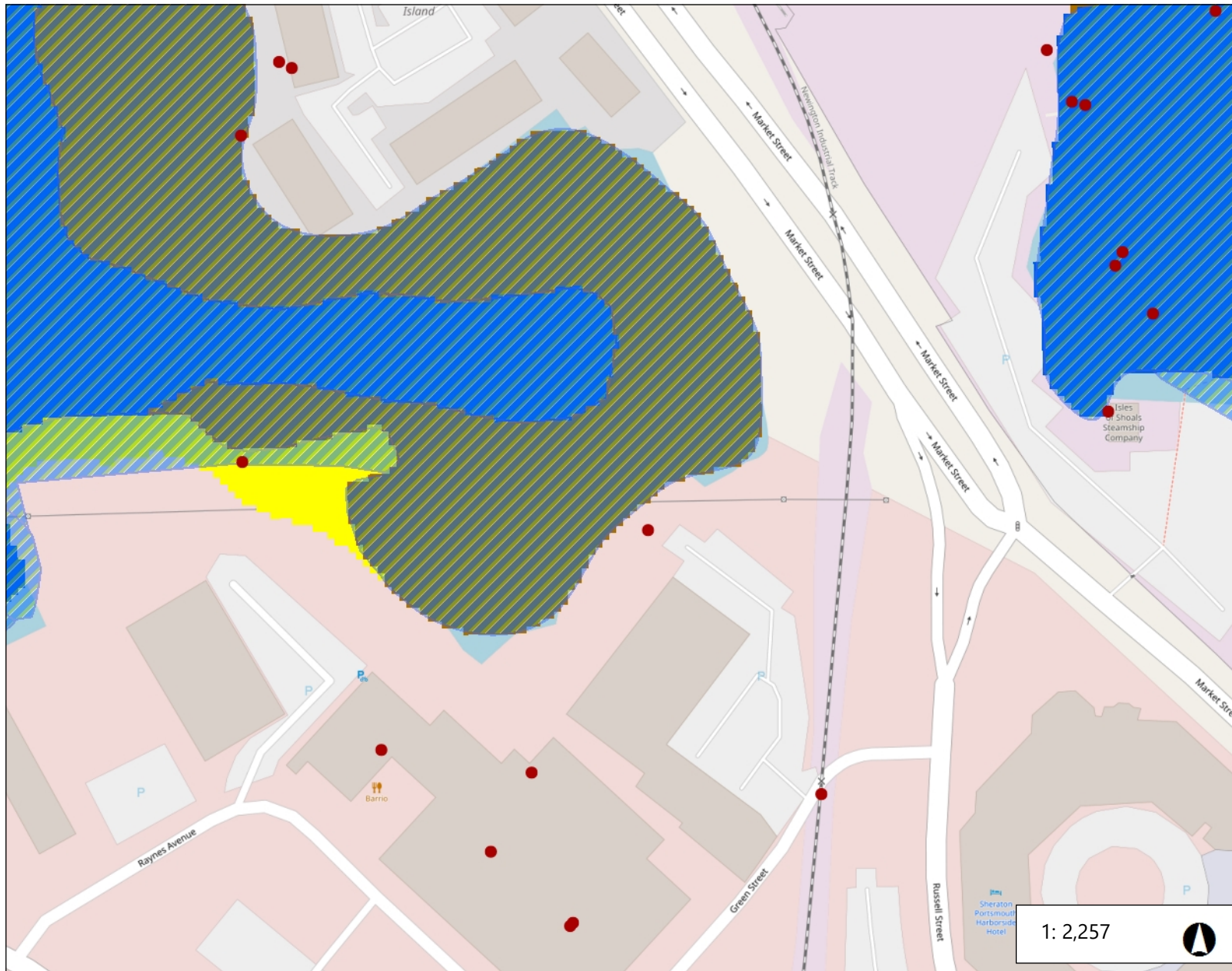
Notes

0.1 0 0.04 0.1 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION



Legend

- Wetland_Permits_points
- Flood Plain Wetlands Adjacent
- Prime Wetlands with 100 ft Buffer
- Prime Wetlands
- Peatlands
- Designated Rivers**
- Subject to SWQPA
- Not Subject to SWQPA
- Sand Dunes**
- backdune
- foredune
- interdune
- other
- Tidal Waters / Tidal Wetlands**
- Tidal wetland
- Transitional salt marsh
- Salt marsh
- Mud flat
- Tidal water

1:2,257



0.1 0 0.04 0.1 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.

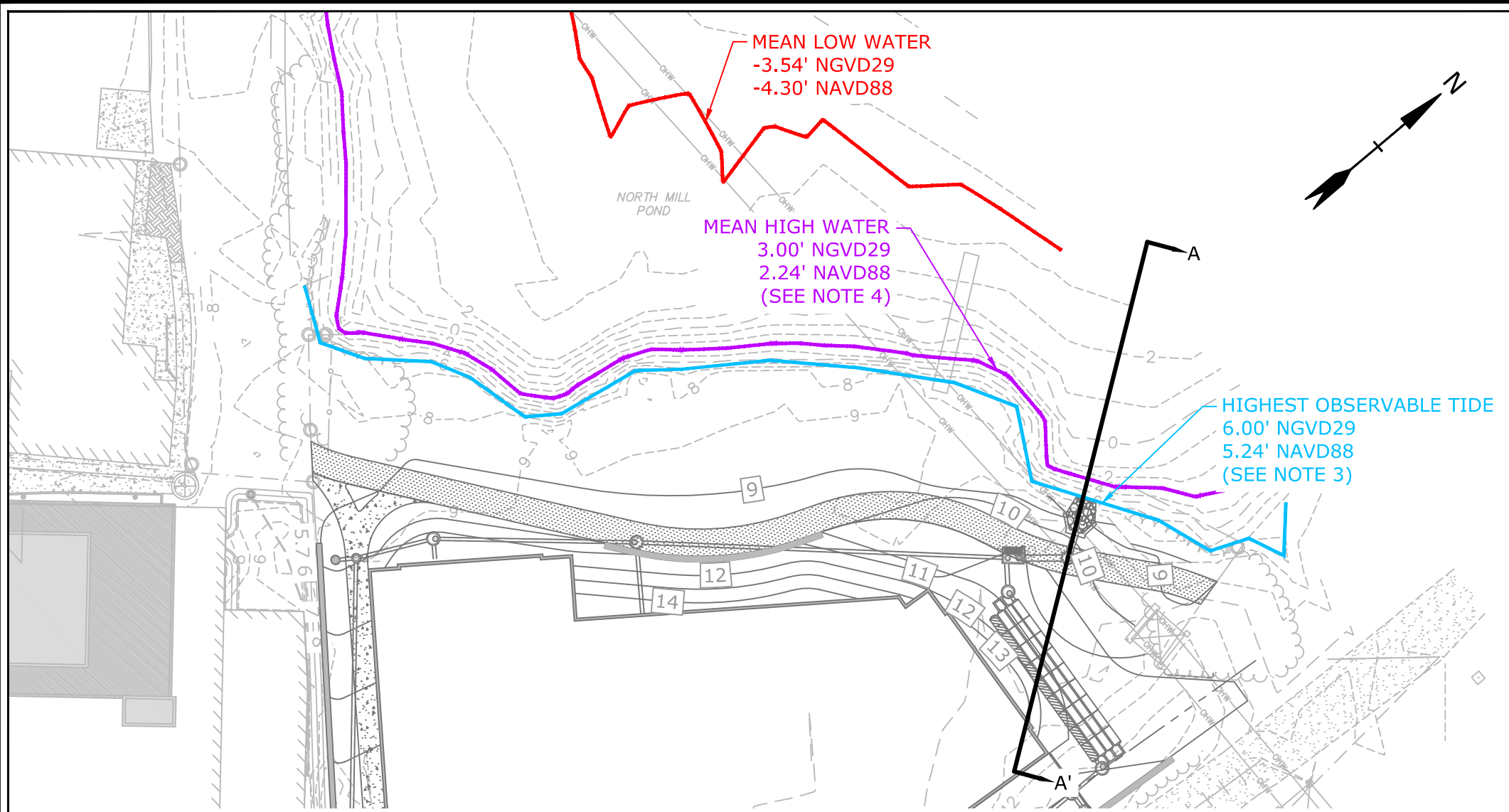
This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

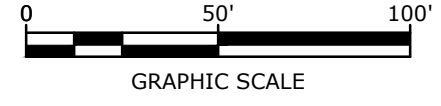
Notes

**PROPOSED MIXED USE DEVELOPMENT
53 GREEN STREET
PORTSMOUTH, NEW HAMPSHIRE**

ELEVATION VIEW



PLAN VIEW
50 SCALE



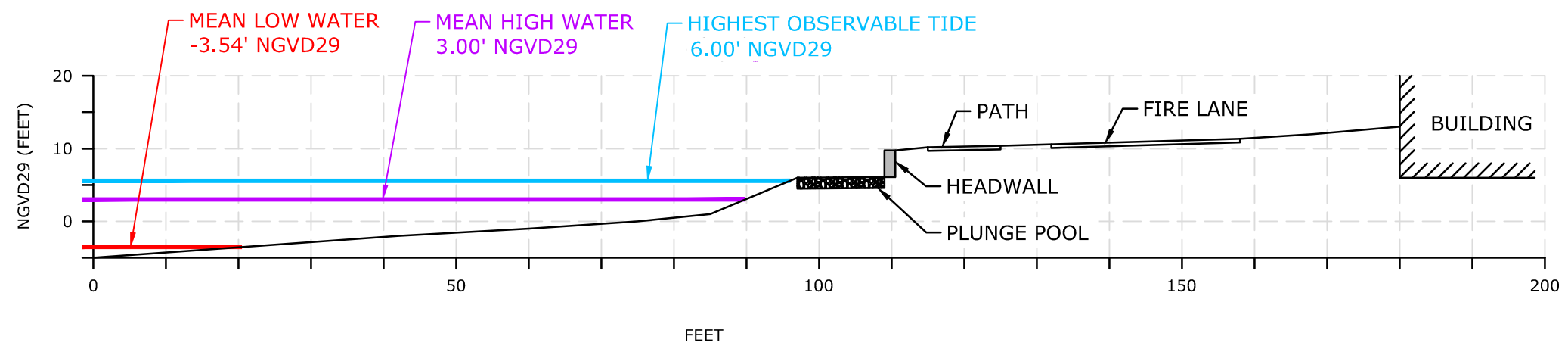
TIDAL DATUMS (FEET)

	NGVD29	NAVD88
HOTL:	6.76	6.00
MHHW:	4.98	4.22
MHW:	3.00	2.24
MTL:	0.52	-0.24
MLW:	-3.54	-4.30
MLLW:	-3.86	-4.62

PREDICTED SLR 2122: 5.0 FT

NOTES:

1. UNLESS OTHERWISE NOTED, DATUMS ARE FROM NOAA FOR SEAVEY ISLAND
2. 0.76 FEET CONVERSION FROM NAVD88 TO NGVD29 HAS BEEN OBTAINED FROM GEODETIC CONTROL POINT B 2 1923 PROVIDED BY GRANITVIEW.
3. HIGHEST OBSERVABLE TIDE LINE WAS FIELD DELINEATED AND IS APPROXIMATE.
4. MEAN HIGH WATER ELEVATION PER "MAPLEWOOD AVENUE CULVERT REPLACEMENT AND NORTH MILL POND RESTORATION, WATERFRONT/STRUCTURAL BASIS OF DESIGN, BY WATERFRONT ENGINEERS, LLC, DATED DECEMBER 30, 2009".



SECTION A'-A
20 SCALE



Last Save Date: August 2, 2021, 4:39 PM By: ASELLAR
 Plot Date: Monday, August 02, 2021 Plotted By: Alexander Sellar
 TSS File Location: J:\C0960\011_53 Green St, Portsmouth, NH\Drawings\Figures\AutoCAD\C0960-011_C-FIGS.dwg Layout: Tab: ELEVATION

EFH Data Notice: Essential Fish Habitat (EFH) is defined by textual descriptions contained in the fishery management plans developed by the regional Fishery Management Councils. In most cases mapping data can not fully represent the complexity of the habitats that make up EFH. This report should be used for general interest queries only and should not be interpreted as a definitive evaluation of EFH at this location. A location-specific evaluation of EFH for any official purposes must be performed by a regional expert. Please refer to the following links for the appropriate regional resources.

[Greater Atlantic Regional Office](#)
[Atlantic Highly Migratory Species Management Division](#)

Query Results

Degrees, Minutes, Seconds: Latitude = 43°4'51" N, Longitude = 71°14'24" W
 Decimal Degrees: Latitude = 43.08, Longitude = -70.76

The query location intersects with spatial data representing EFH and/or HAPCs for the following species/management units.

*** WARNING ***

Please note under "Life Stage(s) Found at Location" the category "ALL" indicates that all life stages of that species share the same map and are designated at the queried location.

EFH

Show	Link	Data Caveats	Species/Management Unit	Lifestage(s) Found at Location	Management Council	FMP
			Atlantic Sea Scallop	ALL	New England	Amendment 14 to the Atlantic Sea Scallop FMP
			Atlantic Wolffish	ALL	New England	Amendment 14 to the Northeast Multispecies FMP
			Winter Flounder	Eggs Juvenile Larvae/Adult	New England	Amendment 14 to the Northeast Multispecies FMP
			Little Skate	Juvenile Adult	New England	Amendment 2 to the Northeast Skate Complex FMP
			Atlantic Herring	Juvenile Adult Larvae	New England	Amendment 3 to the Atlantic Herring FMP
			Atlantic Cod	Larvae Adult Eggs	New England	Amendment 14 to the Northeast Multispecies FMP
			Pollock	Juvenile Eggs Larvae	New England	Amendment 14 to the Northeast Multispecies FMP
			Red Hake	Adult Eggs/Larvae/Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
			Windowpane Flounder	Adult Larvae Eggs Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
			Winter Skate	Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
			Smooth Skate	Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
			White Hake	Adult Eggs Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
			Thorny Skate	Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
			Bluefin Tuna	Adult	Secretarial	Amendment 10 to the 2006 Consolidated HMS FMP: EFH
			Atlantic Mackerel	Eggs Larvae Juvenile	Mid-Atlantic	Atlantic Mackerel, Squid, & Butterfish Amendment 11
			Bluefish	Adult Juvenile	Mid-Atlantic	Bluefish
			Atlantic Butterfish	Adult	Mid-Atlantic	Atlantic Mackerel, Squid, & Butterfish Amendment 11

HAPCs

Show	Link	Data Caveats	HAPC Name	Management Council
			Inshore 20m Juvenile Cod	undefined

EFH Areas Protected from Fishing

No EFH Areas Protected from Fishing (EFHA) were identified at the report location.

Spatial data does not currently exist for all the managed species in this area. The following is a list of species or management units for which there is no spatial data.

****For links to all EFH text descriptions see the complete data inventory: [open data inventory -->](#)**

All spatial data is currently mapped for this region

National Flood Hazard Layer FIRMMette



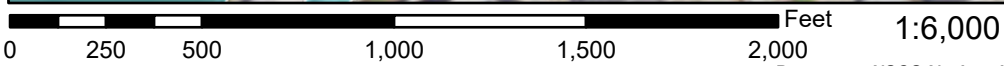
70°46'2"W 43°5'3"N



Legend

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

- | | | |
|------------------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> |
| | | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | | Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| | | Area of Undetermined Flood Hazard <i>Zone D</i> |
| GENERAL STRUCTURES | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |
| OTHER FEATURES | | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation |
| | | 17.5 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. |



70°45'24"W 43°4'36"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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 6/2/2021 at 11:47 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 unmodernized areas cannot be used for regulatory purposes.

APPENDIX F

Civil Plans (Bound Separately)

PROPOSED MIXED USE DEVELOPMENT

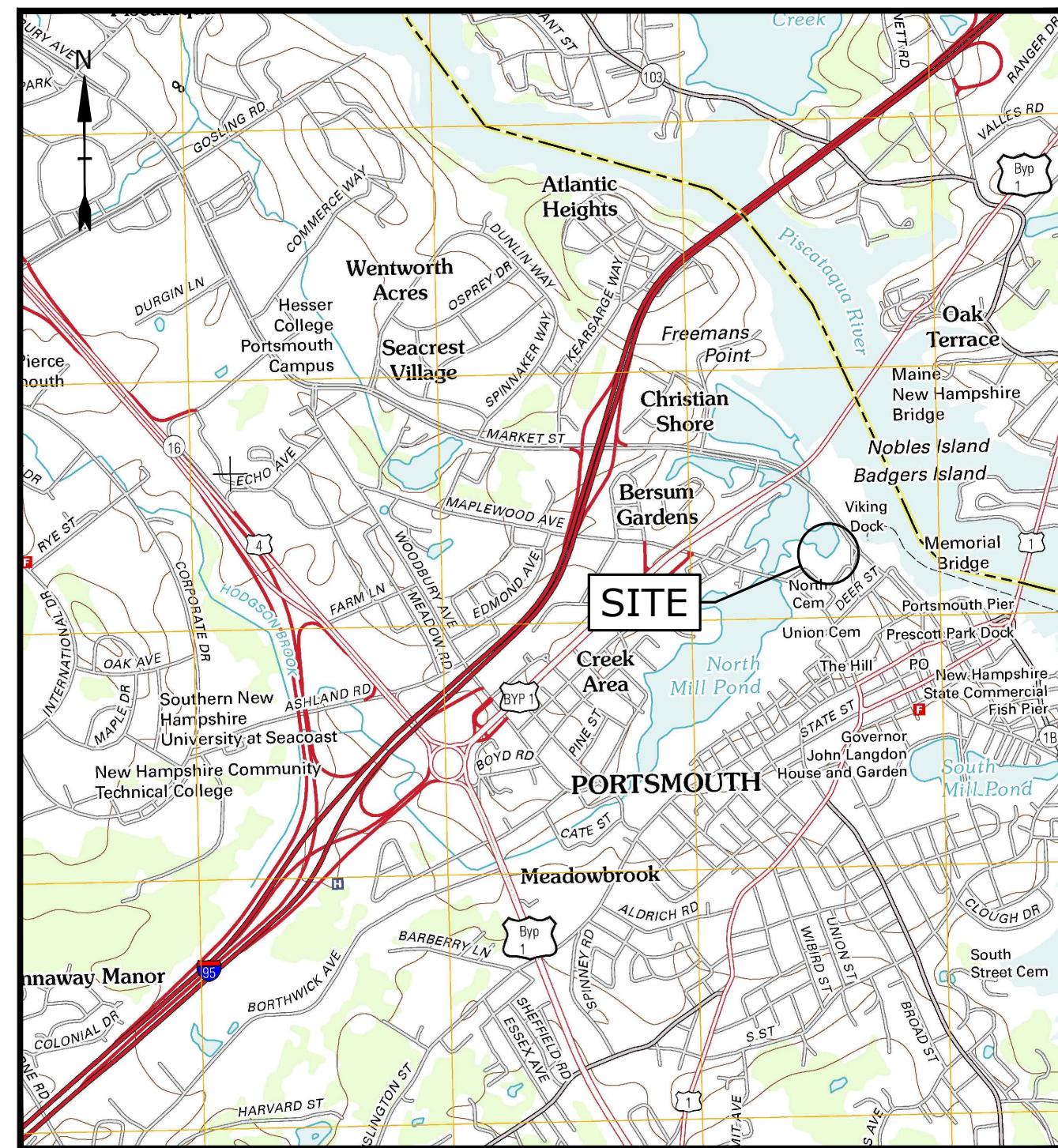
53 GREEN STREET
PORTSMOUTH, NEW HAMPSHIRE

APRIL 21, 2021

LAST REVISED: FEBRUARY 16, 2024

LIST OF DRAWINGS		
SHEET NO.	SHEET TITLE	LAST REVISED
	COVER SHEET	2/16/2024
1 OF 2	EXISTING CONDITIONS PLAN	7/6/2021
2 OF 2	EXISTING CONDITIONS PLAN	7/6/2021
C-101	DEMOLITION PLAN	2/16/2024
C-102.1	SITE PLAN	2/16/2024
C-102.2	BASEMENT & UPPER FLOOR PLAN	2/16/2024
C-103	GRADING, DRAINAGE AND EROSION CONTROL PLAN	2/16/2024
C-104	UTILITIES PLAN	2/16/2024
C-105	WETLAND IMPACT PLAN	2/16/2024
C-301	EASEMENT PLAN	2/16/2024
C-501	EROSION CONTROL NOTES AND DETAILS SHEET	2/16/2024
C-502	DETAILS SHEET	2/16/2024
C-503	DETAILS SHEET	2/16/2024
C-504	DETAILS SHEET	2/16/2024
C-505	DETAILS SHEET	2/16/2024
C-506	DETAILS SHEET	2/16/2024
C-507	DETAILS SHEET	2/16/2024
C-508	DETAILS SHEET	2/16/2024
C-509	DETAILS SHEET	2/16/2024
L-1	LANDSCAPE PLAN	3/22/2021

LIST OF PERMITS		
LOCAL	STATUS	DATE
SITE PLAN REVIEW PERMIT	APPROVED	7/15/2021
LOT LINE REVISION PERMIT	APPROVED	7/15/2021
CONDITIONAL USE PERMIT - WETLAND BUFFER	APPROVED	7/15/2021
STATE		
NHDES - SEWER CONNECTION PERMIT	PENDING	
NHDES - ALTERATION OF TERRAIN PERMIT	APPROVED	7/20/2021
NHDES - WETLAND PERMIT	PENDING	



LOCATION MAP
SCALE: 1" = 2,000'

PREPARED BY:
Tighe & Bond
177 CORPORATE DRIVE
PORTSMOUTH, NEW HAMPSHIRE 03801
603-433-8818

APPLICANT:
CPI MANAGEMENT, LLC
100 SUMMER STREET, SUITE 1600
BOSTON, MASSACHUSETTS 02110

OWNER:
TAX MAP 119, LOT 12
STONE CREEK REALTY, LLC
C/O DOUGLAS PINCIARO
PO BOX 121
NEW CASTLE, NEW HAMPSHIRE 03854

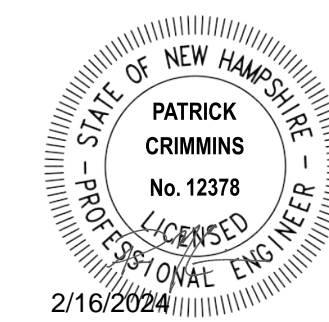
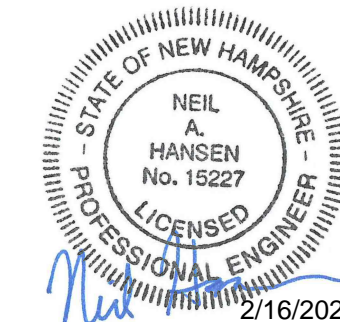
SURVEYOR:
DOUCET SURVEY, LLC
192 KENT PLACE
NEWMARKET, NEW HAMPSHIRE 30857

NEW HAMPSHIRE FISH AND GAME AOT PERMIT CONDITIONS RELATED TO THREATENED AND ENDANGERED SPECIES

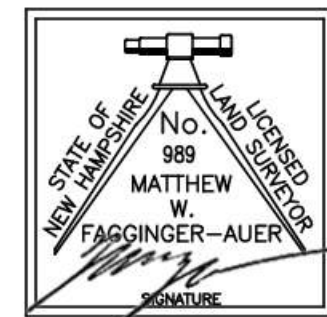
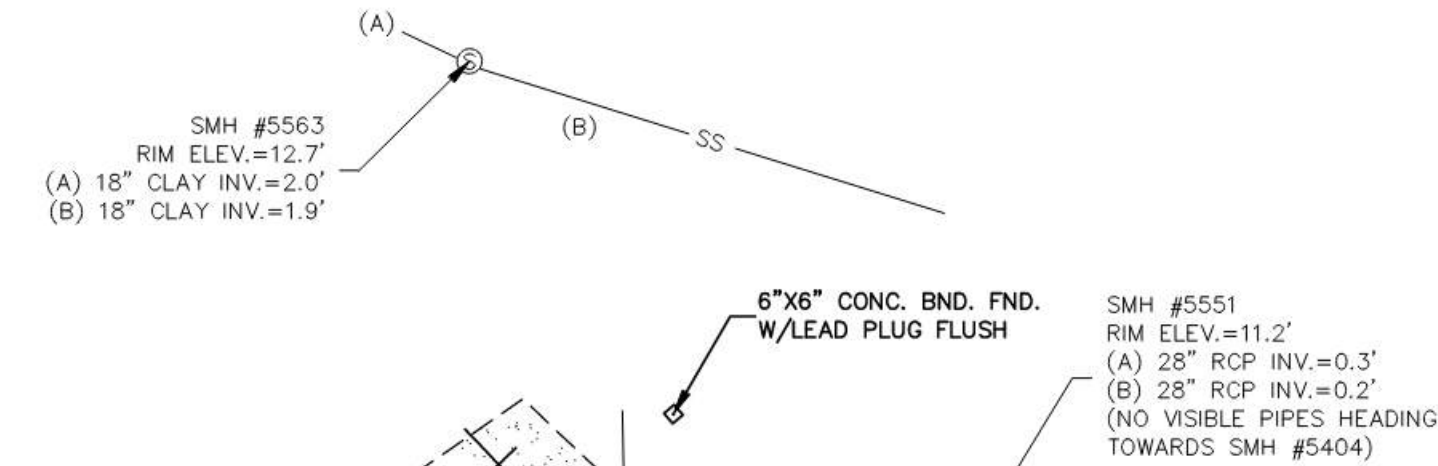
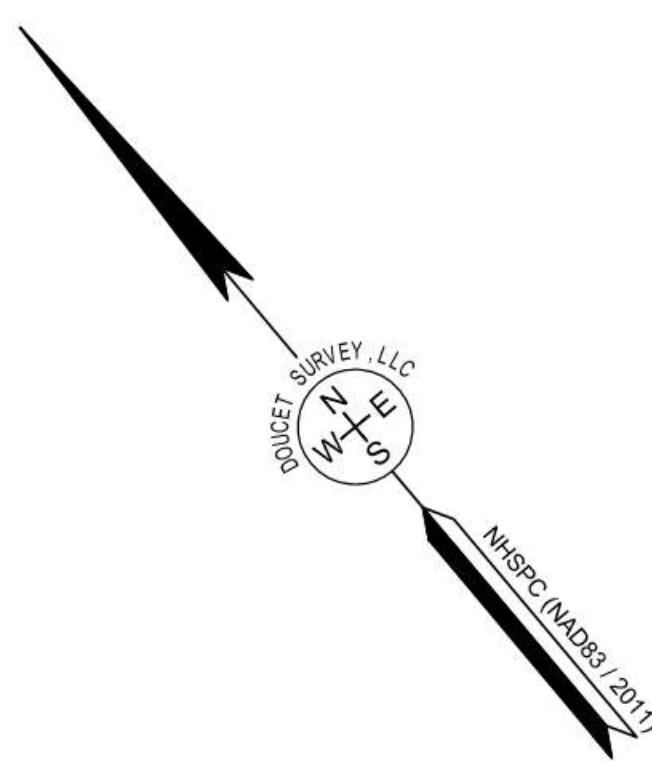
a. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV. EMAIL SUBJECT LINE: NHB21-0875, PROPOSED MIXED USE DEVELOPMENT, WILDLIFE SPECIES OBSERVATION. PHOTOGRAPHS SHALL BE PROVIDED FOR VERIFICATION AS FEASIBLE; AND

b. THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

c. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, EXCEPT FOR SILT FENCE INSTALLED IN ACCORDANCE WITH ENV-WQ 1506.04, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN WELDED PLASTIC, PLASTIC, OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH.



NHDES WETLAND & SHORELAND SUBMISSION COMPLETE SET 20 SHEETS



I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE (NHRSA TITLE LXIV) AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN. I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.

Matthew W. Fagginger-Auer
L.L.S. #989
11/6/21 DATE

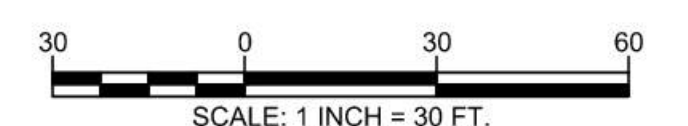
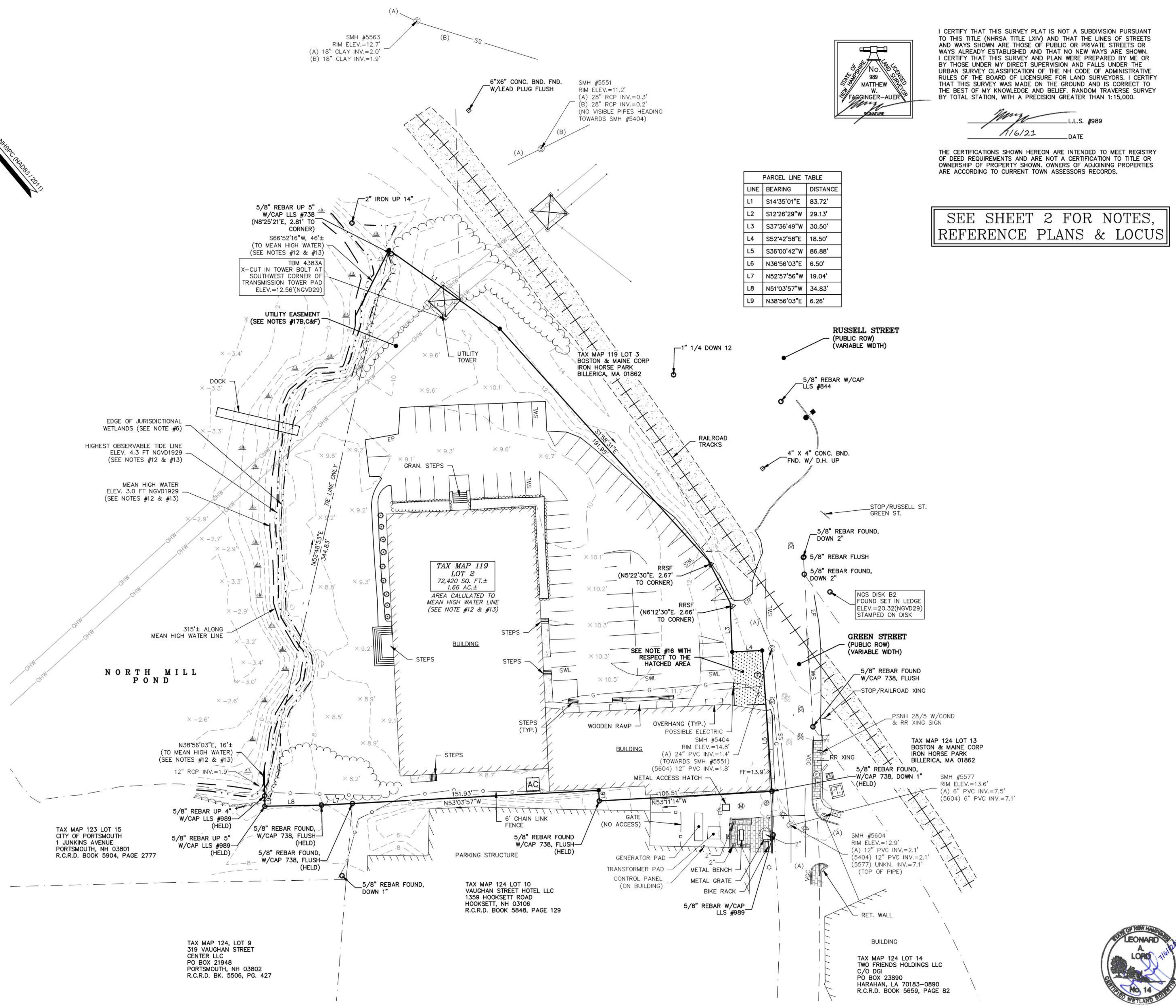
THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN, OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.

SEE SHEET 2 FOR NOTES, REFERENCE PLANS & LOCUS

- LEGEND**
- LOT LINE
 - - - APPROXIMATE ABUTTERS LOT LINE
 - STOCKADE FENCE
 - CHAIN LINK FENCE
 - OHW OVERHEAD WIRE
 - SS SEWER LINE
 - SD DRAIN LINE
 - G GAS LINE
 - 100 MAJOR CONTOUR LINE
 - 98 MINOR CONTOUR LINE
 - MEAN HIGH WATER LINE
 - HIGH TIDE LINE
 - TREE LINE
 - SHRUB LINE
 - EDGE OF WETLAND
 - WETLAND AREA
 - CONCRETE
 - CRUSHED STONE
 - BRICK
 - UTILITY POLE
 - LIGHT POLE
 - LIGHT POLE W/ARM
 - SIGN
 - BOUND FOUND
 - IRON PIPE/ROD FOUND
 - FIRE HYDRANT
 - WATER GATE VALVE
 - WATER SHUTOFF VALVE
 - GAS GATE VALVE
 - GROUND MOUNTED TRANSFORMER
 - ELECTRIC MANHOLE
 - SEWER MANHOLE
 - HAND HOLE
 - DECIDUOUS TREE
 - CONIFEROUS SHRUB
 - TYP. BOUND FOUND
 - CONCRETE
 - FINISHED FLOOR ELEVATION
 - EDGE OF PAVEMENT
 - VERTICAL GRANITE CURB
 - SINGLE WHITE LINE
 - 5/8" REBAR W/D CAP TO BE SET

PARCEL LINE TABLE

LINE	BEARING	DISTANCE
L1	S14°35'01"E	83.72'
L2	S12°26'29"W	29.13'
L3	S37°36'49"W	30.50'
L4	S52°42'58"E	18.50'
L5	S36°00'42"W	86.88'
L6	N36°56'03"E	6.50'
L7	N52°57'56"W	19.04'
L8	N51°03'57"W	34.83'
L9	N38°56'03"E	6.26'



EXISTING CONDITIONS PLAN
FOR
TIGHE & BOND
OF
STONE CREEK REALTY LLC
(TAX MAP 119, LOT 2)
53 GREEN STREET
PORTSMOUTH, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY

DRAWN BY:	E.D.P.	DATE:	NOVEMBER 2019
CHECKED BY:	M.W.F.	DRAWING NO.:	4383F
JOB NO.:	4383	SHEET	1 OF 2



DOUCET SURVEY
Serving Your Professional Surveying & Mapping Needs
102 Kant Place, Newmarket, NH 03857 (603) 659-6560
2 Commerce Drive (Suite 202) Bedford, NH 03110 (603) 614-4060
10 Storer Street (Riverview Suite) Kennebunk, ME (207) 502-7005
http://www.doucetsurvey.com

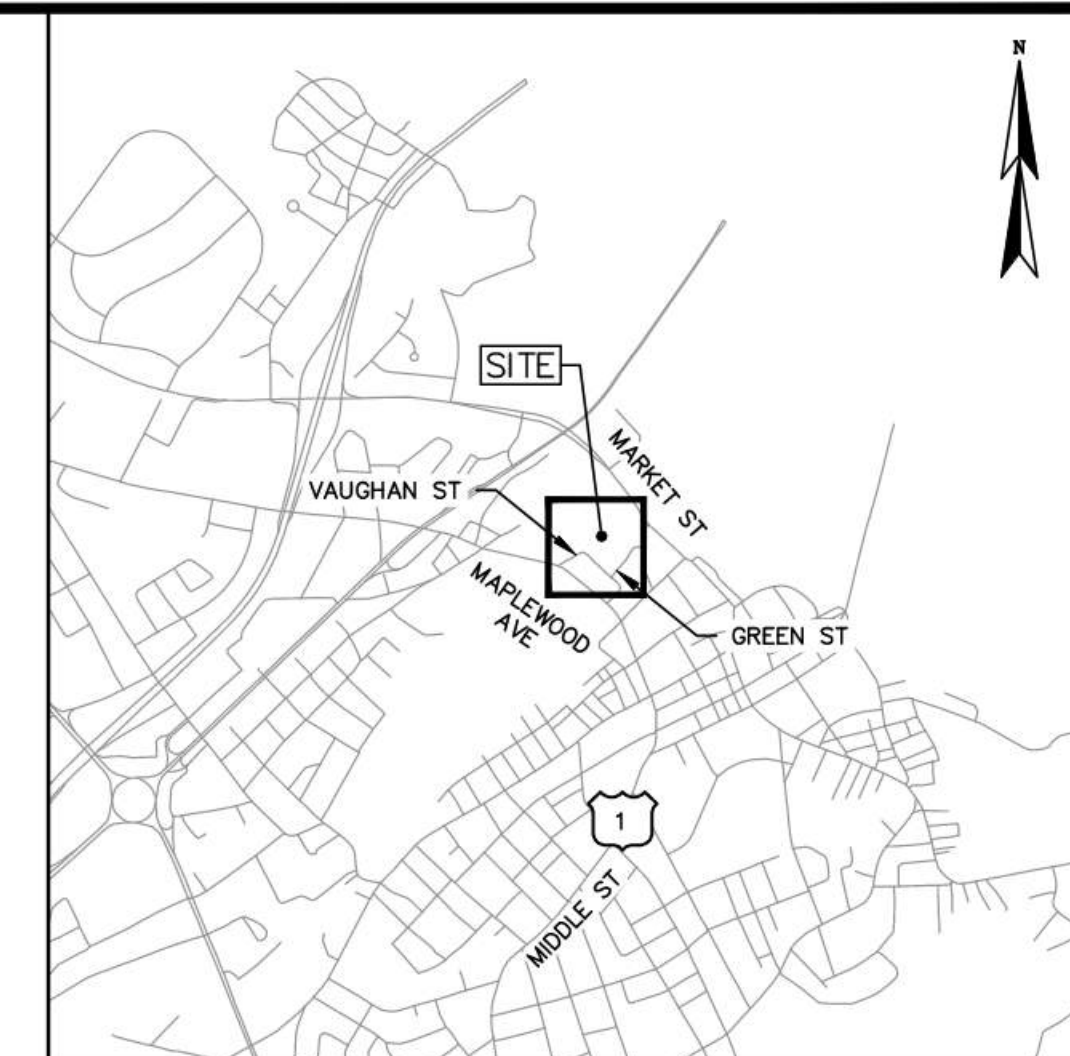
FILE NAME: Y:\PROJECTS\LAND CONVERSION\ASB (LOT 119-2) CSD (REVISED 4-29-21)\Fig LAYOUT (NAME) DTD PLAN (1) PLOTTED: Tuesday, July 06, 2021 - 9:50am

NOTES:

1. REFERENCE: TAX MAP 119, LOT 2
53 GREEN STREET
D.S.I. PROJECT NO. 4383
 2. TOTAL PARCEL AREA: 72,420 SQ. FT.± OR 1.66 AC.±
(AREA CALCULATED TO MEAN HIGH WATER)
(SEE NOTE #12)
 3. OWNER OF RECORD: STONE CREEK REALTY LLC
C/O DOUGLAS PINCIARO
PO BOX 121
NEW CASTLE, NH 03854
R.C.R.D. BOOK 3300, PAGE 329
 4. ZONE: CD5 OVERLAY DISTRICTS
-DOWNTOWN OVERLAY DISTRICT
-HISTORIC DISTRICT
- ZONING DISTRICTS BASED ON THE CITY OF PORTSMOUTH ZONING MAP DATED 11/12/15 AS AVAILABLE ON THE CITY WEBSITE ON 11/19/19. SEE CITY OF PORTSMOUTH ZONING ORDINANCE ARTICLE 5A, SECTION 10.5440 FOR DIMENSIONAL REGULATIONS. THE LAND OWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS.
- THE SITE IS SUBJECT TO THE STATE OF NH SHORELAND WATER QUALITY PROTECTION ACT. SEE NHDES WEBSITE FOR SPECIFIC DIMENSIONAL REQUIREMENT.
5. FIELD SURVEY PERFORMED BY D.C.B. & K.J.L. DURING NOVEMBER 2019 USING A TRIMBLE S7 TOTAL STATION AND A TRIMBLE R8 SURVEY GRADE GPS WITH A TRIMBLE TSC3 DATA COLLECTOR AND A TRIMBLE DINI DIGITAL LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
 6. JURISDICTIONAL WETLANDS DELINEATED BY LEONARD LORD OF TIGHE & BOND, DURING OCTOBER 2019 IN ACCORDANCE WITH 1987 CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT 7-87-1 AND THE INTERIM REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION (OCTOBER, 2009).
 7. VERTICAL DATUM IS BASED ON NGVD29 PER DISK B2 1923.
 8. HORIZONTAL DATUM BASED ON NEW HAMPSHIRE STATE PLANE(2800) NAD83(2011) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
 9. PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 2' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY, INC. WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
 10. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVABLE PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE.
 11. THE ACCURACY OF MEASURED UTILITY INVERTS AND PIPE SIZES/TYPES IS SUBJECT TO NUMEROUS FIELD CONDITIONS, INCLUDING; THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS, MANHOLE CONFIGURATION, ETC.
 12. WATER BOUNDARIES ARE DYNAMIC IN NATURE AND ARE SUBJECT TO CHANGE DUE TO NATURAL CAUSES SUCH AS EROSION OR ACCRETION.
 13. MEAN HIGH WATER (EL. 3.0' NGVD1929) AND HIGHEST OBSERVABLE TIDE (EL. 4.3' NGVD1929) ELEVATIONS PER "MAPLEWOOD AVENUE CULVERT REPLACEMENT AND NORTH MILL POND RESTORATION, WATERFRONT/STRUCTURAL BASIS OF DESIGN, BY WATERFRONT ENGINEERS, LLC, DATED DECEMBER 30, 2009", PROVIDED BY TIGHE & BOND ON 11-30-15.
 14. THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
 15. DUE TO THE COMPLEXITY OF RESEARCHING ROAD RECORDS AS A RESULT OF INCOMPLETE, UNORGANIZED, INCONCLUSIVE, OBLITERATED, OR LOST DOCUMENTS, THERE IS AN INHERENT UNCERTAINTY INVOLVED WHEN ATTEMPTING TO DETERMINE THE LOCATION AND WIDTH OF A ROADWAY RIGHT OF WAY. THE EXTENT OF GREEN STREET AS DEPICTED HEREON IS/ARE BASED ON RESEARCH CONDUCTED AT THE CITY OF PORTSMOUTH CITY HALL, THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS & THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
 16. THE GEOMETRY SHOWN ON REFERENCE PLANS 12 & 13 INDICATE THE HATCHED AREA MAY BE SUBJECT TO THE GREEN STREET RIGHT-OF-WAY, R.C.R.D. BOOK 589, PAGE 206 INDICATES FEE OWNERSHIP EXTENDS TO THE CENTERLINE OF GREEN STREET IN THIS AREA.
 17. TAX MAP 119 LOT 2 SHOWN HEREON IS SUBJECT TO AND/OR IN BENEFIT OF THE FOLLOWING EASEMENTS & COVENANTS.
 - A) SIGNAL FACILITIES EXCEPTIONS AND RESERVATIONS, SEE R.C.R.D. BOOK 1339, PAGE 298, (LOCATION UNKNOWN).
 - B) EASEMENT IN FAVOR OF WESTERN UNION TELEGRAPH COMPANY, SEE R.C.R.D. BOOK 1339, PAGE 298 (NO DIMENSIONS GIVEN).
 - C) ELECTRIC EASEMENT IN FAVOR OF NEW HAMPSHIRE ELECTRIC COMPANY, SEE R.C.R.D. BOOK 1339, PAGE 298 (NO DIMENSIONS GIVEN).
 - D) SEWER LINE EASEMENT IN FAVOR OF THE CITY OF PORTSMOUTH, SEE R.C.R.D. BOOK 1339, PAGE 298 (LOCATION UNKNOWN).
 - E) ADDITIONAL FIRE RESTRICTION, SEE R.C.R.D. BOOK 1339, PAGE 298.
 - F) POLE AND WIRE AGREEMENT, PER NOTE #8 ON REFERENCE PLAN #1, (RECORDED AGREEMENT NOT FOUND).
 - G) ACCESS RIGHTS, SEE R.C.R.D. BOOK 589, PAGE 206 (LOCATION UNKNOWN).
 18. ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL. WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION. THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.

REFERENCE PLANS:

1. "STANDARD BOUNDARY SURVEY, TAX MAP 119 - LOT 2, LAND OF STONE CREEK REALTY", DATED MARCH 2016, BY AMBIT ENGINEERING, INC., NOT RECORDED.
2. "PLAN OF LAND, VAUGHAN AND GREEN STREETS, PORTSMOUTH, NH" DATED JULY 1955 BY JOHN W. DURGIN R.C.R.D. PLAN #02541.
3. "STANDARD BOUNDARY SURVEY, TAX MAP 123 - LOT 15 & TAX MAP 124 LOT 10" DATED JULY 2008, REVISED 4/25/13 BY AMBIT ENGINEERING, INC. R.C.R.D. PLAN #D-37722.
4. "EASEMENT PLAN, EGRESS EASEMENT TO 319 VAUGHAN STREET CENTER, LLC, TAX MAP 124, LOT 9 & TAX MAP 123, LOT 15, PROPERTY OF 299 VAUGHAN STREET, LLC C/O CATHARTES PRIVATE INVESTMENTS", BY AMBIT ENGINEERING, INC., DATED MARCH 2014, R.C.R.D. PLAN #D-38358.
5. "CONDOMINIUM SITE PLAN TAX MAP 124 LOT 14, 233 VAUGHAN STREET, A CONDOMINIUM FOR 233 VAUGHAN STREET, LLC", BY AMBIT ENGINEERING, INC., DATED NOVEMBER 2013, R.C.R.D. PLAN #D-39078.
6. "LOT LINE RELOCATION PLAN PROPERTY OF HARBORCORP, LLC & BOSTON & MAINE CORPORATION", BY AMES MSC, DATED MARCH 15, 2005, R.C.R.D. PLAN #D-32675.
7. "LAND AT 233 VAUGHAN STREET PORTSMOUTH, NH BOSTON & MAINE CORPORATION TO BLUE STAR PROPERTIES, LLC", BY JAMES VERRA & ASSOCIATES, INC., DATED 6/3/01, R.C.R.D. PLAN #D-29702.
8. "VAUGHAN STREET URBAN RENEWAL PROJECT N.H. R-10 PORTSMOUTH, NH, DISPOSITION MAP", BY ANDERSON-NICHOLS & CO., INC., DATED NOVEMBER 1969, R.C.R.D. PLAN D-2408
9. "PLAN OF LAND FOR SOLIMON NEGM", BY TOWN PLANNING & ENGINEERING ASSOCIATES, INC., DATED 3/28/79, R.C.R.D. PLAN #C-8575.
10. "VAUGHAN STREET URBAN RENEWAL PROJECT N.H. R-10 PORTSMOUTH, NH, DISPOSITION PLAN PARCEL 2", BY ANDERSON-NICHOLS & CO., INC., DATED OCTOBER 1973, R.C.R.D. PLAN D-4115.
11. "PLAN OF PROPERTY CORNER VAUGHAN AND GREEN STREETS", DATED FEBRUARY 1907, R.C.R.D. PLAN #306.
12. "LAND SHOWING LAND AND WHARFAGE OWNED BY SILAS PEIRCE AND CO. LTD.", BY A.C. HOYT SURVEYOR, DATED AUGUST 8, 1902, R.C.R.D. PLAN #266.
13. "PLAN OF LAND PORTSMOUTH, NH FOR GEORGE D. EMERSON CO., BY JOHN W. DURGIN, DATED APRIL 1952, ON FILE AT JAMES VERRA AND ASSOCIATES.
14. "PLAN OF LAND VAUGHAN AND GREEN STREETS PORTSMOUTH, NH FOR SAMUEL W. & SUMNER L. POORVU", BY JOHN W. DURGIN, DATED JANUARY 1956, ON FILE AT JAMES VERRA AND ASSOCIATES.
15. "PLAN OF PROPERTY IN PORTSMOUTH, NH OWNED BY R.I. SUGDEN", BY WM A. GROVER, DATED APRIL 15, 1919, ON FILE AT JAMES VERRA AND ASSOCIATES.
16. "LAND ON VAUGHAN STREET PORTSMOUTH, NH, ESTATE OF CARRIE HAM TO LAWRENCE V. REGAN" BY JOHN W. DURGIN, DATED AUGUST 6, 1937, ON FILE AT JAMES VERRA AND ASSOCIATES.
17. "LAND IN PORTSMOUTH, NH, BOSTON & MAINE RAILROAD TO GEORGE D. EMERSON COMPANY", DATED JUNE 1954, R.C.R.D. BOOK 1339, PAGE 305.
18. TRACK PLAN, R.C.R.D. BOOK 1345, PAGE 51.
19. "VAUGHAN STREET URBAN RENEWAL PROJECT N.H. R-10 PORTSMOUTH, NH, APPROVED AS SHOWING VAUGHAN STREET URBAN RENEWAL PROJECT BOUNDARIES AND AREA ONLY, CONDEMNATION MAP", BY ANDERSON-NICHOLS & CO., INC., DATED FEBRUARY 1971, R.C.R.D. PLAN 2425.
20. "SURVEY OF HARBORSIDE & HARBORPARK LAND IN PORTSMOUTH, NH", BY BRIGGS ASSOCIATES, INC., DATED AUGUST 13, 1985, REV. AUGUST 27, 1985, R.C.R.D. PLAN 14043.
21. "SUBDIVISION PLAN OF TAX MAP 123, LOT 15 FOR 299 VAUGHAN STREET, LLC", BY DOUCET SURVEY, INC., DATED MAY 19, 2017, R.C.R.D. PLAN D-40759.
22. "LICENSE, EASEMENT & LAND TRANSFER PLAN FOR VAUGHAN STREET, LLC AND VAUGHAN STREET HOTEL, LLC", BY DOUCET SURVEY, INC., DATED AUGUST 2017, R.C.R.D. PLAN D-40760.
23. "LOT MERGER PLAN FOR VAUGHAN STREET HOTEL, LLC", BY DOUCET SURVEY, INC., DATED SEPTEMBER 2017.
24. "STATION MAP - LANDS, BOSTON AND MAINE RAILROAD OPERATED BY THE BOSTON AND MAINE RAILROAD, STATION 2966+20 TO STATION 3019+0", DATED JUNE 30, 1914, ON FILE AT THE BOSTON AND MAINE CORPORATION.
25. "VAUGHAN STREET PROJECT, PROJECT NO. N.H. R-10, RIGHT OF WAY ADJUSTMENT", BY METCALF & EDDY, DATED MAY 5, 1966, R.C.R.D. PLAN D-2413.
26. "SKETCH OF RAILROAD CONVEYANCE, SEE R.C.R.D. BOOK 446, PAGE 164A.
27. "VAUGHAN STREET URBAN RENEWAL PROJECT N.H. R-10, PORTSMOUTH, NH, DISPOSITION PLAN, PARCEL 2B", BY ANDERSON-NICHOLS & CO., INC., DATED APRIL 1974, R.C.R.D. PLAN DC-4518.
28. "SEWER EASEMENT PLAN, TAX MAP 119, LOT 4, PROPERTY OF NORTH END MASTER DEVELOPMENT LP, GREEN, MARKET & RUSSELL STREETS, PORTSMOUTH, NEW HAMPSHIRE, COUNTY OF ROCKINGHAM", BY TFM, DATED JULY 16, 2019.
29. "SUBDIVISION PLAN OF PARCELS 1 & 2 IN PORTSMOUTH, NH FOR THE CITY OF PORTSMOUTH", BY BRIGGS ASSOCIATES INC., DATED AUGUST 1, 1984, R.C.R.D. PLAN D-13798.
30. "VAUGHAN STREET PROJECT, PROJECT NO. N.H. R-10, PROPERTY MAP-A, PORTSMOUTH HOUSING AUTHORITY, PORTSMOUTH, NEW HAMPSHIRE, ROCKINGHAM COUNTY", BY METCALF & EDDY, DATED MAY 5, 1966, R.C.R.D. PLAN D-2410.
31. "LAND IN PORTSMOUTH, NH, BOSTON & MAINE RAILROAD TO ROSE R. WOLFSON", DATED JUNE 1954, R.C.R.D. PLAN 2282.

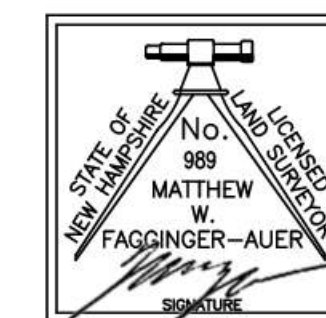


Location Map (n.t.s.)

EXISTING CONDITIONS PLAN
FOR
TIGHE & BOND
OF
STONE CREEK REALTY LLC
(TAX MAP 119, LOT 2)
53 GREEN STREET
PORTSMOUTH, NEW HAMPSHIRE

NO.	DATE	DESCRIPTION	BY

DRAWN BY:	E.D.P.	DATE:	NOVEMBER 2019
CHECKED BY:	M.W.F.	DRAWING NO.	4383F
JOB NO.	4383	SHEET	2 OF 2



I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE (NH RSA TITLE LXIV) AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN. I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.

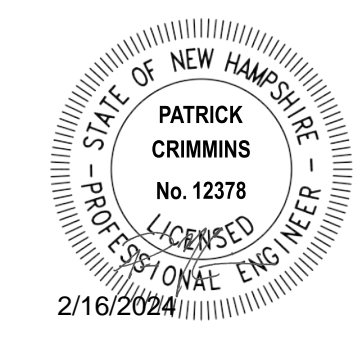
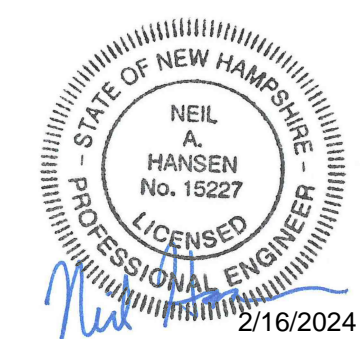


Matthew W. Fagginger-Auer
L.L.S. #989
7/6/21
DATE

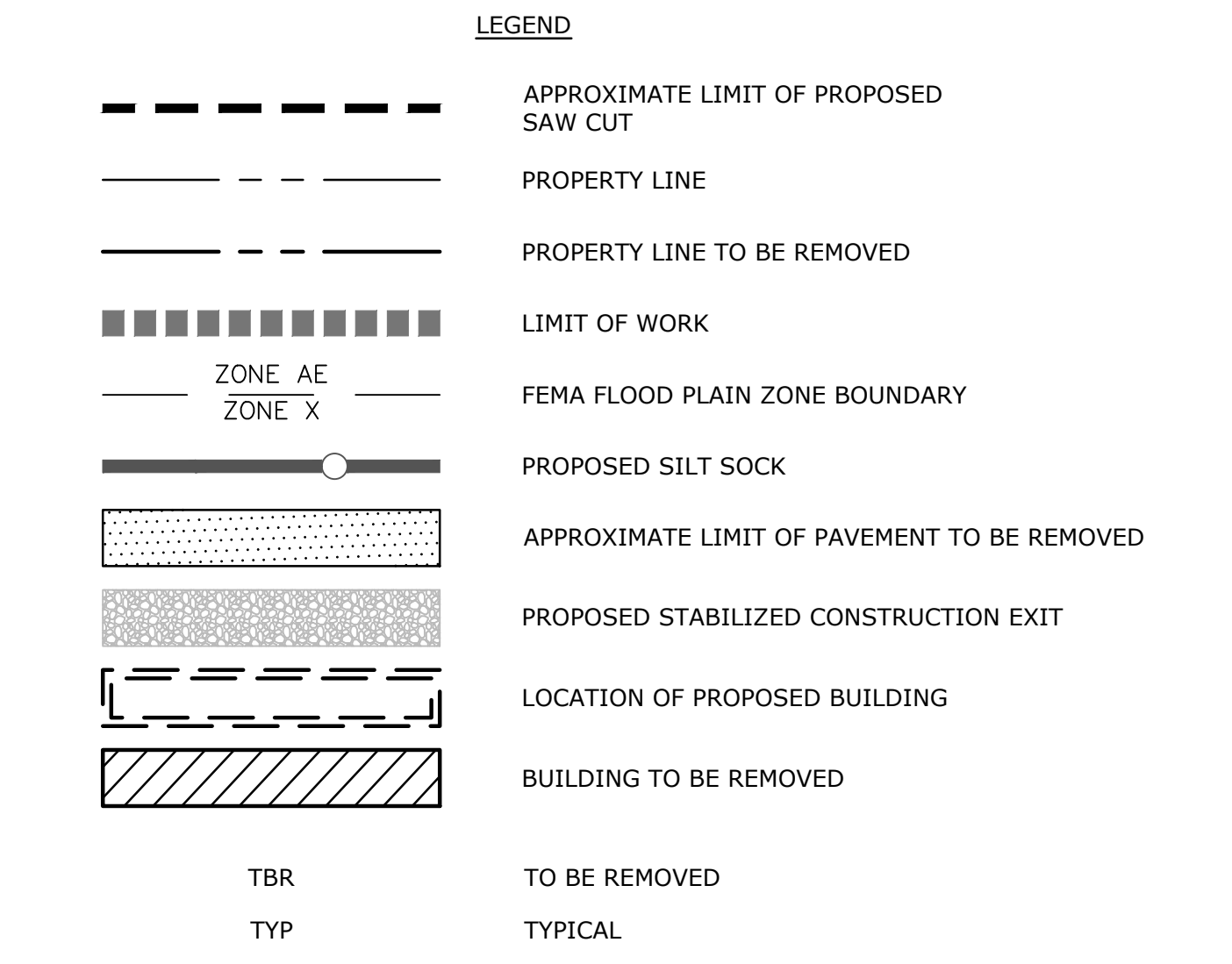
THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.



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10 Storer Street (Riverview Suite) Kennebunk, ME (207) 502-7005
http://www.doucetsurvey.com



- DEMOLITION NOTES:**
1. THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
 2. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
 3. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.
 4. COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
 5. ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 6. SAW CUT AND REMOVE PAVEMENT ONE (1) FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.
 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.
 8. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS.
 10. UTILITIES SHALL BE TERMINATED AT THE MAIN LINE PER UTILITY COMPANY STANDARDS. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS OF WORK. CONTRACTOR SHALL VERIFY ORIGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITY IS ACTIVE, AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.
 11. PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT REMOVAL PRIOR TO BID.
 12. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, UTILITIES AND PAVEMENT WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO BE REMOVED INCLUDE BUT ARE NOT LIMITED TO: CONCRETE, PAVEMENT, CURBS, LIGHTING, MANHOLES, CATCH BASINS, UNDER GROUND PIPING, POLES, STAIRS, SIGNS, FENCES, RAMPS, WALLS, BOLLARDS, BUILDING SLABS, FOUNDATION, TREES AND LANDSCAPING.
 13. COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAYS WITH THE CITY OF PORTSMOUTH.
 14. REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND REMOVE ALL STUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
 15. CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY THE CONTRACTOR, THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED SURVEYOR TO REPLACE DISTURBED MONUMENTS.
 16. PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS/CURB INLETS WITHIN CONSTRUCTION LIMITS AS WELL AS CATCH BASINS/CURB INLETS THAT MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INLET PROTECTION BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE "HIGH FLOW SILT SACK" BY ACF ENVIRONMENTAL OR EQUAL. INSPECT BARRIERS WEEKLY AND AFTER EACH RAIN EVENT OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED OR SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE BARRIER.
 17. THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES AND HOMES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS AND HOME SERVICES INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES. TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
 18. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
 19. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.
 20. SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.



Proposed Mixed Use Development

CPI Management, LLC

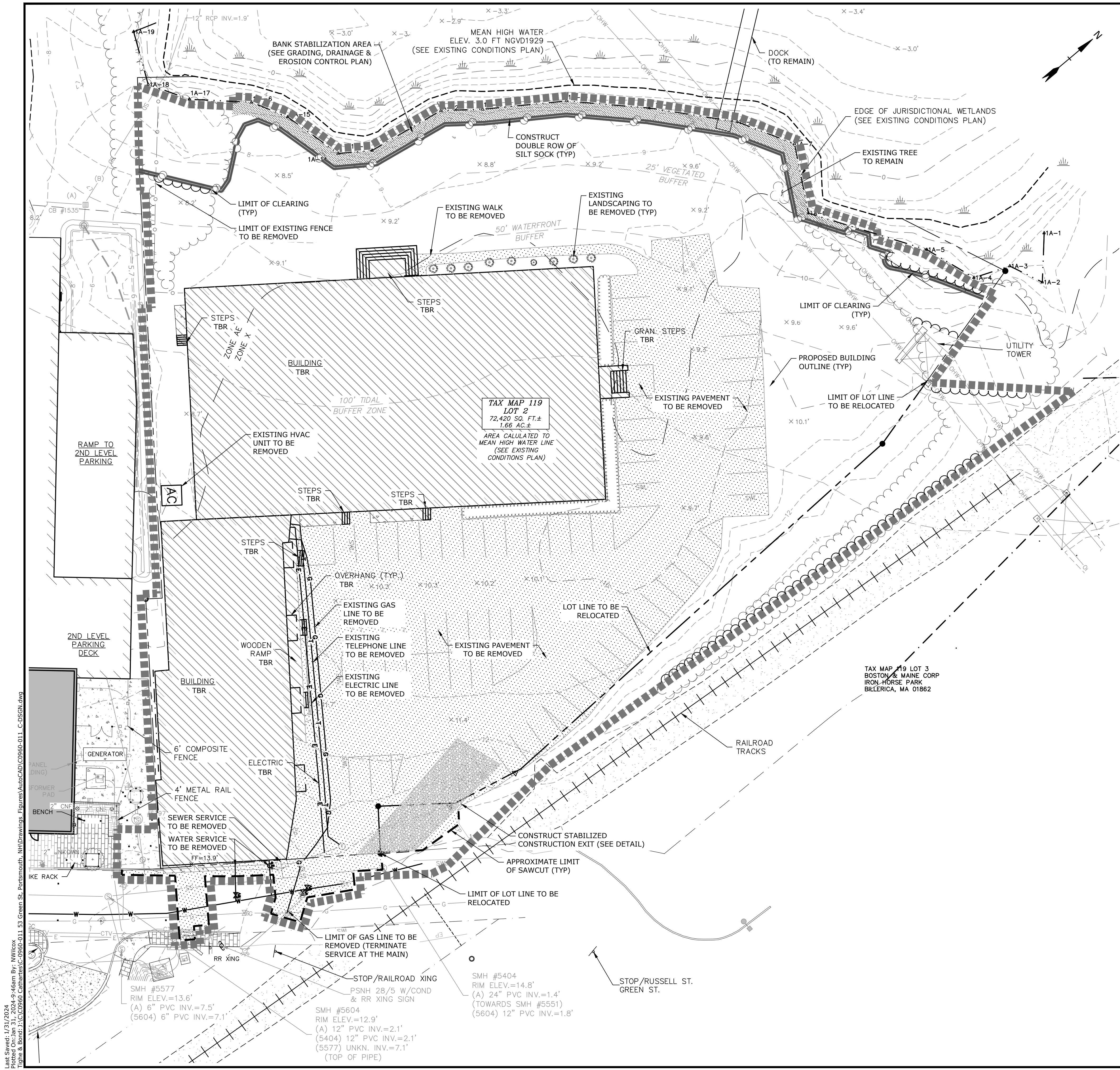
53 Green Street
Portsmouth, NH

MARK	DATE	DESCRIPTION
J	2/16/2024	NHDES Wetland & Shoreland Submission
I	1/22/2024	Sewer Connection Permit
H	8/5/2021	Revised Site Data Table
G	7/20/2021	AsT Additional Info. Request
F	7/8/2021	AsT Resubmission
E	7/7/2021	PB Submission
D	5/19/2021	TAC Resubmission
C	4/21/2021	TAC Resubmission
B	3/22/2021	TAC & CC Submission
A	1/27/2021	CC Work Session

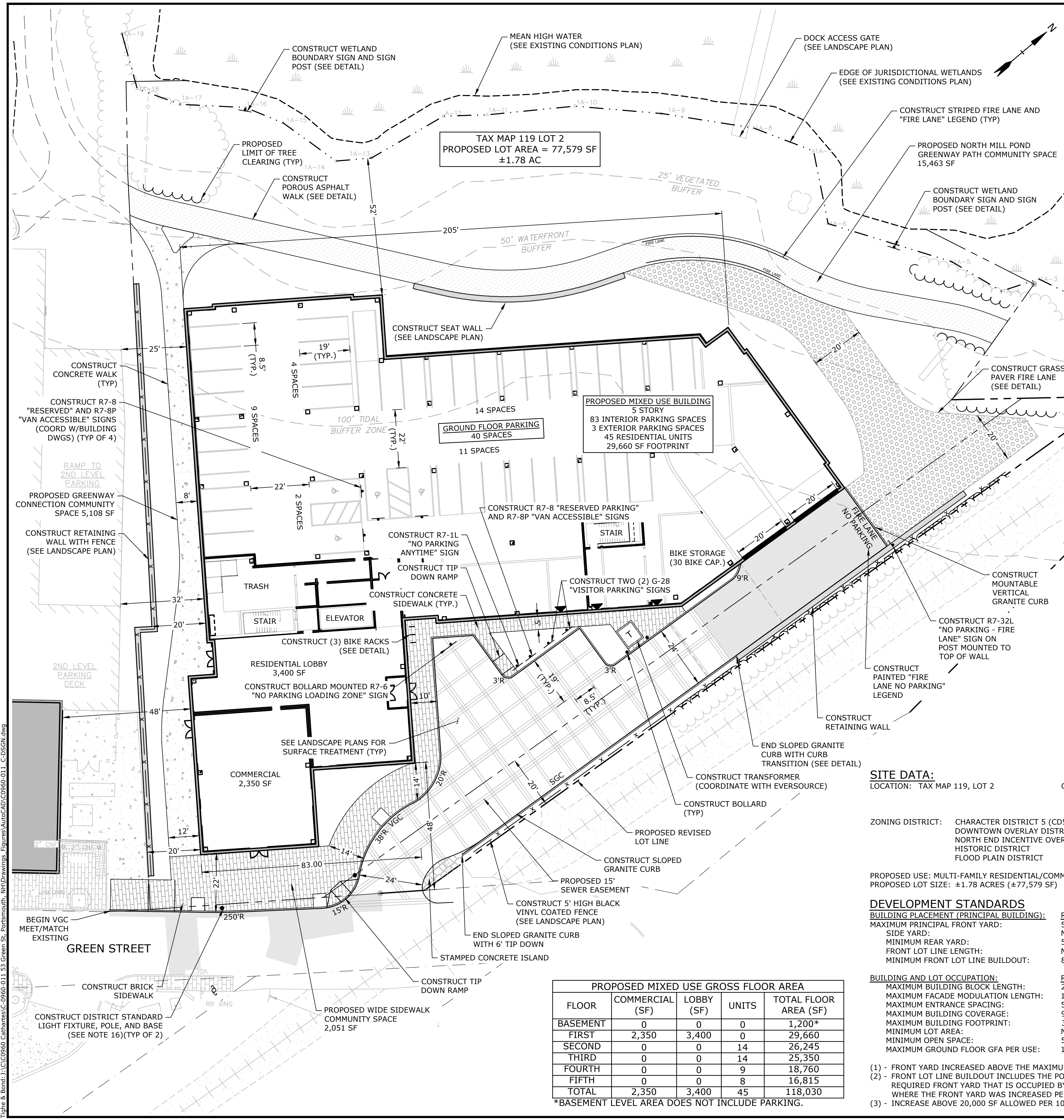
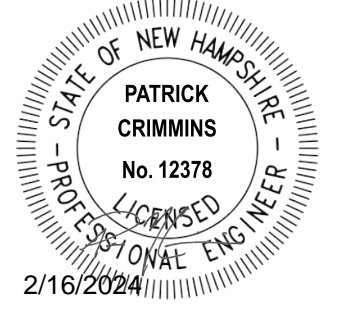
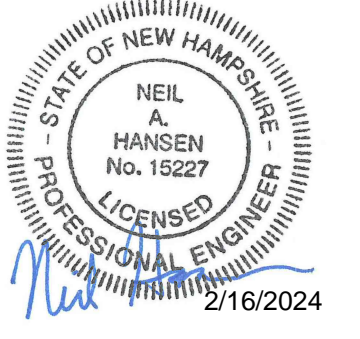
PROJECT NO:	C0960-011
DATE:	January 27, 2021
FILE:	C0960-011_C-DSGN.DWG
DRAWN BY:	AFS
CHECKED:	NAH
APPROVED:	PMC

DEMOLITION PLAN

SCALE: AS SHOWN

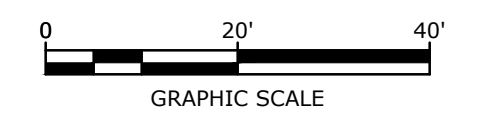


Last Saved: 1/31/2024 10:49:49 AM By: NWL/COX
 Plotted On: Jan 31, 2024 10:49:49 AM
 Tighe & Bond File: C:\Projects\C0960-011_53 Green St., Portsmouth, NH\Drawings_Figures\AutoCAD\C0960-011_C-DSGN.dwg



- SITE NOTES:**
1. STRIPE PARKING AREAS AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, ADA SYMBOLS, PAINTED ISLANDS, CROSS WALKS, ARROWS, LEGENDS AND CENTERLINES SHALL BE THERMOPLASTIC MATERIAL. THERMOPLASTIC MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO M249. (ALL MARKINGS EXCEPT CENTERLINE AND MEDIAN ISLANDS TO BE CONSTRUCTED USING WHITE TRAFFIC PAINT. CENTERLINE AND MEDIAN ISLANDS TO BE CONSTRUCTED USING YELLOW TRAFFIC PAINT. ALL TRAFFIC PAINT SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "F").
 2. ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.
 3. SEE DETAILS FOR PARKING STALL MARKINGS, ADA SYMBOLS, SIGNS AND SIGN POSTS.
 4. CENTERLINES SHALL BE FOUR (4) INCH WIDE YELLOW LINES. STOP BARS SHALL BE EIGHTEEN (18) INCHES WIDE.
 5. PAINTED ISLANDS SHALL BE FOUR (4) INCH WIDE DIAGONAL LINES AT 3'-0" O.C. BORDERED BY FOUR (4) INCH WIDE LINES.
 6. THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED LAND SURVEYOR TO DETERMINE ALL LINES AND GRADES.
 7. CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAW CUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.
 8. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND CITY CODES & SPECIFICATIONS.
 9. COORDINATE ALL WORK WITHIN PUBLIC RIGHT OF WAYS WITH THE CITY OF PORTSMOUTH.
 10. CONTRACTOR TO SUBMIT AS-BUILT PLANS ON REPRODUCIBLE MYLARS AND IN DIGITAL FORMAT (.DWG FILE) ON DISK TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR.
 11. SEE BUILDING DRAWINGS FOR ALL CONCRETE PADS & SIDEWALKS ADJACENT TO BUILDING.
 12. ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS.
 13. CONTRACTOR TO PROVIDE BACKFILL AND COMPACTION AT CURB LINE AFTER CONCRETE FORMS FOR SIDEWALKS AND PADS HAVE BEEN STRIPPED. COORDINATE WITH BUILDING CONTRACTOR.
 14. COORDINATE ALL WORK ADJACENT TO BUILDING WITH BUILDING CONTRACTOR.
 15. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 16. THE STREET LIGHTING TYPE TO BE DISTRICT STYLE FIXTURE AND POLE TO MATCH EXISTING LIGHTING ON GREEN STREET.
 17. ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
 18. THE APPLICANT SHALL HAVE A SITE SURVEY CONDUCTED BY A RADIO COMMUNICATIONS CARRIER APPROVED BY THE CITY'S COMMUNICATIONS DIVISION. THE RADIO COMMUNICATIONS CARRIER MUST BE FAMILIAR AND CONVERSANT WITH THE POLICE AND RADIO CONFIGURATION. IF THE SITE SURVEY INDICATES IT IS NECESSARY TO INSTALL A SIGNAL REPEATER EITHER ON OR NEAR THE PROPOSED PROJECT, THOSE COSTS SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE OWNER SHALL COORDINATE WITH THE SUPERVISOR OF RADIO COMMUNICATIONS FOR THE CITY.
 19. ALL TREES PLANTED ARE TO BE INSTALLED UNDER THE SUPERVISION OF THE CITY OF PORTSMOUTH DPW USING STANDARD INSTALLATION METHODS.
 20. THE APPLICANT SHALL PREPARE A CONSTRUCTION MITIGATION AND MANAGEMENT PLAN (CMMP) FOR REVIEW AND APPROVAL BY THE CITY'S LEGAL AND PLANNING DEPARTMENTS.
 21. A TEMPORARY SUPPORT OF EXCAVATION (SOE) PLAN SHALL BE PREPARED BY THE APPLICANT'S CONTRACTOR TO CONFIRM ANY TEMPORARY ENCUMBRANCES OF THE CITY'S RIGHT-OF-WAY. IF LICENSES ARE REQUIRED FOR THE SOE, THE APPLICANT WILL BE REQUIRED TO OBTAIN THESE FROM THE CITY PRIOR TO CONSTRUCTION.
 22. ALL EXCESS SNOW SHALL BE HAULED OFF-SITE IN ACCORDANCE TO ALL LOCAL AND STATE LAWS. PROPOSED SNOW STAGING AREAS HAVE BEEN PROVIDED TO SHOW TEMPORARY SNOW STORAGE AREAS.
 23. AREAS DESIGNATED FOR FIRE EMERGENCY ACCESS SHALL BE KEPT CLEAR OF SNOW.

- SITE RECORDING NOTES:**
1. THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
 2. ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.
 3. THIS IS NOT A BOUNDARY SURVEY AND SHALL NOT BE USED AS SUCH.



LEGEND

--- (dashed line)	PROPERTY LINE	[Pattern]	PROPOSED POROUS PAVEMENT
--- (dotted line)	PROPOSED PROPERTY LINE	[Pattern]	PROPOSED PAVEMENT
--- (dash-dot line)	ABUTTER PROPERTY LINE	[Pattern]	PROPOSED GRASS PAVER FIRE LANE TYPICAL
--- (solid line)	PROPOSED EASEMENT	[Pattern]	PROPOSED CURB RADIUS
--- (solid line)	PROPOSED EDGE OF PAVEMENT	[Pattern]	PROPOSED VERTICAL GRANITE CURB
--- (solid line)	PROPOSED CURB	TYP	PROPOSED SLOPED GRANITE CURB
[Pattern]	PROPOSED BUILDING	30'R	SOLID WHITE LINE CAPACITY
[Pattern]	PROPOSED BRICK SIDEWALK	VGC	
[Pattern]	PROPOSED CONCRETE SIDEWALK	SGC	
[Pattern]	PROPOSED STAMPED CONCRETE	SWL	
[Pattern]		CAP	

SITE DATA:
 LOCATION: TAX MAP 119, LOT 2
 OWNER: STONE CREEK REALTY LLC
 C/O DOUGLAS PINCIARO
 PO BOX 121
 NEW CASTLE, NH 03854

ZONING DISTRICT: CHARACTER DISTRICT 5 (CD5)
 DOWNTOWN OVERLAY DISTRICT
 NORTH END INCENTIVE OVERLAY DISTRICT
 HISTORIC DISTRICT
 FLOOD PLAIN DISTRICT

PROPOSED USE: MULTI-FAMILY RESIDENTIAL/COMMERCIAL
PROPOSED LOT SIZE: ±1.78 ACRES (±77,579 SF)

DEVELOPMENT STANDARDS

BUILDING PLACEMENT (PRINCIPAL BUILDING):	REQUIRED	PROPOSED
MAXIMUM PRINCIPAL FRONT YARD:	5 FT	48 FT ⁽¹⁾
SIDE YARD:	NR	NR
MINIMUM REAR YARD:	5 FT	52 FT
FRONT LOT LINE LENGTH:	NR	103.66 FT
MINIMUM FRONT LOT LINE BUILDOUT:	80% (82.9 FT)	80.1% (83.0 FT) ⁽²⁾

BUILDING AND LOT OCCUPATION:

	REQUIRED	PROPOSED
MAXIMUM BUILDING BLOCK LENGTH:	225 FT	205 FT
MAXIMUM FACADE MODULATION LENGTH:	100 FT	<100 FT
MAXIMUM ENTRANCE SPACING:	50 FT	<50 FT
MAXIMUM BUILDING COVERAGE:	95%	38%
MAXIMUM BUILDING FOOTPRINT:	30,000 SF ⁽³⁾	29,660 SF
MINIMUM LOT AREA:	NR	NR
MINIMUM OPEN SPACE:	5%	35%
MAXIMUM GROUND FLOOR GFA PER USE:	15,000 SF	3,400 SF

BUILDING FORM (PRINCIPAL BUILDING):

BUILDING HEIGHT:	REQUIRED	PROPOSED
	5 STORIES ⁽⁴⁾	5 STORIES
MAXIMUM FINISHED FLOOR SURFACE OF GROUND FLOOR ABOVE SIDEWALK GRADE:	60 FT	<60 FT
MINIMUM GROUND STORY HEIGHT:	36 IN	0 IN
MINIMUM SECOND STORY HEIGHT:	12 FT	>12 FT
FACADE GLAZING:	10 FT	>10 FT

COMMUNITY SPACE:

	REQUIRED	PROPOSED
	20%	29%
	15,516 SF	22,622 SF

PARKING REQUIREMENTS

	REQUIRED	PROPOSED
RESIDENTIAL UNITS (>750 SF)	45 UNITS x 1.3 SPACES	59 SPACES
VISITOR SPACES	1 SPACE / 5 UNITS	9 SPACES
DOWNTOWN OVERLAY DISTRICT		-4 SPACES
TOTAL MINIMUM PARKING SPACES REQUIRED =		64 SPACES

PARKING SPACES

	REQUIRED	PROPOSED
	64 SPACES	86 SPACES

ADA PARKING SPACES

	REQUIRED	PROPOSED
	4 SPACES	5 SPACES

BICYCLE SPACES

	REQUIRED	PROPOSED
1 BICYCLE SPACE / 10 PARKING SPACES:	10 SPACES	30 SPACES

*INDOOR BIKE STORAGE WILL BE PROVIDED THAT MEETS OR EXCEEDS REQUIRED.

PROPOSED MIXED USE GROSS FLOOR AREA

FLOOR	COMMERCIAL (SF)	LOBBY (SF)	UNITS	TOTAL FLOOR AREA (SF)
BASEMENT	0	0	0	1,200*
FIRST	2,350	3,400	0	29,660
SECOND	0	0	14	26,245
THIRD	0	0	14	25,350
FOURTH	0	0	9	18,760
FIFTH	0	0	8	16,815
TOTAL	2,350	3,400	45	118,030

*BASEMENT LEVEL AREA DOES NOT INCLUDE PARKING.

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Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
 Portsmouth, NH

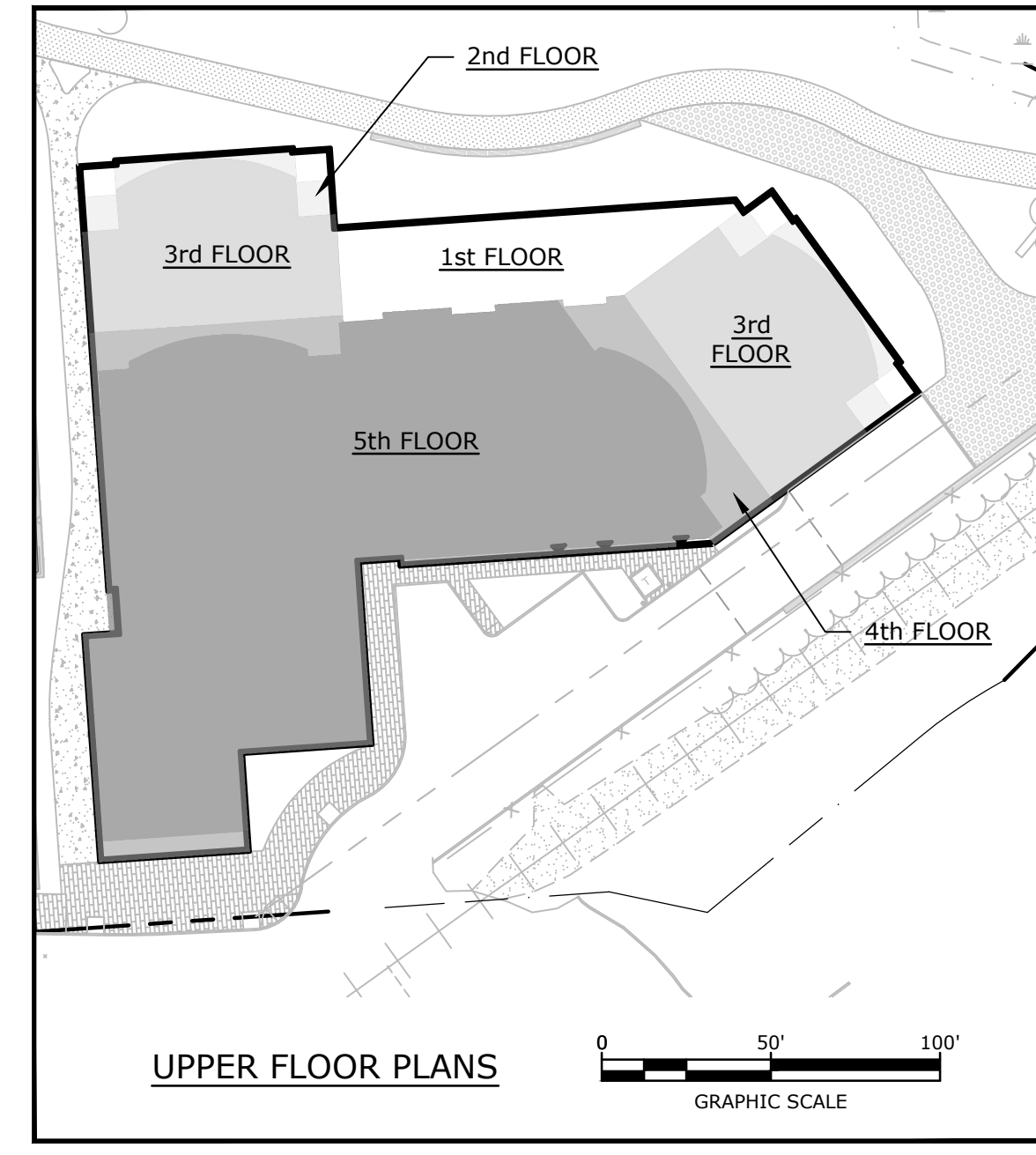
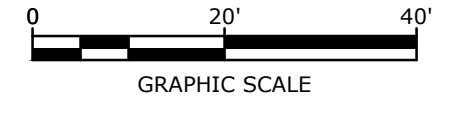
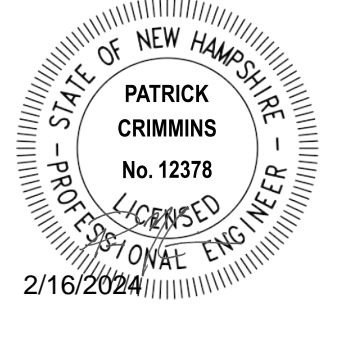
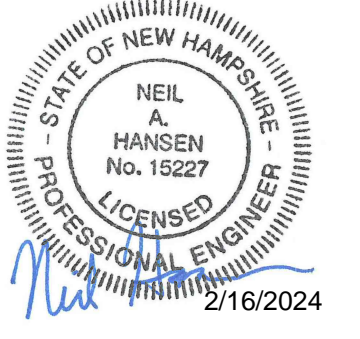
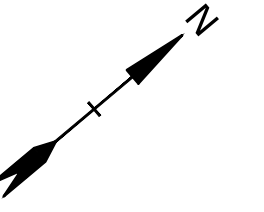
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CHECKED:	NAH
APPROVED:	PMC

SITE PLAN

SCALE: AS SHOWN

C-102.1



Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
Portsmouth, NH

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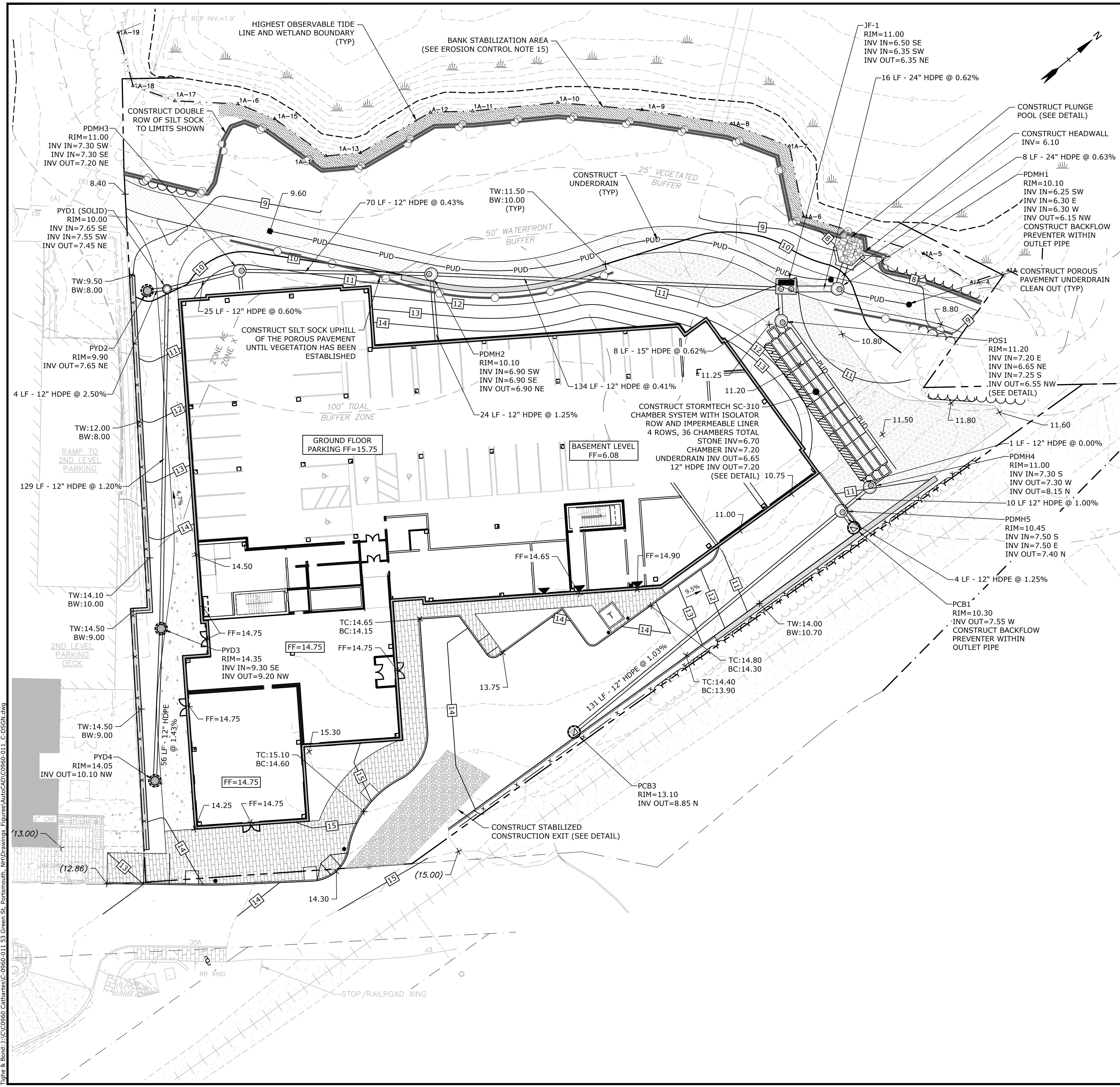
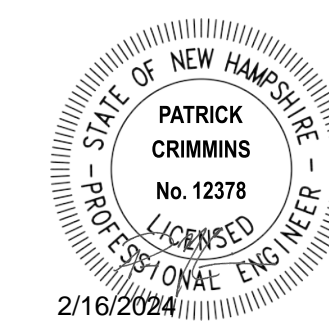
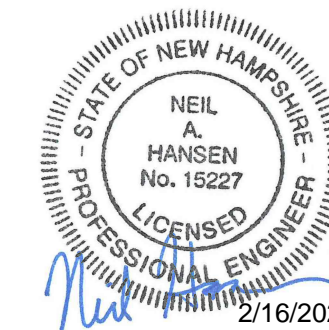
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APPROVED:	PMC

BASEMENT & UPPER FLOOR PLAN

SCALE: AS SHOWN

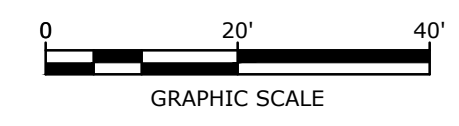
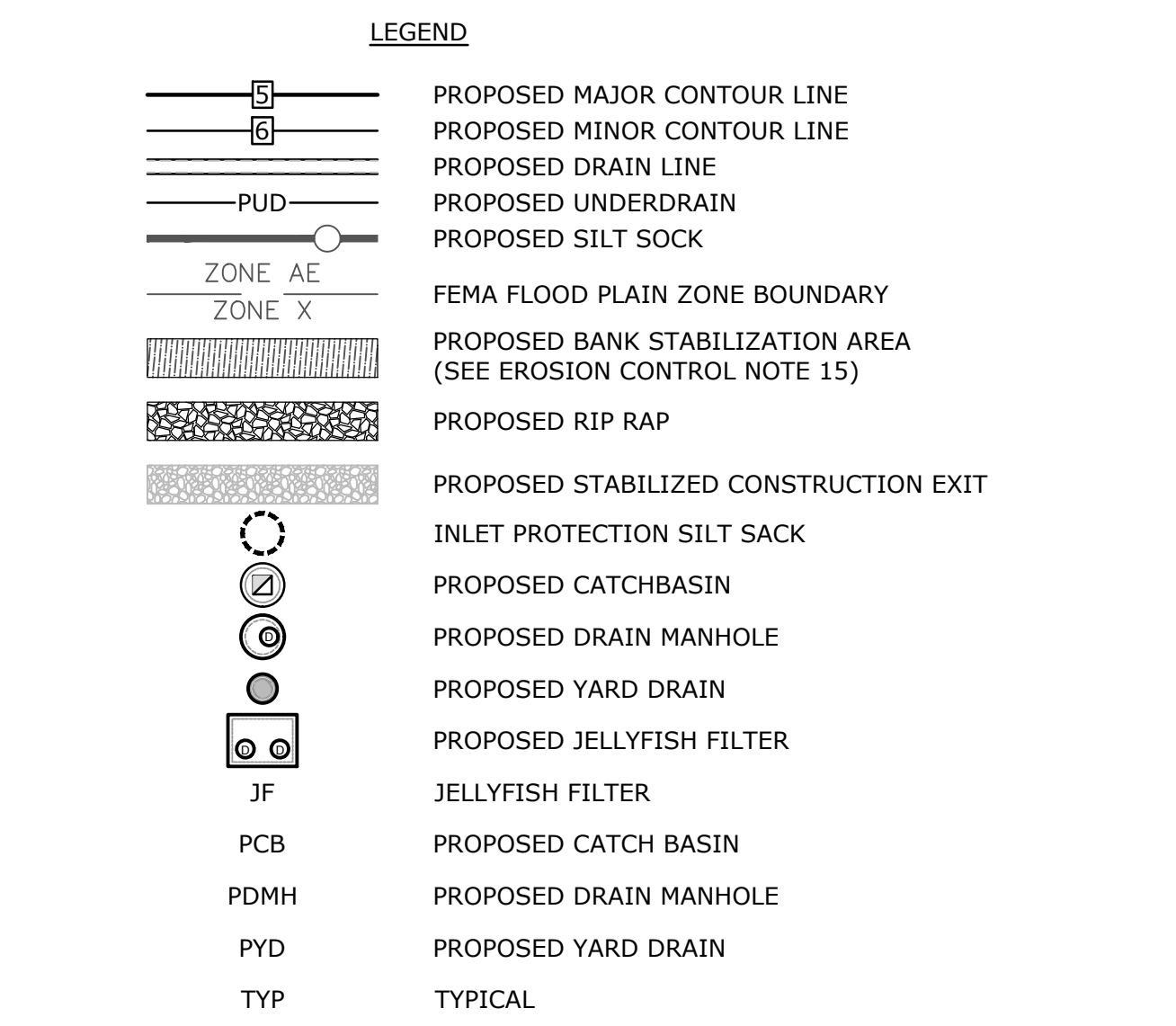
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- GRADING AND DRAINAGE NOTES:**
1. COMPACTION REQUIREMENTS:
BELOW PAVED OR CONCRETE AREAS 95%
TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL 95%
BELOW LOAM AND SEED AREAS 90%
* ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.
 2. ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR EQUAL), UNLESS OTHERWISE SPECIFIED.
 3. SEE UTILITY PLAN FOR ALL SITE UTILITY INFORMATION.
 4. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
 5. CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, RAMPS AND LOADING DOCK AREAS ADJACENT TO THE BUILDING.
 6. CONTRACTOR SHALL THOROUGHLY CLEAN ALL CATCH BASINS AND DRAIN LINES, WITHIN THE LIMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
 7. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
 8. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
 9. ALL STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NHDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.
 10. ALL PROPOSED CATCH BASINS SHALL BE EQUIPPED WITH OIL/GAS SEPARATOR HOODS AND 4" SUMPS.
 11. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS AND CONSTRUCTION SPECIFICATIONS, LATEST REVISIONS.
 12. CONTRACTOR TO SUBMIT AS-BUILT PLANS ON REPRODUCIBLE MYLARS AND IN DIGITAL FORMAT (.DWG FILE) ON DISK TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER.
 13. SEE EXISTING CONDITIONS PLAN FOR BENCH MARK INFORMATION.
 14. ALL DRAIN LINES WITH LESS THAN FOUR (4) FEET OF COVER SHALL BE INSULATED.
 15. THE INSIDE OF THE DRAINAGE STRUCTURE SHALL BE TREATED WITH A SILOXANE COATING. SILOXANE COATING SHALL BE SIKAGARD-705L OR APPROVED EQUAL.

- EROSION CONTROL NOTES:**
1. INSTALL EROSION CONTROL BARRIERS AS SHOWN AS FIRST ORDER OF WORK.
 2. SEE GENERAL EROSION CONTROL NOTES ON "EROSION CONTROL NOTES & DETAILS SHEET".
 3. PROVIDE INLET PROTECTION AROUND ALL EXISTING AND PROPOSED CATCH BASIN INLETS WITHIN THE WORK LIMITS. MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED.
 4. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
 5. INSPECT INLET PROTECTION AND PERIMETER EROSION CONTROL MEASURES DAILY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.
 6. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED, FERTILIZER AND MULCH.
 7. CONSTRUCT EROSION CONTROL BLANKET ON ALL SLOPES STEEPER THAN 3:1.
 8. PRIOR TO ANY WORK OR SOIL DISTURBANCE COMMENCING ON THE SUBJECT PROPERTY, INCLUDING MOVING OF EARTH, THE APPLICANT SHALL INSTALL ALL EROSION AND SILTATION MITIGATION AND CONTROL MEASURES AS REQUIRED BY STATE AND LOCAL PERMITS AND APPROVALS.
 9. CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, SPRINKLING WATER ON UNSTABLE SOILS SUBJECT TO ARID CONDITIONS.
 10. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
 11. ALL CATCH BASIN SUMPS AND PIPING SHALL BE THOROUGHLY CLEANED TO REMOVE ALL SEDIMENT AND DEBRIS AFTER THE PROJECT HAS BEEN FULLY PAVED.
 12. TEMPORARY SOIL STOCKPILE SHALL BE SURROUNDED BY SILT FENCE AND SHALL BE STABILIZED BY TEMPORARY EROSION CONTROL SEEDING. STOCKPILE AREAS TO BE LOCATED AS FAR AS POSSIBLE FROM THE DELINEATED EDGE OF WETLANDS.
 13. SAFETY FENCING SHALL BE PROVIDED AROUND STOCKPILES OVER 10 FT.
 14. CONCRETE TRUCKS WILL BE REQUIRED TO WASH OUT (IF NECESSARY) SHOOTS ONLY WITHIN AREAS WHERE CONCRETE HAS BEEN PLACED. NO OTHER WASH OUT WILL BE ALLOWED.
 15. THE BANK STABILIZATION AREA SHALL BE REVIEWED BY THE CONTRACTOR UPON THE START OF CONSTRUCTION ACTIVITIES AND INSTALL EROSION CONTROL BLANKET ON ANY AREA EXHIBITING ACTIVE EROSION.
 16. THE FEMA 100-YEAR FLOOD PLAIN ZONE BOUNDARY IS IDENTIFIED ON THE PLAN. THE BASE FLOOD ELEVATION IS 8.76'.



Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
Portsmouth, NH

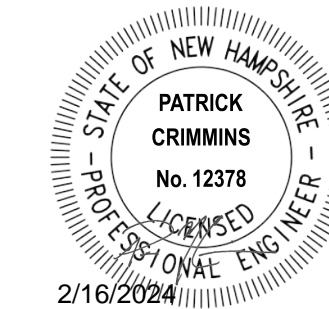
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APPROVED:	PMC

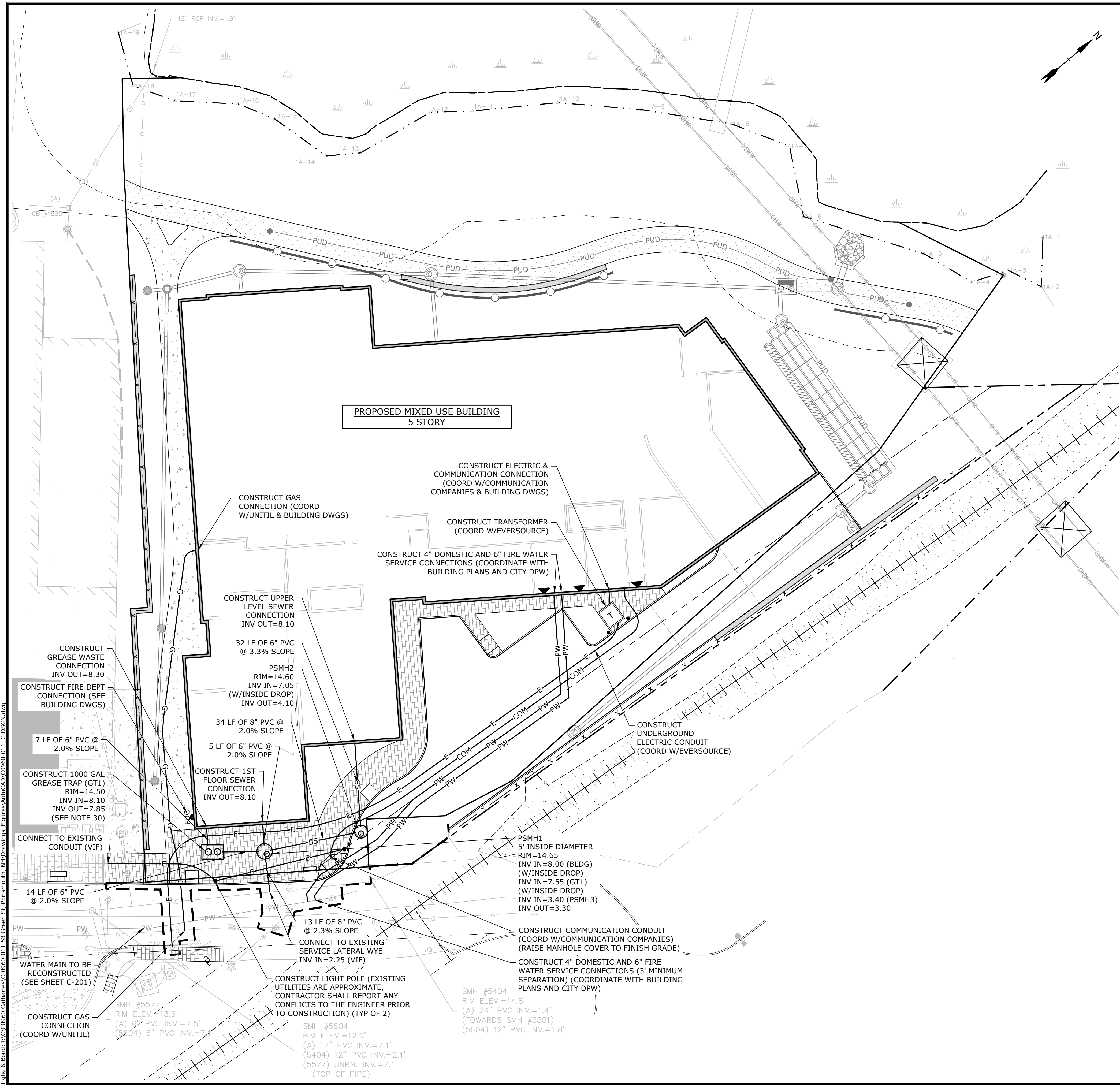
GRADING, DRAINAGE, AND EROSION CONTROL PLAN

SCALE: AS SHOWN

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- UTILITY NOTES:**
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES, AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
 - COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY.
 - NATURAL GAS - UNITIL
 - WATER/SEWER - CITY OF PORTSMOUTH
 - ELECTRIC - EVERSOURCE
 - COMMUNICATIONS - FAIRPOINT AND COMCAST
 - SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.
 - SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
 - ALL WATER MAIN INSTALLATIONS SHALL BE CLASS 52, CEMENT LINED DUCTILE IRON PIPE.
 - ALL WATER MAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION PRIOR TO ACTIVATING THE SYSTEM. CONTRACTOR SHALL COORDINATE CHLORINATION AND TESTING WITH THE PORTSMOUTH WATER DEPARTMENT.
 - ALL SEWER PIPE SHALL BE PVC SDR 35 UNLESS OTHERWISE STATED.
 - COORDINATE ALL WORK WITHIN PUBLIC RIGHT OF WAYS WITH THE CITY OF PORTSMOUTH.
 - CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ADJUTING PROPERTIES THROUGHOUT CONSTRUCTION.
 - CONNECTION TO EXISTING WATER MAIN SHALL BE CONSTRUCTED TO CITY OF PORTSMOUTH STANDARDS.
 - EXISTING UTILITIES TO BE REMOVED SHALL BE CAPPED AT THE MAIN AND MEET THE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR CAPPING OF WATER AND SEWER SERVICES.
 - ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
 - THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING DRAWINGS AND THE APPLICABLE UTILITY COMPANIES.
 - ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
 - ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
 - THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO THE COMPLETION OF THIS PROJECT.
 - THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
 - CONTRACTOR SHALL PROVIDE EXCAVATION, BEDDING, BACKFILL AND COMPACTION FOR NATURAL GAS SERVICES.
 - A 10-FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18-INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS.
 - THE CONTRACTOR SHALL CONTACT "DIG-SAFE" 72 HOURS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL HAVE THE "DIG-SAFE" NUMBER ON SITE AT ALL TIMES.
 - CONTRACTOR TO SUBMIT AS-BUILT PLANS ON REPRODUCIBLE MYLARS AND IN DIGITAL FORMAT (.DWG FILES) TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER.
 - SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN
 - HYDRANTS, GATE VALVES, FITTINGS, ETC. SHALL MEET THE REQUIREMENTS OF THE CITY OF PORTSMOUTH.
 - COORDINATE TESTING OF SEWER CONSTRUCTION WITH THE CITY OF PORTSMOUTH.
 - ALL SEWER PIPE WITH LESS THAN 5' OF COVER SHALL BE INSULATED.
 - CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY.
 - CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION, PARTICULARLY WATER MAIN AND GAS MAIN CONSTRUCTION AS TO MAINTAIN CONTINUOUS SERVICE TO ADJUTING PROPERTIES. CONTRACTOR SHALL COORDINATE TEMPORARY SERVICES TO ADJUTING WITH THE UTILITY COMPANY AND AFFECTED ADJUTING.
 - SITE LIGHTING SPECIFICATIONS, CONDUIT LAYOUT AND CIRCUITRY FOR PROPOSED SITE LIGHTING AND SIGN ILLUMINATION SHALL BE PROVIDED BY THE PROJECT ELECTRICAL ENGINEER.
 - CONTRACTOR SHALL PERFORM TEST PITS TO VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IF LOCATIONS DIFFER FROM PLAN.
 - PROPOSED GREASE TRAP AND GREASE WASTE SERVICE CONNECTION TO BE CONSTRUCTED IF PROPOSED COMMERCIAL SPACE BECOMES RESTAURANT USE.



LEGEND

SD	EXISTING STORM DRAIN	SS	EXISTING SANITARY SEWER
SS	EXISTING SANITARY SEWER TO BE ABANDONED	W	EXISTING WATER SERVICE
G	EXISTING GAS SERVICE	E	EXISTING UNDERGROUND ELECTRIC SERVICE
OHW	EXISTING OVERHEAD UTILITY SERVICE	SS	PREVIOUSLY APPROVED SEWER
SS	PROPOSED STORM DRAIN	SS	PROPOSED SANITARY SEWER
PW	PROPOSED WATER SERVICE	G	PROPOSED GAS SERVICE
E	PROPOSED STREET LIGHTING CONDUIT	PE&C	PROPOSED UNDERGROUND ELECTRIC AND COMMUNICATION SERVICE

⊙	EXISTING DRAIN MANHOLE	⊙	PROPOSED CATCHBASIN
⊙	EXISTING SEWER MANHOLE	⊙	PROPOSED DRAIN MANHOLE
⊙	PREVIOUSLY APPROVED SEWER MANHOLE	⊙	PROPOSED SEWER MANHOLE
⊙	EXISTING HYDRANT	⊙	PROPOSED WATER VALVE
⊙	EXISTING WATER VALVE	⊙	PROPOSED FIRE DEPARTMENT BUILDING CONNECTION
⊙	EXISTING WATER SHUTOFF	⊙	PROPOSED GAS VALVE
⊙	EXISTING ELECTRIC MANHOLE	⊙	PROPOSED LIGHT POLE BASE
⊙	EXISTING PAD MOUNTED TRANSFORMER	BLDG	BUILDING
⊙	EXISTING GAS VALVE	TYP	TYPICAL
⊙	EXISTING HANDHOLE	COORD	COORDINATE
⊙	EXISTING COMMUNICATION MANHOLE	VIF	VERIFY IN FIELD

Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
Portsmouth, NH

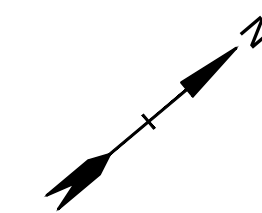
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CHECKED:	NAH
APPROVED:	PMC

UTILITIES PLAN

SCALE: AS SHOWN

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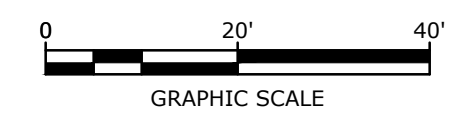
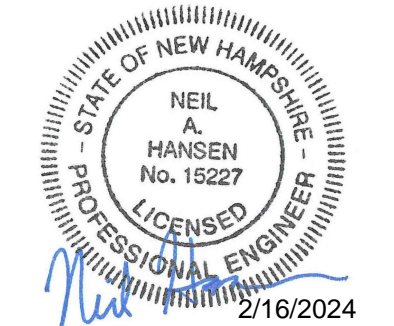


LEGEND

- PERMANENT PREVIOUSLY DEVELOPED TIDAL BUFFER ZONE IMPACT (25,340 SF)
- TEMPORARY PREVIOUSLY DEVELOPED TIDAL BUFFER ZONE IMPACT (7,493 SF)

NORTH MILL POND

HIGHEST OBSERVABLE TIDE LINE
ELEV. 4.3 FT NGVD1929
(SEE EXISTING CONDITIONS PLAN)



Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
Portsmouth, NH

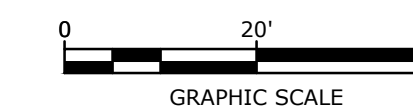
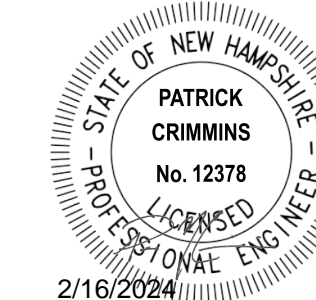
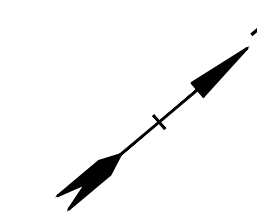
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 DATE: February 9, 2024
 FILE: C0960-011_C-FIGS-V2.DWG
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 CHECKED: NAH
 APPROVED: PMC

WETLANDS BUFFER IMPACT PLAN

SCALE: AS SHOWN

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**Proposed
Mixed Use
Development**

CPI
Management,
LLC

53 Green Street
Portsmouth, NH

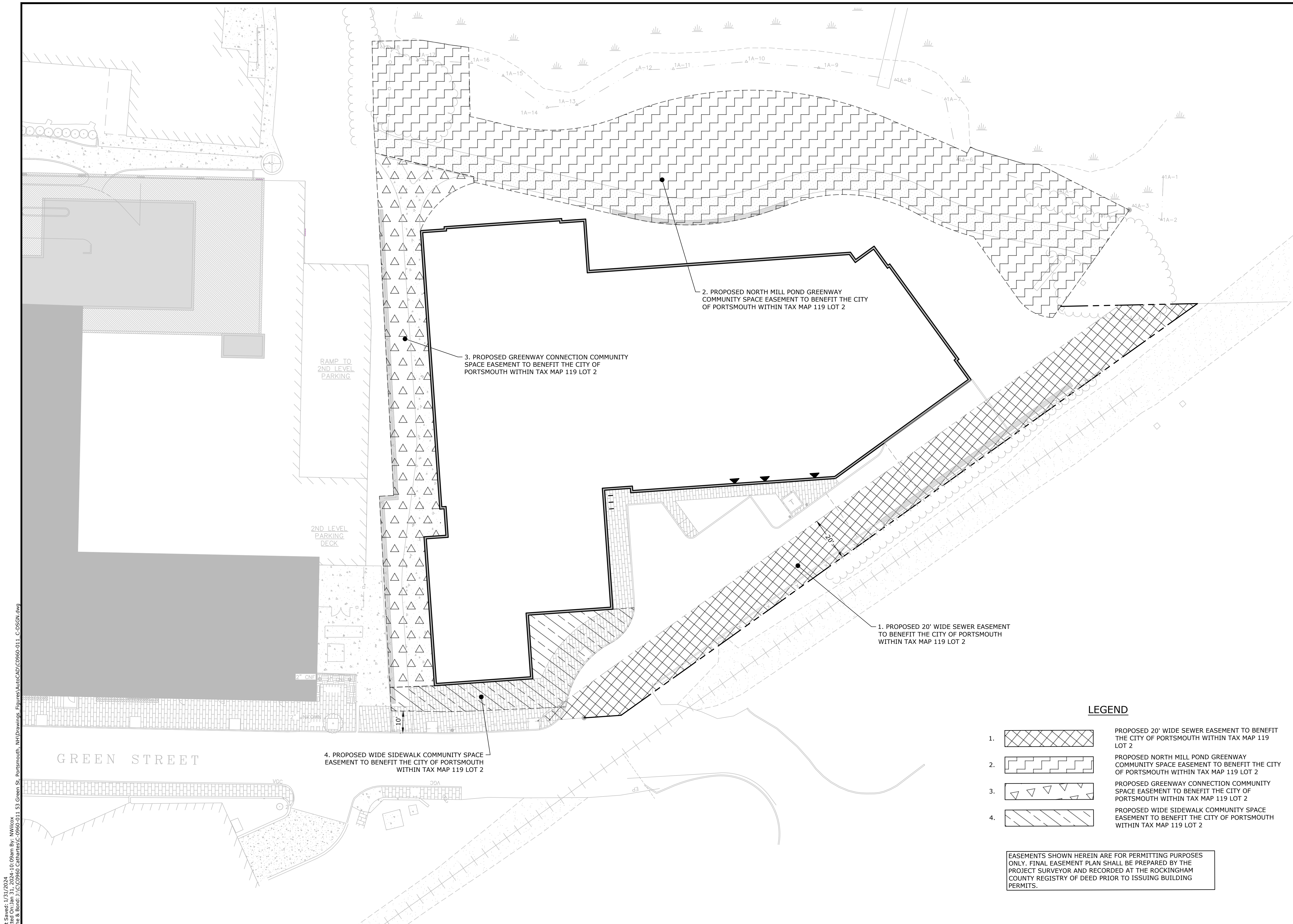
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G	7/20/2021	AsT Additional Info. Request
F	7/8/2021	AsT Resubmission
E	7/7/2021	PB Submission
D	5/19/2021	TAC Resubmission
C	4/21/2021	TAC Resubmission
B	3/22/2021	TAC & CC Submission
A	1/27/2021	CC Work Session

PROJECT NO:	C0960-011
DATE:	January 27, 2021
FILE:	C0960-011_C-DSGN.DWG
DRAWN BY:	AFS
CHECKED:	NAH
APPROVED:	PMC

EASEMENT PLAN

SCALE: AS SHOWN

C-301



- LEGEND**
- 1. PROPOSED 20' WIDE SEWER EASEMENT TO BENEFIT THE CITY OF PORTSMOUTH WITHIN TAX MAP 119 LOT 2
 - 2. PROPOSED NORTH MILL POND GREENWAY COMMUNITY SPACE EASEMENT TO BENEFIT THE CITY OF PORTSMOUTH WITHIN TAX MAP 119 LOT 2
 - 3. PROPOSED GREENWAY CONNECTION COMMUNITY SPACE EASEMENT TO BENEFIT THE CITY OF PORTSMOUTH WITHIN TAX MAP 119 LOT 2
 - 4. PROPOSED WIDE SIDEWALK COMMUNITY SPACE EASEMENT TO BENEFIT THE CITY OF PORTSMOUTH WITHIN TAX MAP 119 LOT 2

EASEMENTS SHOWN HEREIN ARE FOR PERMITTING PURPOSES ONLY. FINAL EASEMENT PLAN SHALL BE PREPARED BY THE PROJECT SURVEYOR AND RECORDED AT THE ROCKINGHAM COUNTY REGISTRY OF DEED PRIOR TO ISSUING BUILDING PERMITS.

Last Saved: 1/31/2024
 Plotted On: Jan 31, 2024 10:09am By: MW/icox
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PROJECT NAME AND LOCATION
PROPOSED MIXED USE DEVELOPMENT
53 GREEN STREET
PORTSMOUTH, NH 03801

43°-04'-48"N
70°-45'-43"W

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A FIVE-STORY MIXED USE RESIDENTIAL BUILDING WITH ASSOCIATED SITE IMPROVEMENTS.

DISTURBED AREA

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 1.75 ACRES.

SOIL CHARACTERISTICS

BASED ON THE NRCS WEB SOIL SURVEY FOR ROCKINGHAM COUNTY - NEW HAMPSHIRE, THE SOILS ON SITE CONSIST OF URBAN LAND.

NAME OF RECEIVING WATERS

THE STORMWATER RUNOFF FROM THE SITE WILL BE DISCHARGED VIA A PROPOSED OUTLET PIPE TO NORTH MILL POND AND WILL ULTIMATELY FLOW TO THE PISCATAQUA RIVER.

CONSTRUCTION SEQUENCE OF MAJOR ACTIVITIES:

- CUT AND CLEAR TREES.
- CONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS:
 - NEW CONSTRUCTION
 - CONTROL OF DUST
 - NEARNESS OF CONSTRUCTION SITE TO RECEIVING WATERS
 - CONSTRUCTION DURING LATE WINTER AND EARLY SPRING
- ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMPs PRIOR TO DIRECTING RUNOFF TO THEM.
- CLEAR AND DISPOSE OF DEBRIS.
- CONSTRUCT TEMPORARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED.
- GRADE AND GRAVEL ROADWAYS AND PARKING AREAS - ALL ROADS AND PARKING AREA SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER EROSION CONTROL MEASURES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.
- FINISH PAVING ALL ROADWAYS AND PARKING LOTS.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.
- COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

SPECIAL CONSTRUCTION NOTES:

- THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.
- 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.
- LIMIT THE LENGTH OF EXPOSURE OF UNSTABILIZED SOIL TO 45 DAYS OR LESS.

EROSION CONTROL NOTES:

- ALL EROSION CONTROL MEASURES AND PRACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE STORMWATER MANUAL VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION" PREPARED BY THE NHDES.
- PRIOR TO ANY WORK OR SOIL DISTURBANCE, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EROSION CONTROL MEASURES AS REQUIRED IN THE PROJECT MANUAL.
- CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL BARRIERS, INCLUDING HAY BALE, SILT FENCES, MULCH BERMS, INLET PROTECTION AND SILT SOCKS AS SHOWN IN THESE DRAWINGS AS THE FIRST ORDER OF WORK.
- INLET PROTECTION SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASIN INLETS WITHIN THE WORK LIMITS AND BE MAINTAINED FOR THE DURATION OF THE PROJECT.
- PERIMETER CONTROLS INCLUDING SILT FENCES, MULCH BERM, SILT SOCK, AND/OR HAY BALE BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL NON-PAVED AREAS HAVE BEEN STABILIZED.
- THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
- ALL DISTURBED AREAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED AND FERTILIZER.
- INSPECT ALL INLET PROTECTION AND PERIMETER CONTROLS WEEKLY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.
- CONSTRUCT EROSION CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 3:1.

STABILIZATION:

- AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED;
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- WINTER STABILIZATION PRACTICES:
 - ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, 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 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS;
 - AFTER OCTOBER 15, 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. OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT;
- STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE USED INCLUDE:
 - TEMPORARY SEEDING;
 - MULCHING.
- WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN THESE AREAS, SILT FENCES, MULCH BERMS, HAY BALE BARRIERS AND ANY EARTH/DIKES SHALL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.
- DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILT FENCES, MULCH BERMS, HAY BALE BARRIERS, OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY NOVEMBER 15.

DUST CONTROL:

- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.
- DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY

- MULCHING.
- DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ADJACENT AREAS.

STOCKPILES:

- LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS.
- ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE ONSET OF PRECIPITATION.
- PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.
- PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.

OFF SITE VEHICLE TRACKING:

- THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO ANY EXCAVATION ACTIVITIES.

VEGETATION:

- TEMPORARY GRASS COVER:
 - SEEDBED PREPARATION:
 - APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE;
 - SEEDING:
 - UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE;
 - WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED;
 - APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING;
 - MAINTENANCE:
 - TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.).
- VEGETATIVE PRACTICE:
 - FOR PERMANENT MEASURES AND PLANTINGS:
 - LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF THREE (3) TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5;
 - FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER;
 - SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2 POUNDS PER INCH OF WIDTH;
 - SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. 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 AS INDICATED ABOVE; 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 WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED;
 - THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED;
 - A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

SEED MIX	APPLICATION RATE
CREeping RED FESCUE	20 LBS/ACRE
TALL FESCUE	20 LBS/ACRE
REDTOP	2 LBS/ACRE

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE (1) PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLACE OVER SNOW.
 - DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL):
 - FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY SEED MIXTURE AT TWICE THE INDICATED RATE. APPLY MULCH AS INDICATED FOR PERMANENT MEASURES.

CONCRETE WASHOUT AREA:

- THE FOLLOWING ARE THE ONLY NON-STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES ARE PROHIBITED ON SITE:
 - THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT THEIR OWN PLANT OR DISPATCH FACILITY;
 - IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO HANDLE ANTICIPATED WASHOUT WATER;
 - CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEAST 150 FEET AWAY FROM STORM DRAINS, SWALES AND SURFACE WATERS OR DELINEATED WETLANDS;
 - INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE REMOVED.

ALLOWABLE NON-STORMWATER DISCHARGES:

- FIRE-FIGHTING ACTIVITIES;
- FIRE HYDRANT FLUSHING;
- WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED;
- WATER USED TO CONTROL DUST;
- POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING;
- ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED;
- PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED;
- UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION;
- UNCONTAMINATED GROUND WATER OR SPRING WATER;
- FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED;
- UNCONTAMINATED EXCAVATION DEWATERING;
- LANDSCAPE IRRIGATION.

WASTE DISPOSAL:

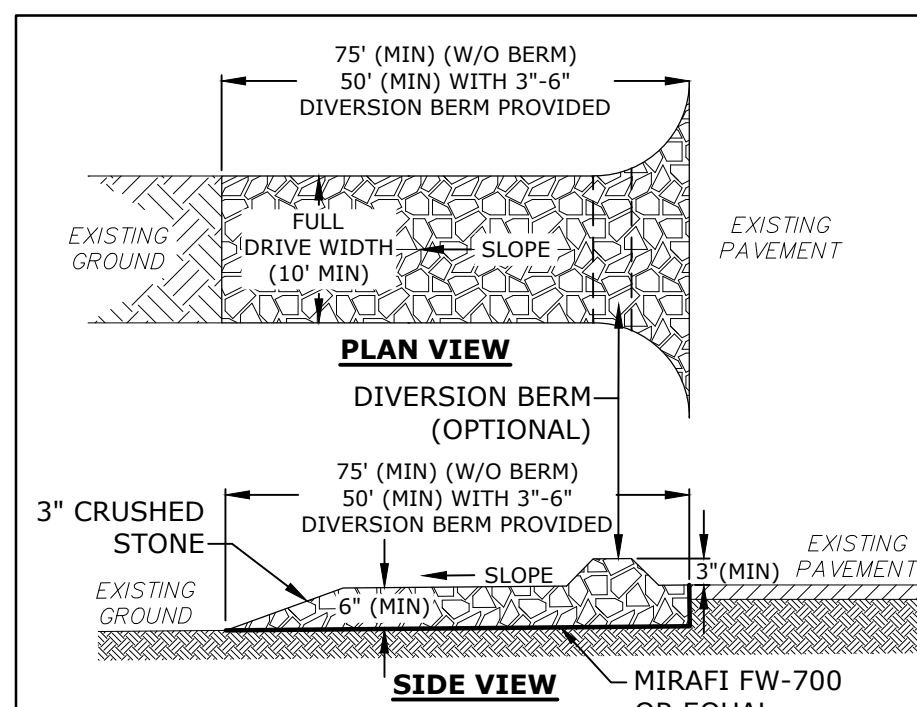
- WASTE MATERIAL:
 - ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER;
 - NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE;
 - ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
- HAZARDOUS WASTE:
 - ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER;
 - SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
- SANITARY WASTE:
 - ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

SPILL PREVENTION:

- CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW.
- THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
 - GOOD HOUSEKEEPING - THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION:
 - ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON SITE;
 - ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE;
 - MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED;
 - THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS;
 - SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER;
 - WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
 - HAZARDOUS PRODUCTS - THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
 - PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
 - ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION;
 - SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.
 - PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE:
 - PETROLEUM PRODUCTS:
 1. ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE;
 2. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
 - FERTILIZERS:
 1. FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS;
 2. ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER;
 3. STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
 - PAINTS:
 1. ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE;
 2. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM;
 3. EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
 - SPILL CONTROL PRACTICES - IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
 - MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;
 - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE;
 - ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;
 - THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE;
 - SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED;
 - THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
 - VEHICLE FUELING AND MAINTENANCE PRACTICE:
 - CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPMENT/VEHICAL FUELING AND MAINTENANCE AT AN OFF-SITE FACILITY;
 - CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY;
 - IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED;
 - CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA;
 - CONTRACTOR SHALL REGULARLY INSPECT VEHICLES FOR LEAKS AND DAMAGE;
 - CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN REPLACING SPENT FLUID.

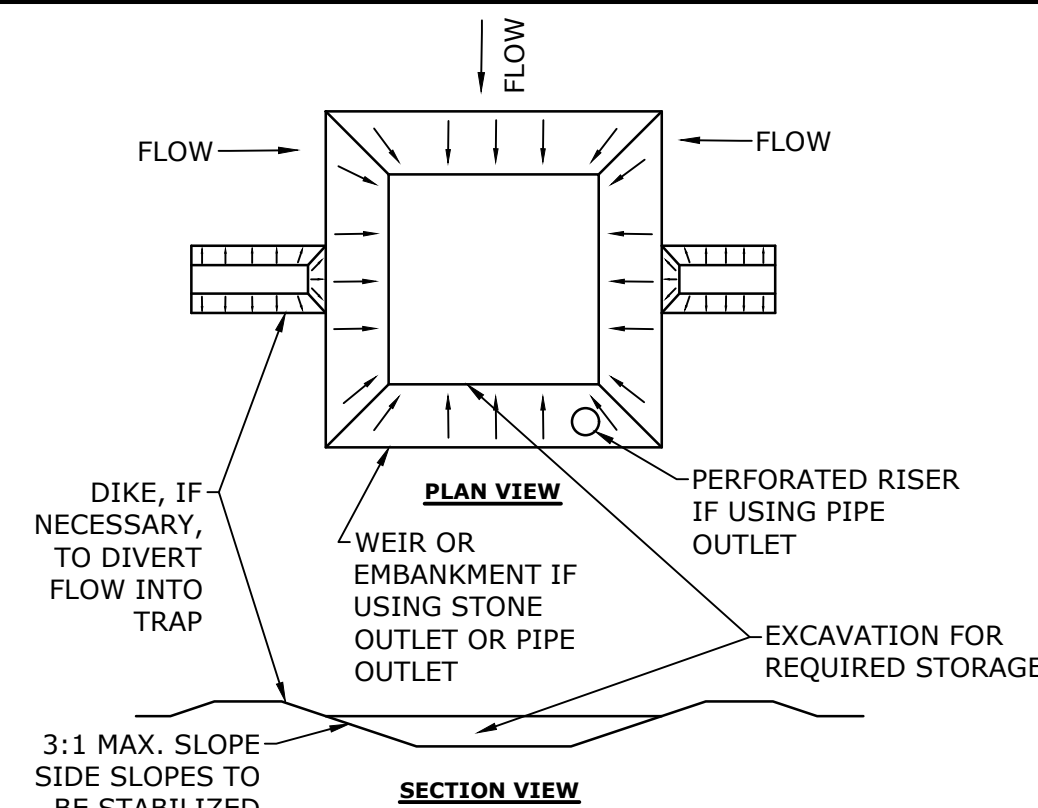
EROSION CONTROL OBSERVATIONS AND MAINTENANCE PRACTICES

- THIS PROJECT EXCEEDS ONE (1) ACRE OF DISTURBANCE AND THUS REQUIRES A SWPPP. THE SWPPP SHALL BE PREPARED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SWPPP AND KEEP AN UPDATED COPY OF THE SWPPP ON SITE AT ALL TIMES.
- THE FOLLOWING REPRESENTS THE GENERAL OBSERVATION AND REPORTING PRACTICES THAT SHALL BE FOLLOWED AS PART OF THIS PROJECT:
 - OBSERVATIONS OF THE PROJECT FOR COMPLIANCE WITH THE SWPPP SHALL BE MADE BY THE CONTRACTOR AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A STORM 0.25 INCHES OR GREATER;
 - AN OBSERVATION REPORT SHALL BE MADE AFTER EACH OBSERVATION AND DISTRIBUTED TO THE ENGINEER, THE OWNER, AND THE CONTRACTOR;
 - A REPRESENTATIVE OF THE SITE CONTRACTOR, SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES;
 - IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.



- NOTES:**
- THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT FROM THE SITE. WHEN WASHING IS REQUIRED, IT SHALL BE DONE SO RUNOFF DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS

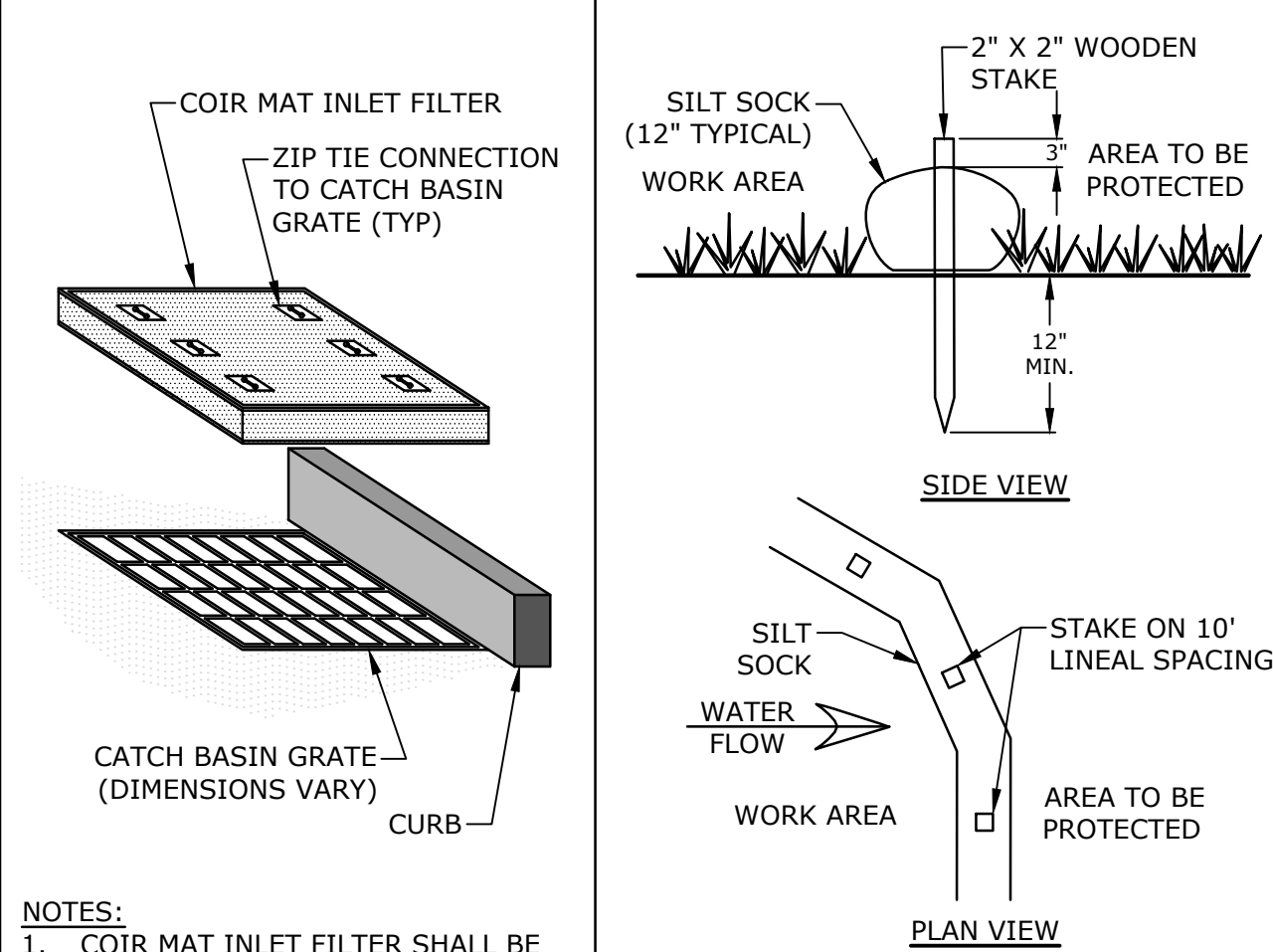
STABILIZED CONSTRUCTION EXIT
NO SCALE



NOTES:

- THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA AS POSSIBLE.
- THE MAXIMUM CONTRIBUTING AREA TO A SINGLE TRAP SHALL BE LESS THAN 5 ACRES.
- THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
- TRAP OUTLET SHALL BE MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP.
- TRAP SHALL DISCHARGE TO A STABILIZED AREA.
- TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED.
- MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.
- SEDIMENT TRAPS MUST BE USED AS NEEDED TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.

SEDIMENT TRAP
NO SCALE

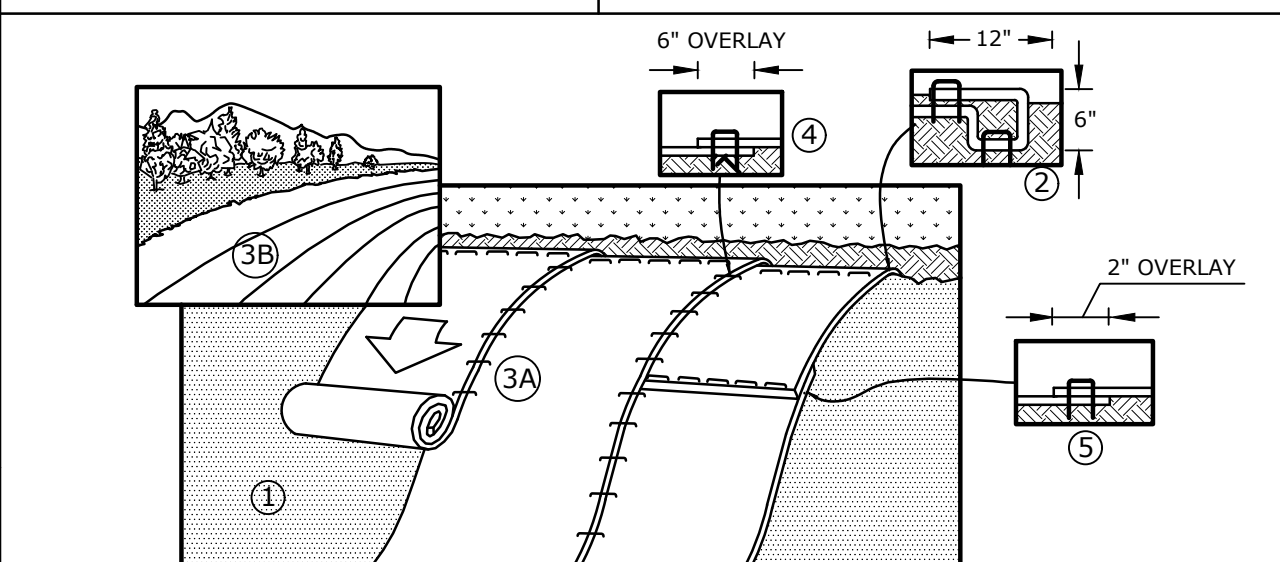


NOTES:

- COIR MAT INLET FILTER SHALL BE STORM WATER INLET FILTER BY BLOCKSOM & CO. OR APPROVED EQUAL.
- INSTALL AND MAINTAIN INLET PROTECTION IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

INLET PROTECTION
NO SCALE

SILT SOCK
NO SCALE



NOTES:

- EROSION CONTROL BLANKET SHALL BE AN ALL NATURAL PRODUCT WITH NO PHOTO DEGRADABLE COMPONENTS, NORTH AMERICAN GREEN SC1508N OR APPROVED EQUAL.
- STAKES SHALL BE BIODEGRADABLE BIOSTAKES OR ALL NATURAL WOOD ECOSTAKES OR APPROVED EQUAL. THE LENGTH OF STAKES SHALL BE BASED OFF OF THE MANUFACTURER'S RECOMMENDATION.
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, COMPOST AND SEED.
- BEGIN AT THE TOP OF THE SLOPE, 36" OVER THE GRADE BREAK, BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAKES IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAKES ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAKES IN APPROPRIATE LOCATIONS AS SHOWN ON THE MANUFACTURERS PATTERN GUIDE.

EROSION CONTROL BLANKET
NO SCALE

Tighe & Bond

STATE OF NEW HAMPSHIRE
PROFESSIONAL ENGINEER
NEIL A. HANSEN
No. 15227
LICENSED
2/16/2024

STATE OF NEW HAMPSHIRE
PROFESSIONAL ENGINEER
PATRICK CRIMMINS
No. 12378
LICENSED
2/16/2024

Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
Portsmouth, NH

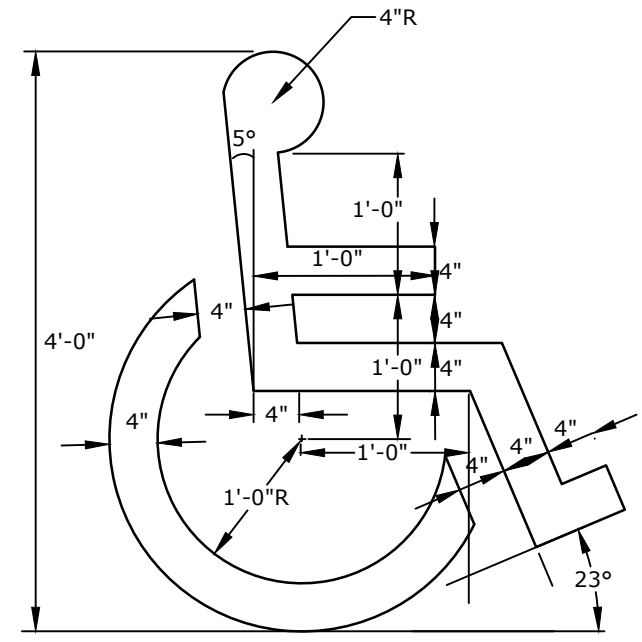
MARK	DATE	DESCRIPTION
J	2/16/2024	NHDES Wetland & Shoreland Submission
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PROJECT NO: C0960-011
DATE: January 27, 2021
FILE: C0960-011_C-DTLS.DWG
DRAWN BY: AFS
CHECKED: NAH
APPROVED: PMC

EROSION CONTROL NOTES AND DETAILS SHEET

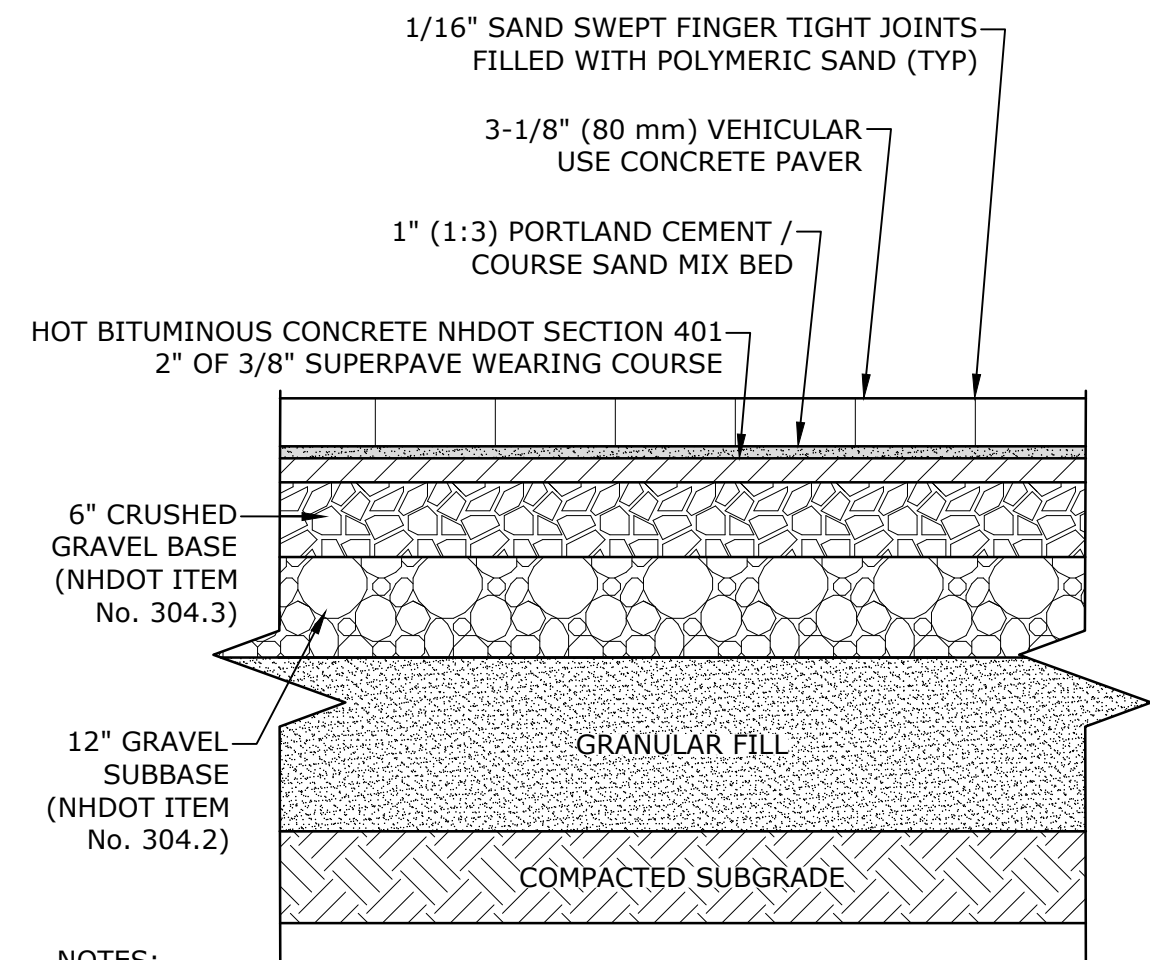
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C-501



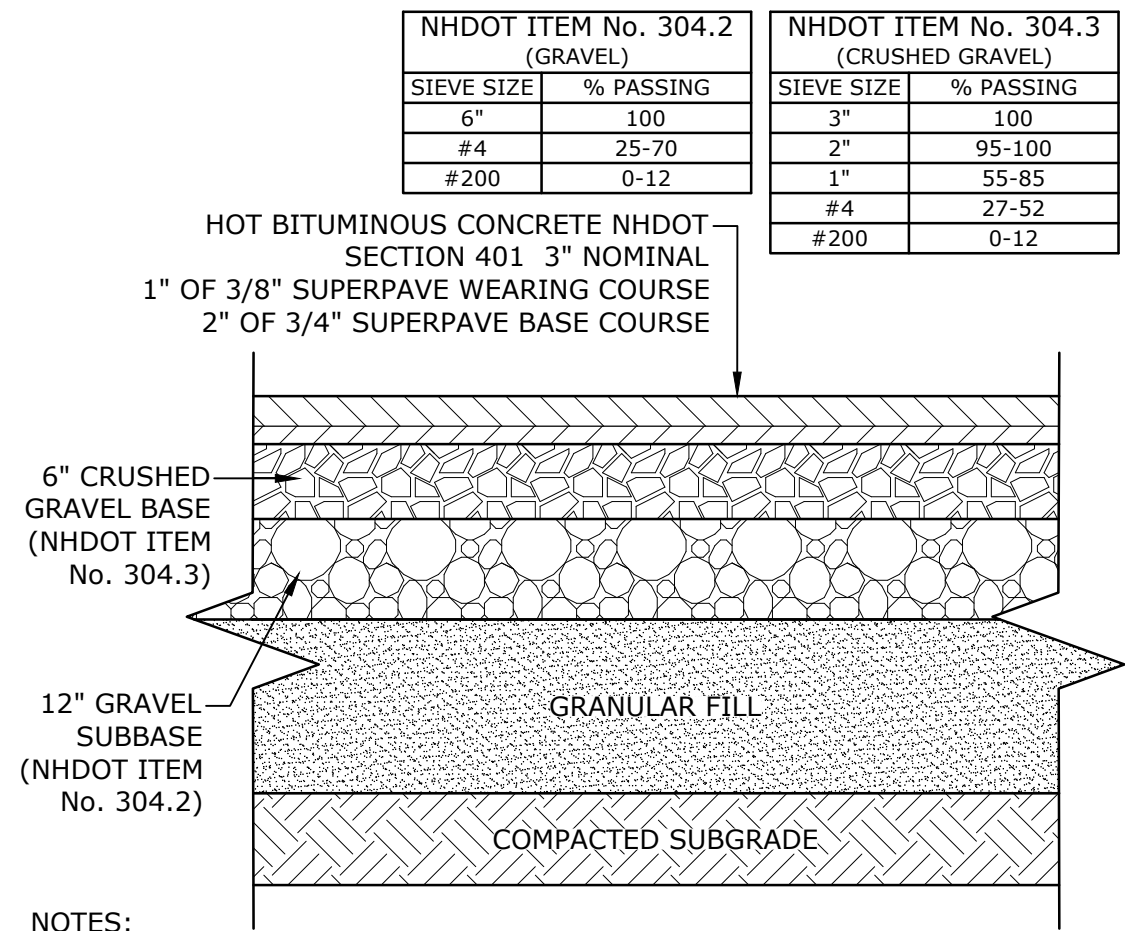
NOTES:
 1. SYMBOL SHALL BE CONSTRUCTED IN ALL ACCESSIBLE SPACES USING FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248-TYPE F. PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.
 2. SYMBOL SHALL BE CONSTRUCTED TO THE LATEST ADA, STATE AND LOCAL REQUIREMENTS.

ACCESSIBLE SYMBOL
NO SCALE



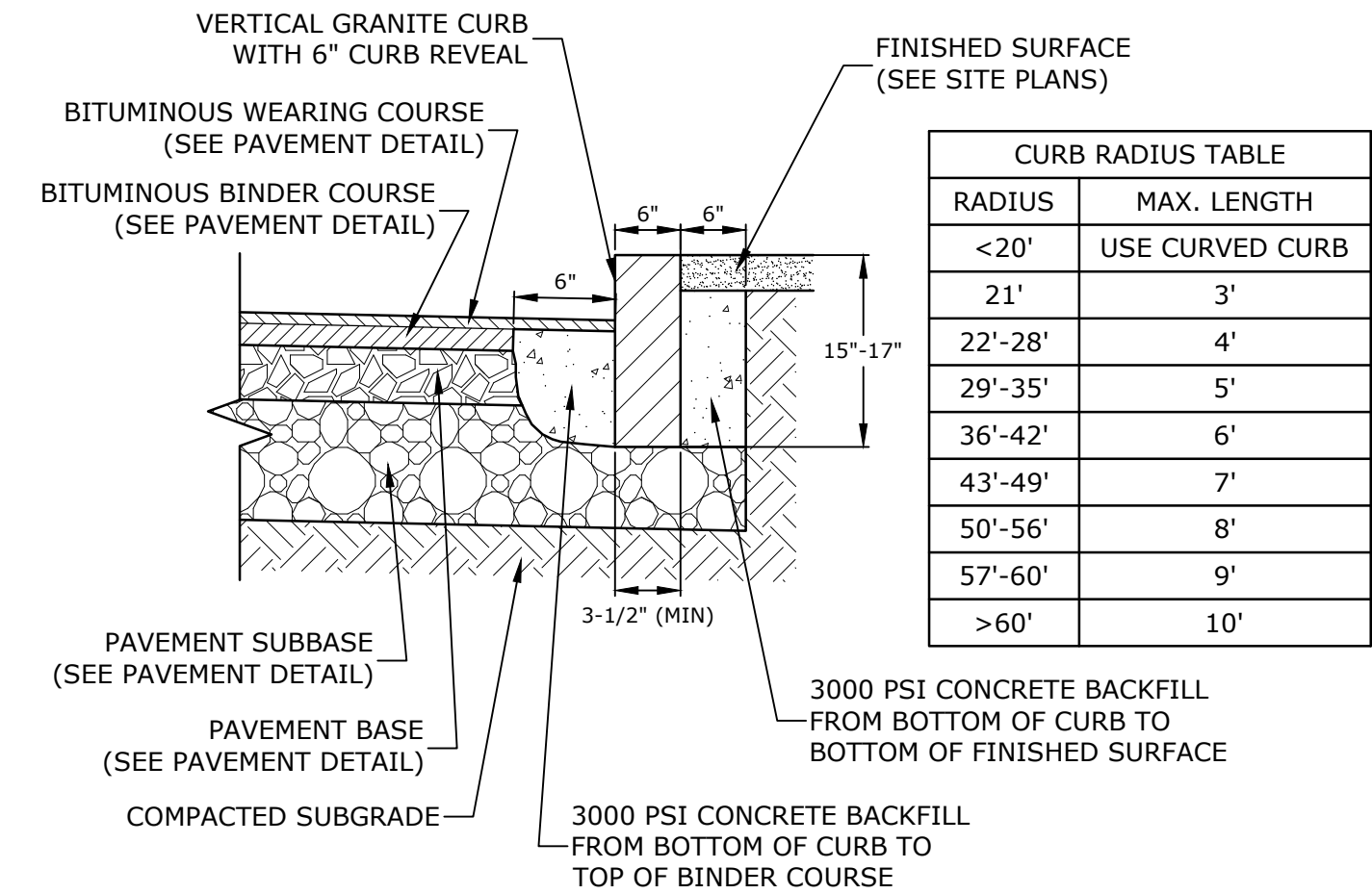
NOTES:
 1. SEE SITE PLAN FOR WIDTH AND LOCATION.
 2. SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR SLOPE AND CROSS-SLOPE.
 3. REFER TO CITY SPECIFICATIONS FOR ASPHALT MIX DESIGN.
 4. CONTRACTOR SHALL CONFIRM THIS PAVEMENT SECTION WITH THE PROJECT'S GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

VEHICULAR PAVER SECTION
NO SCALE



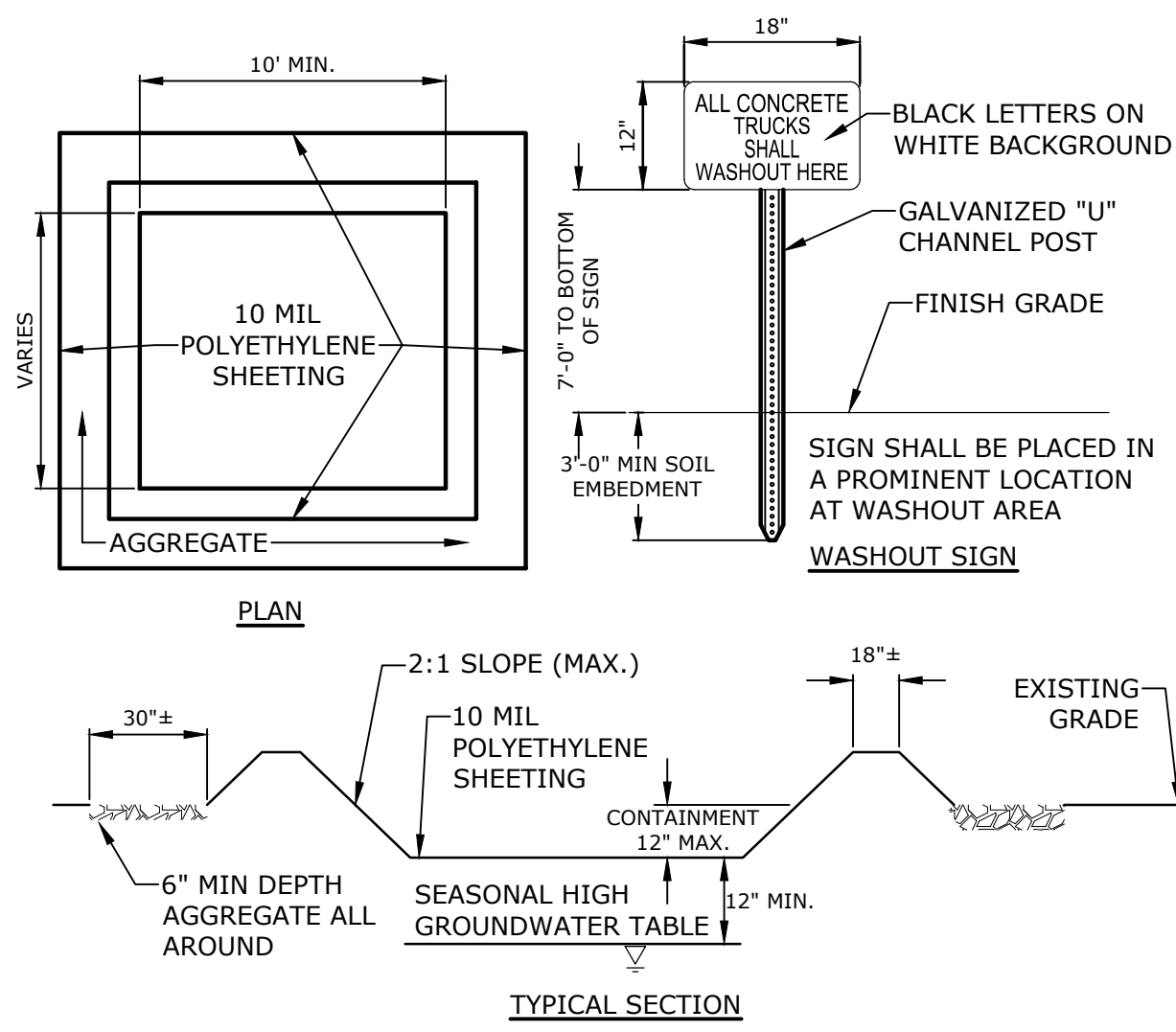
NOTES:
 1. SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION.
 2. SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.
 3. A TACK COAT SHALL BE PLACED ON TOP OF BINDER COURSE PAVEMENT PRIOR TO PLACING WEARING COURSE.
 4. REFER TO CITY SPECIFICATIONS FOR ASPHALT MIX DESIGN.
 5. CONTRACTOR SHALL CONFIRM THIS PAVEMENT SECTION WITH THE PROJECT'S GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

ON-SITE PAVEMENT SECTION
NO SCALE



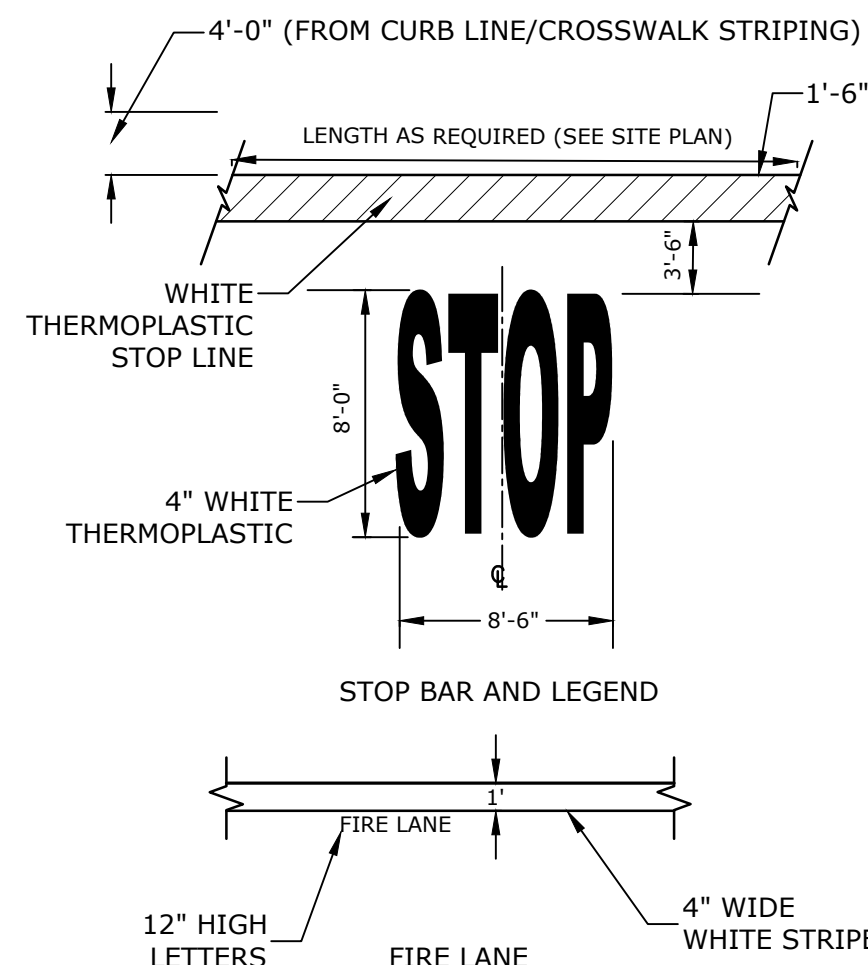
NOTES:
 1. SEE SITE PLAN(S) FOR LIMITS OF VERTICAL GRANITE CURB (VGC).
 2. ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
 3. MINIMUM LENGTH OF STRAIGHT CURB STONES = 3'
 4. MAXIMUM LENGTH OF STRAIGHT CURB STONES = 10'
 5. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES (SEE TABLE).
 6. ALL RADII 20 FEET AND SMALLER SHALL BE CONSTRUCTED USING CURVED SECTIONS.
 7. JOINTS BETWEEN STONES SHALL HAVE A MAXIMUM SPACING OF 1/2" AND SHALL BE MORTARED.

VERTICAL GRANITE CURB
NO SCALE



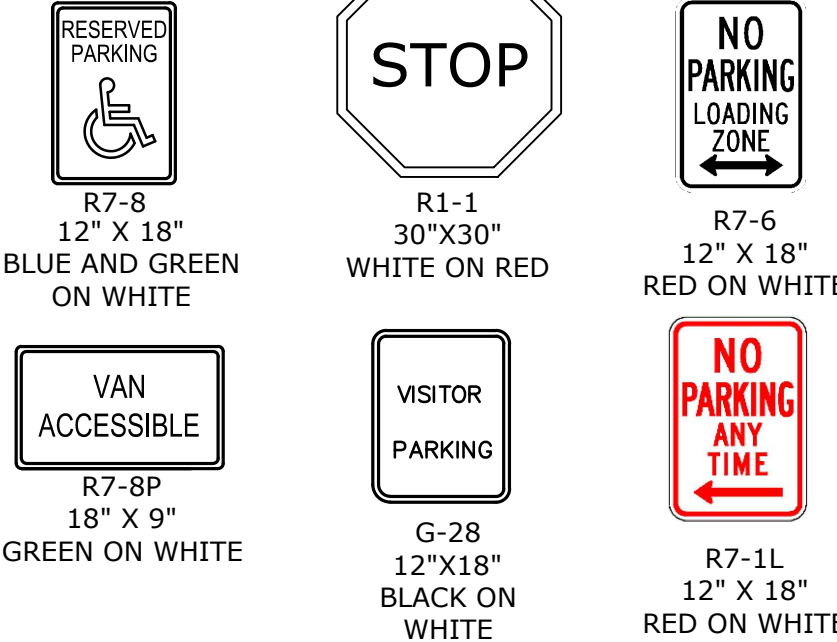
CONCRETE WASHOUT AREA
NO SCALE

NOTES:
 1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
 2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
 3. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
 4. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
 5. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.



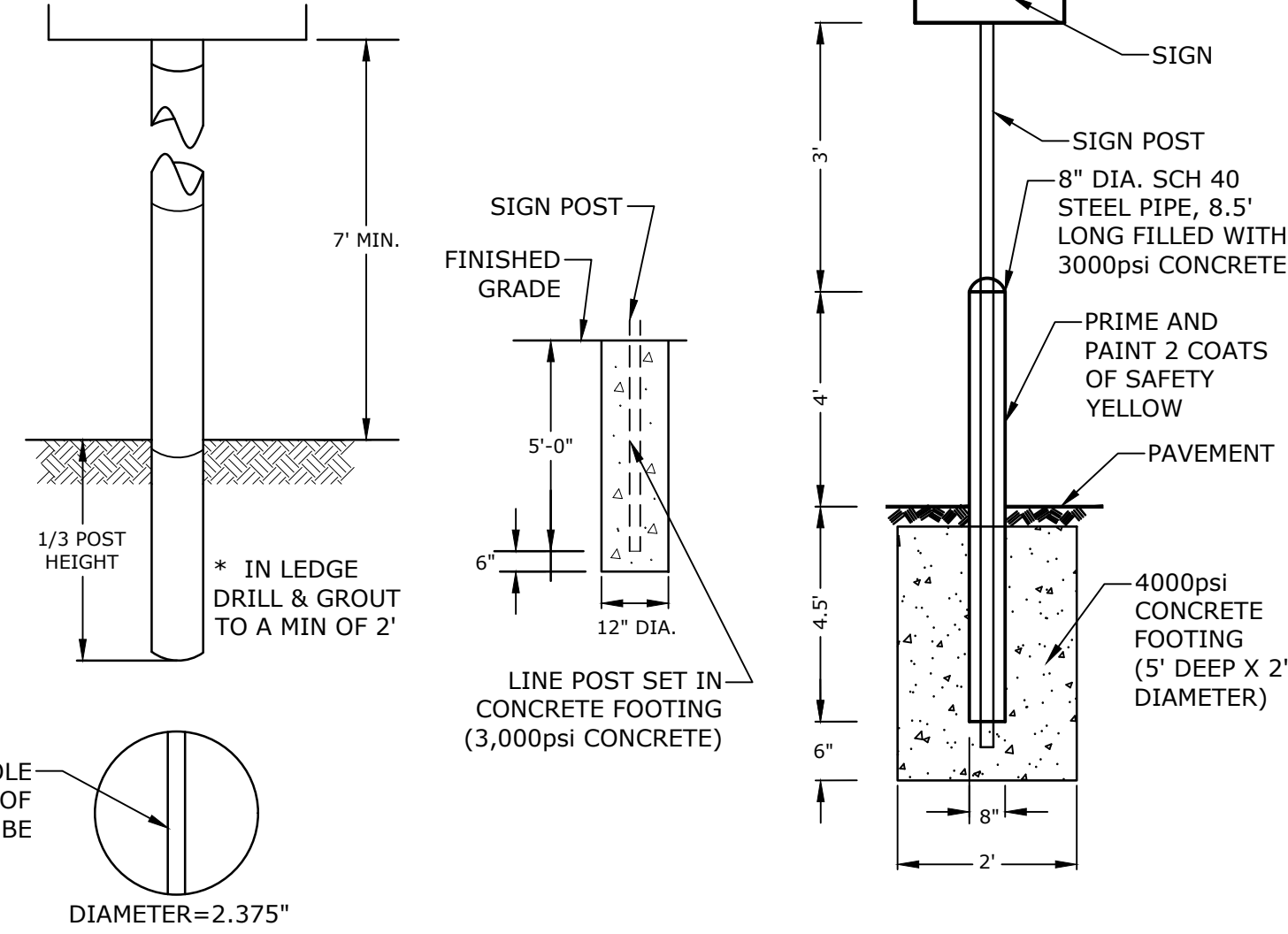
PAVEMENT MARKINGS
NO SCALE

NOTE:
 1. PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS AS SHOWN ON SITE PLAN.
 2. ALL STOP BARS, WORDS, SYMBOLS AND ARROWS SHALL BE CONSTRUCTED USING WHITE THERMO PLASTIC, REFLECTORIZED PAVEMENT MARKING MATERIAL MEETING THE REQUIREMENTS OF ASTM D 4505

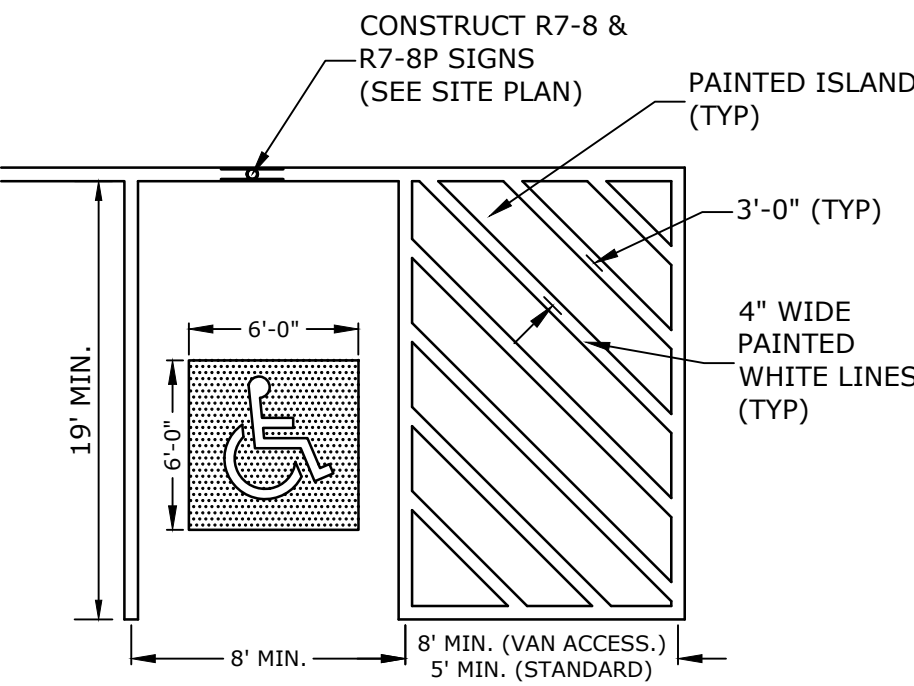


NOTES:
 ALL SIGNS TO BE INSTALLED AS INDICATED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 POST: SCHEDULE 40 GALVANIZED STEEL PIPE (OUTSIDE DIA. = 2.375").
 FINISH: POST TO BE POWDER COATED GLOSS BLACK
 LENGTH: AS REQUIRED
 WEIGHT PER LINEAR FOOT: 2.50 LBS (MIN.)
 HOLES: 3/8" DIAMETER (AS REQUIRED)
 STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-576 (GRADE 1070-1080)

SIGN LEGEND & SIGN POST
NO SCALE

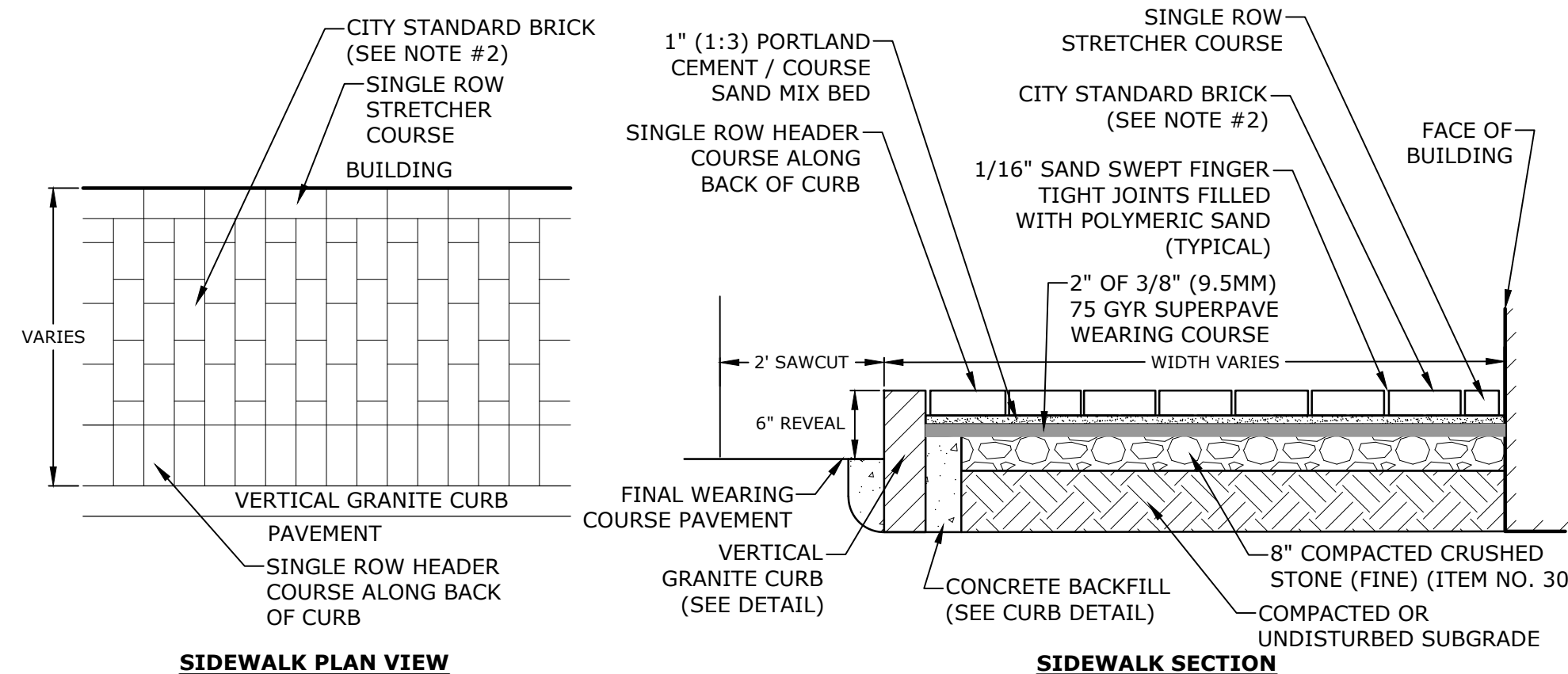


BOLLARD MOUNTED SIGN DETAIL
NO SCALE



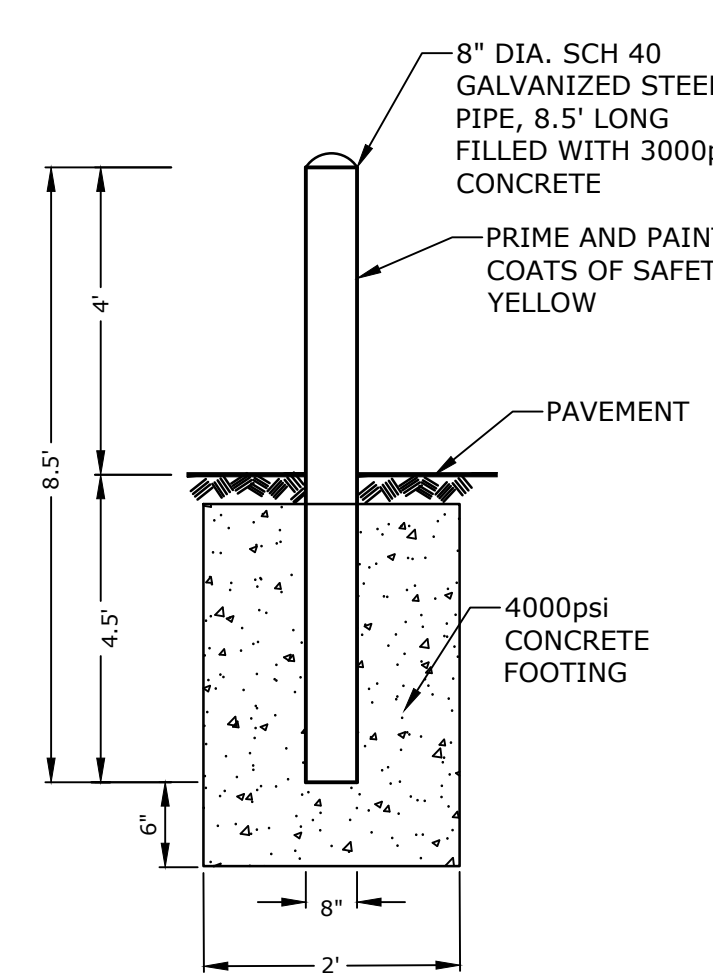
NOTES:
 1. ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248-TYPE F. PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.
 2. SYMBOLS & PARKING STALLS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN W/ DISABILITIES ACT.

ACCESSIBLE PARKING STALL
NO SCALE

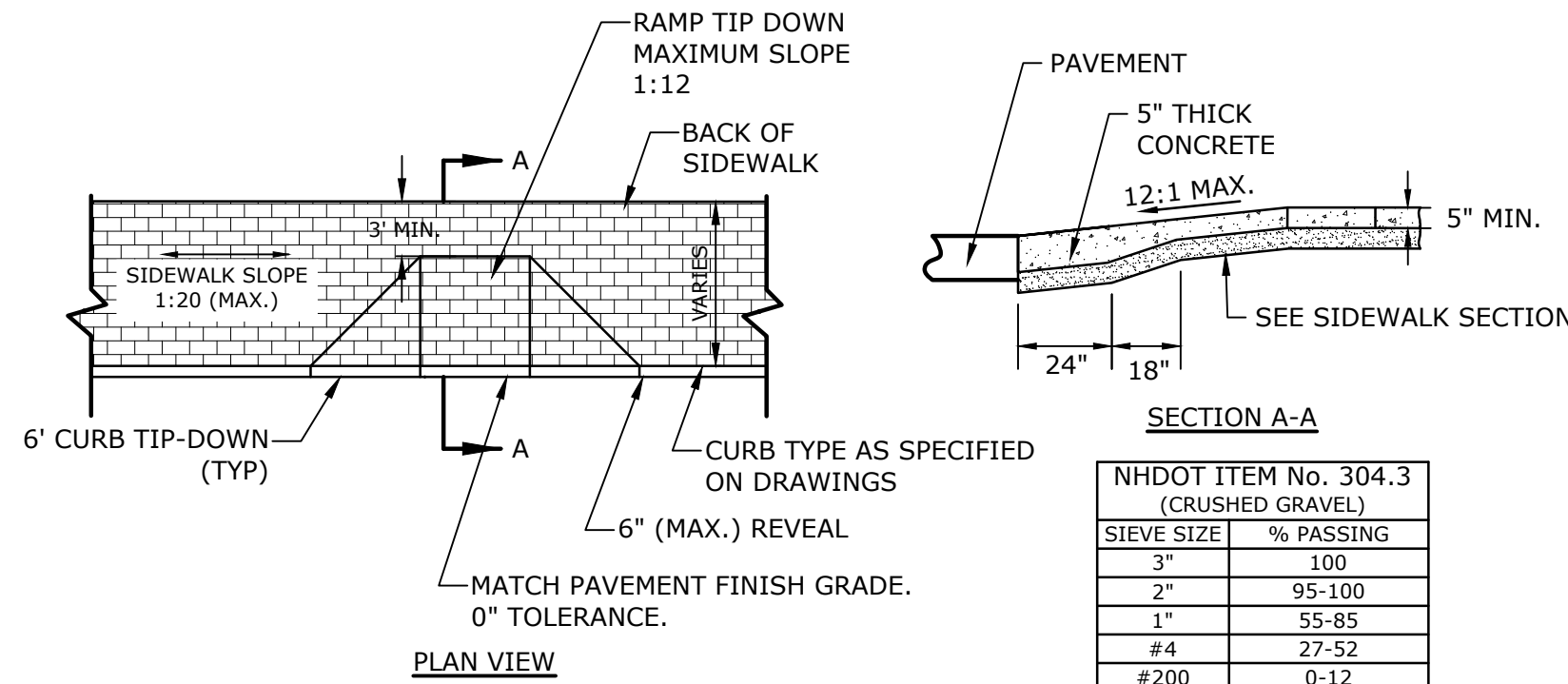


NOTES:
 1. BRICK SIDEWALK SHALL BE INSTALLED AS DETAILED AND PER CITY OF PORTSMOUTH REQUIREMENTS/SPECIFICATIONS AND SHALL INCLUDE A CONTINUOUS APPROVED PAVER EDGE RESTRAINT SYSTEM AT ALL LOCATIONS NOT ADJACENT TO CURB OR BUILDINGS.
 2. CITY STANDARD BRICK SHALL BE TRADITIONAL EDGE, PATHWAY, FULL RANGE 2.25"x4"x8" PAVEMENT, BY PINE HILL BRICK, INC. BRICK MATERIAL SAMPLES SHALL BE PROVIDED TO DPW PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL.
 3. BEDDING MATERIAL SHALL BE A PORTLAND CEMENT / COURSE SAND MIX THAT IS 1 PART PORTLAND CEMENT AND 3 PARTS COURSE SAND. SAND SHALL CONFORM WITH ASTM C-33 AND CEMENT SHALL BE PORTLAND CEMENT TYPE I/TYPE II.

BRICK SIDEWALK
NO SCALE

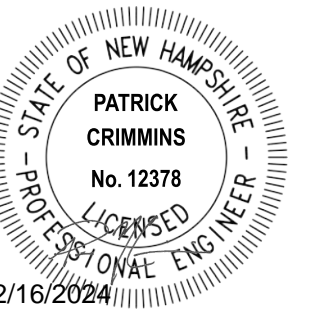
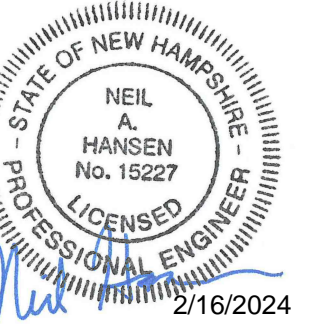


BOLLARD DETAIL
NO SCALE



NOTES:
 1. RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND LOCAL AND STATE REQUIREMENTS.
 2. A 6" COMPACTED CRUSHED GRAVEL BASE (NHDOT ITEM No. 304.3) SHALL BE PROVIDED BENEATH RAMPS.
 3. THE MAXIMUM RUNNING SLOPE OF ANY SIDEWALK CURB RAMP IS 12:1, THE MAXIMUM CROSS SLOPE IS 2%. THE SLOPE OF THE LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION.
 4. TRANSITIONS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. ROADWAY SHOULDER SLOPES ADJOINING SIDEWALK CURB RAMPS SHALL BE A MAXIMUM OF 5% (FULL WIDTH) FOR A DISTANCE OF 2 FT. FROM THE ROADWAY CURBLINE.
 5. THE BOTTOM OF THE SIDEWALK CURB RAMP OR LANDING, EXCLUSIVE OF THE FLARED SIDES, SHALL BE WHOLLY CONTAINED WITHIN THE CROSSWALK MARKINGS.

SIDEWALK TIP DOWN RAMP
NO SCALE



Proposed Mixed Use Development

CPI Management, LLC

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Portsmouth, NH

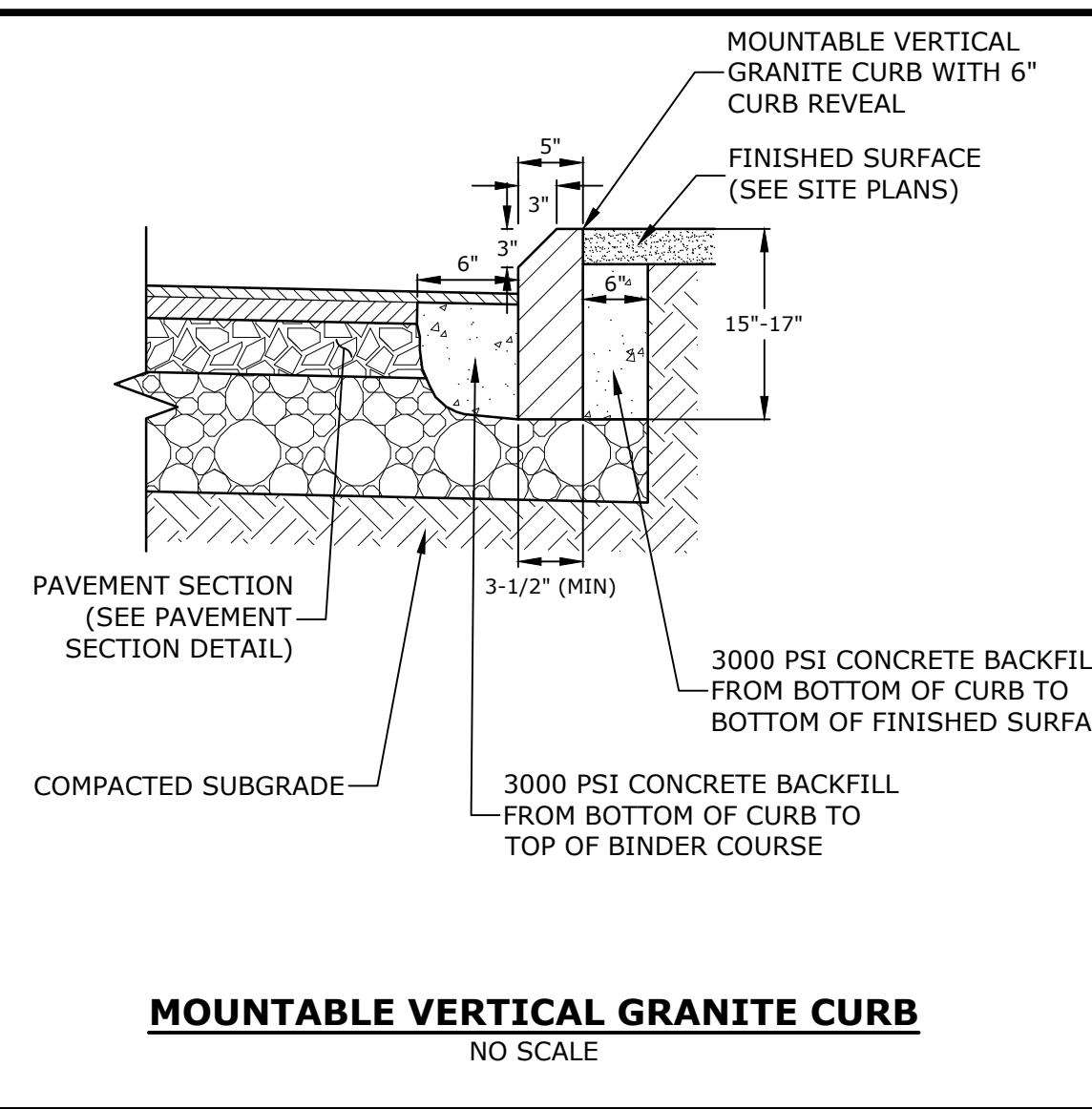
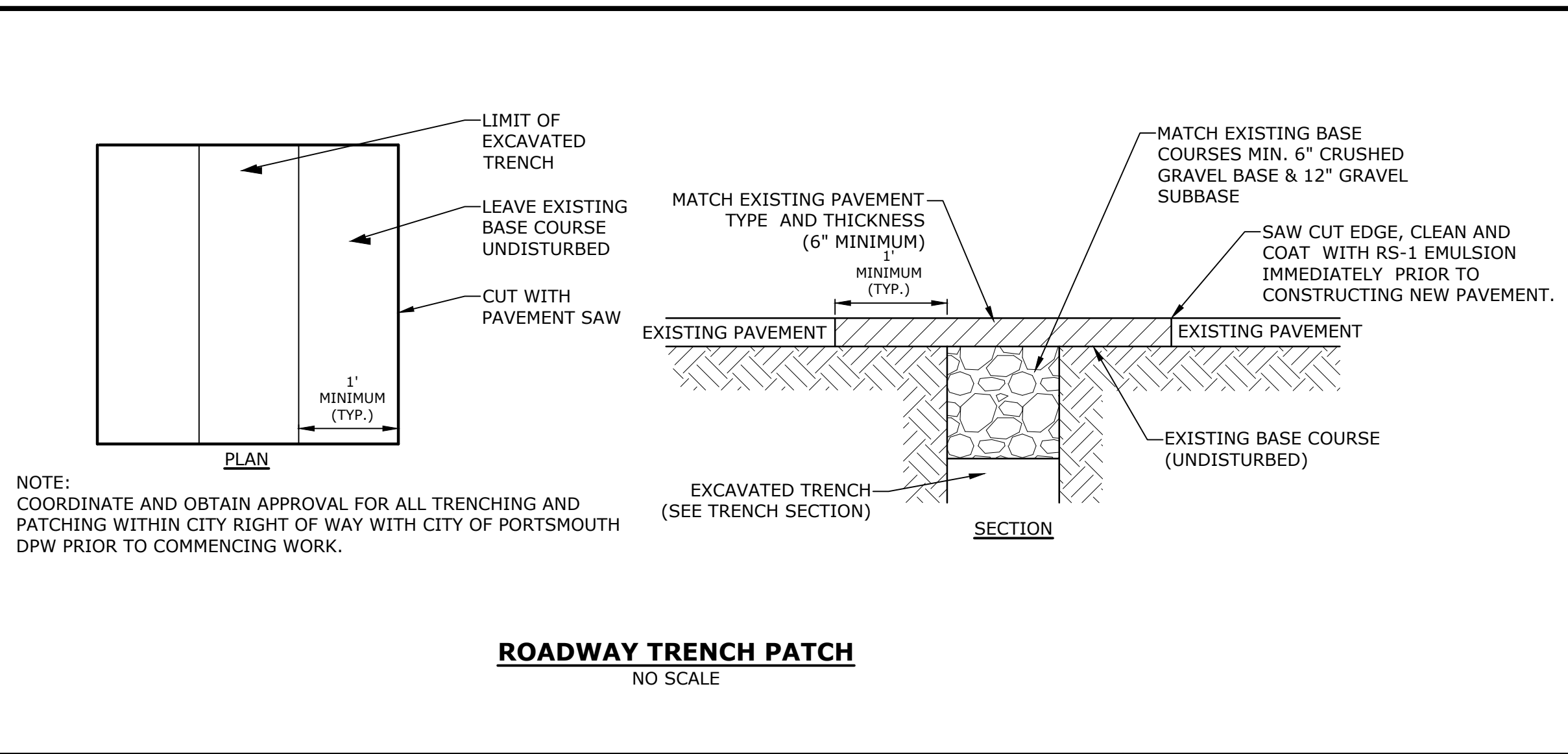
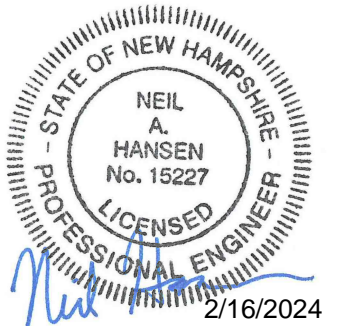
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 APPROVED: PMC

DETAILS SHEET

SCALE: AS SHOWN

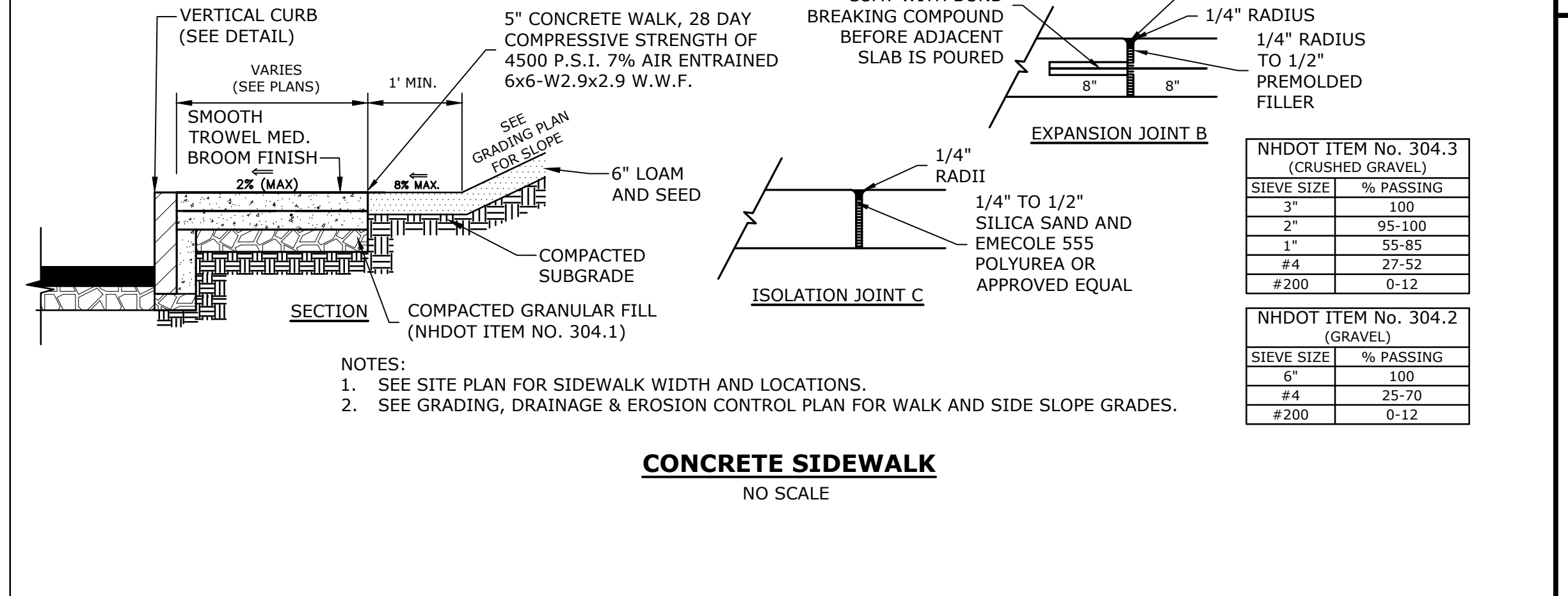
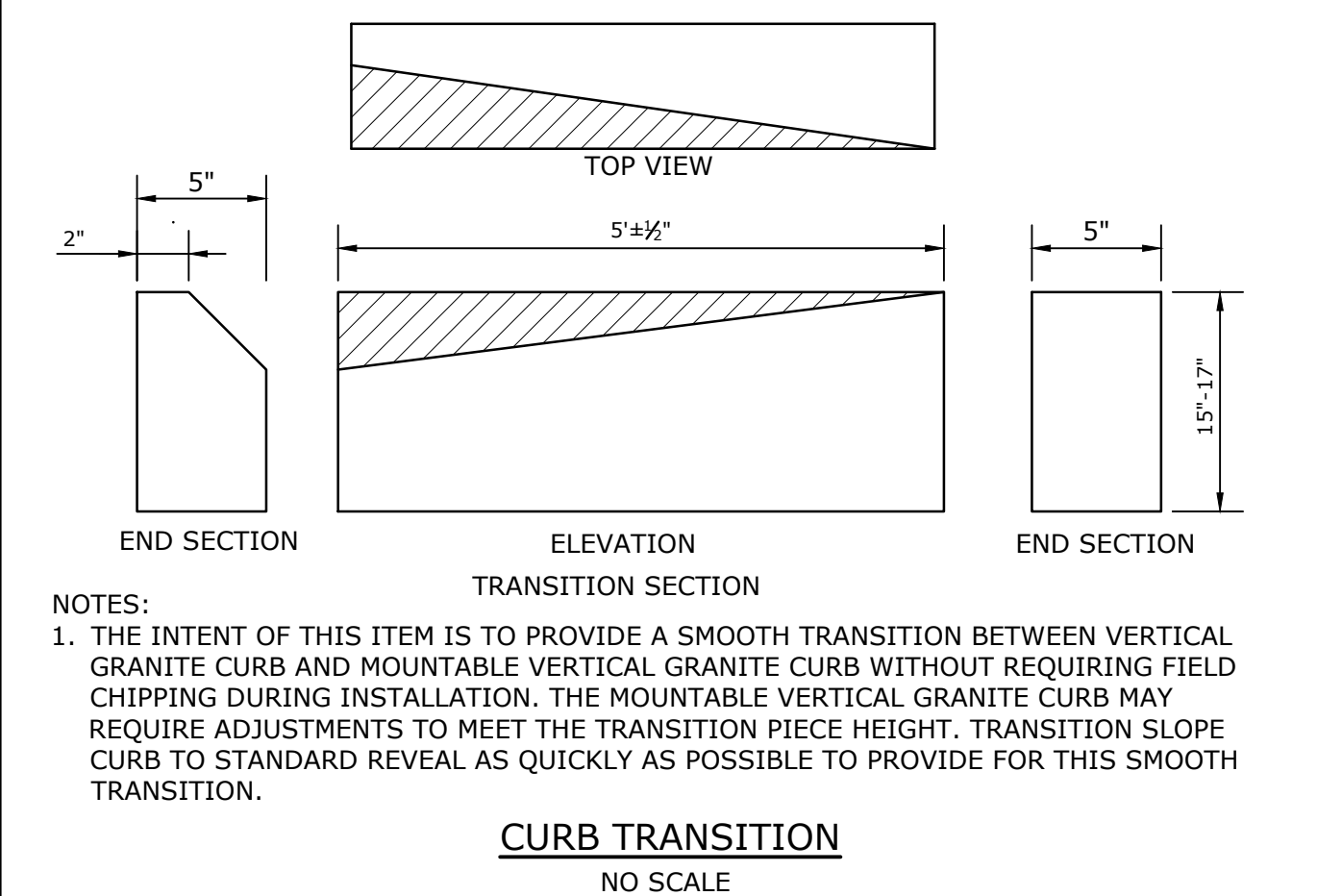
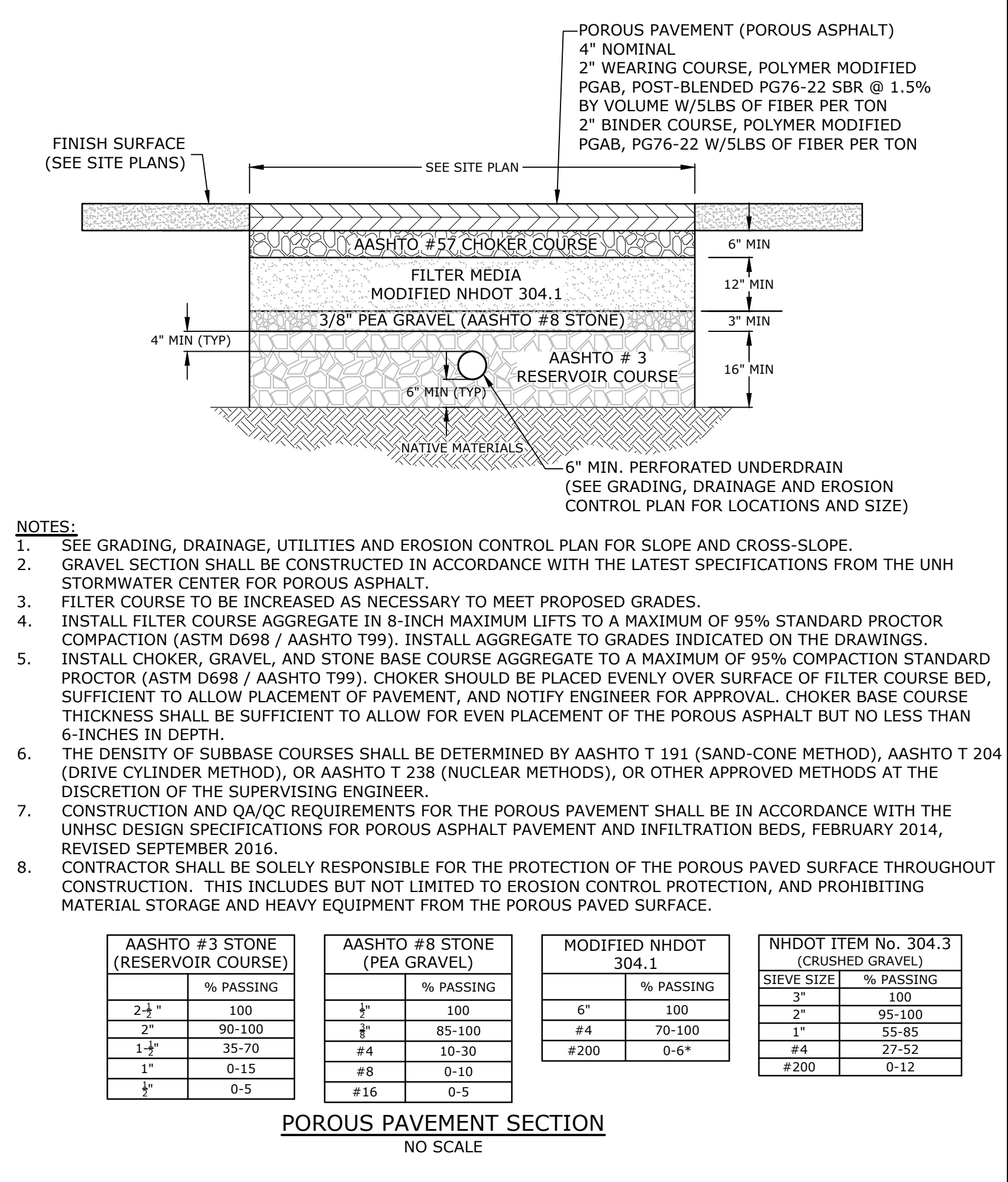
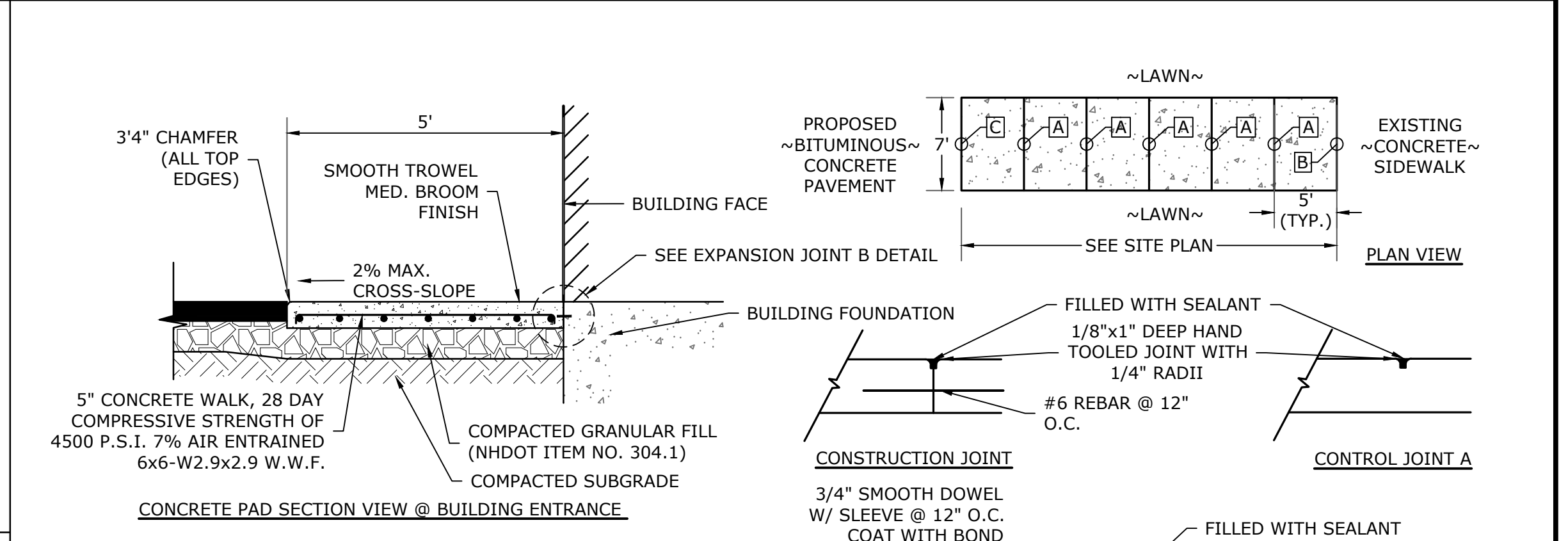
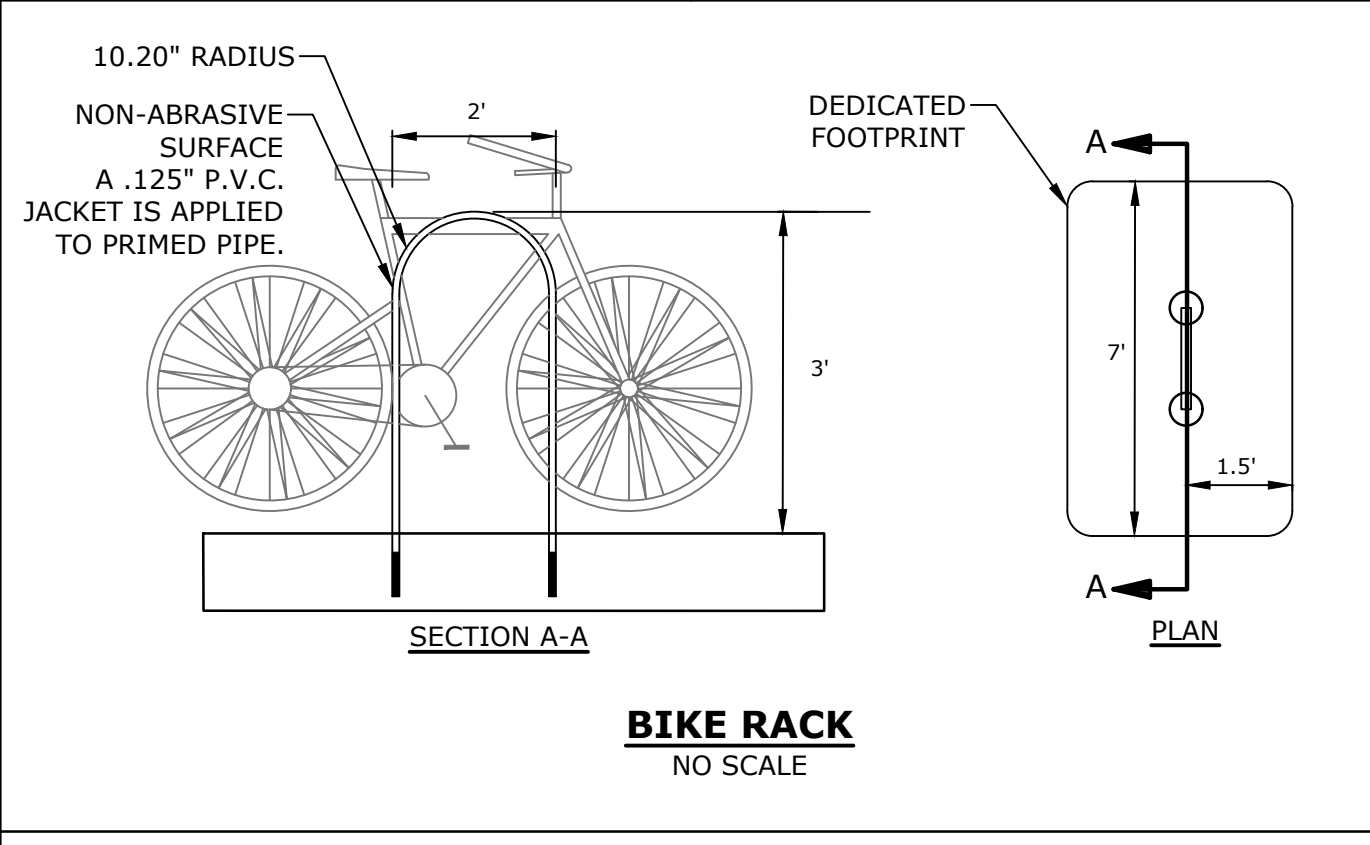
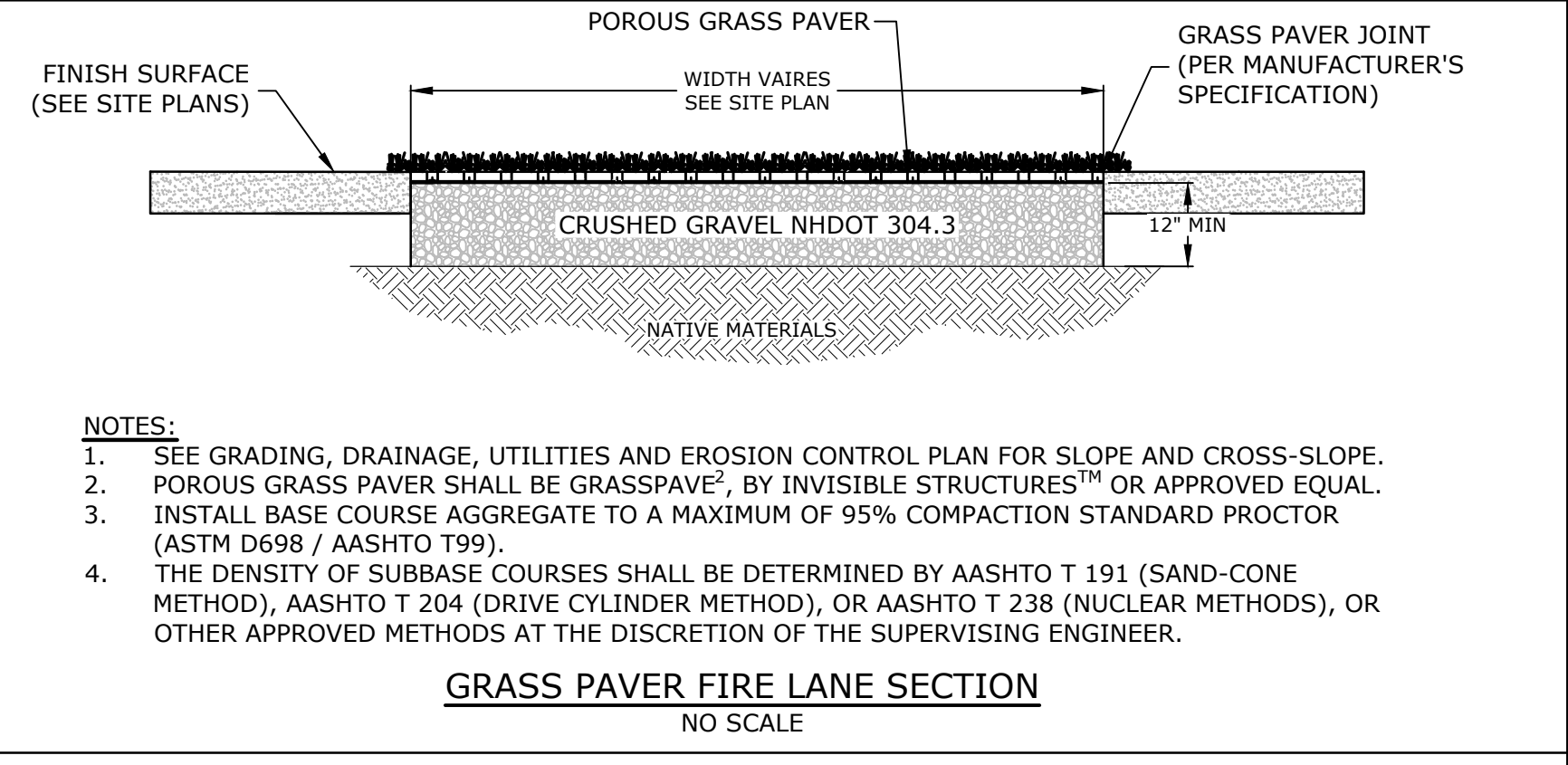
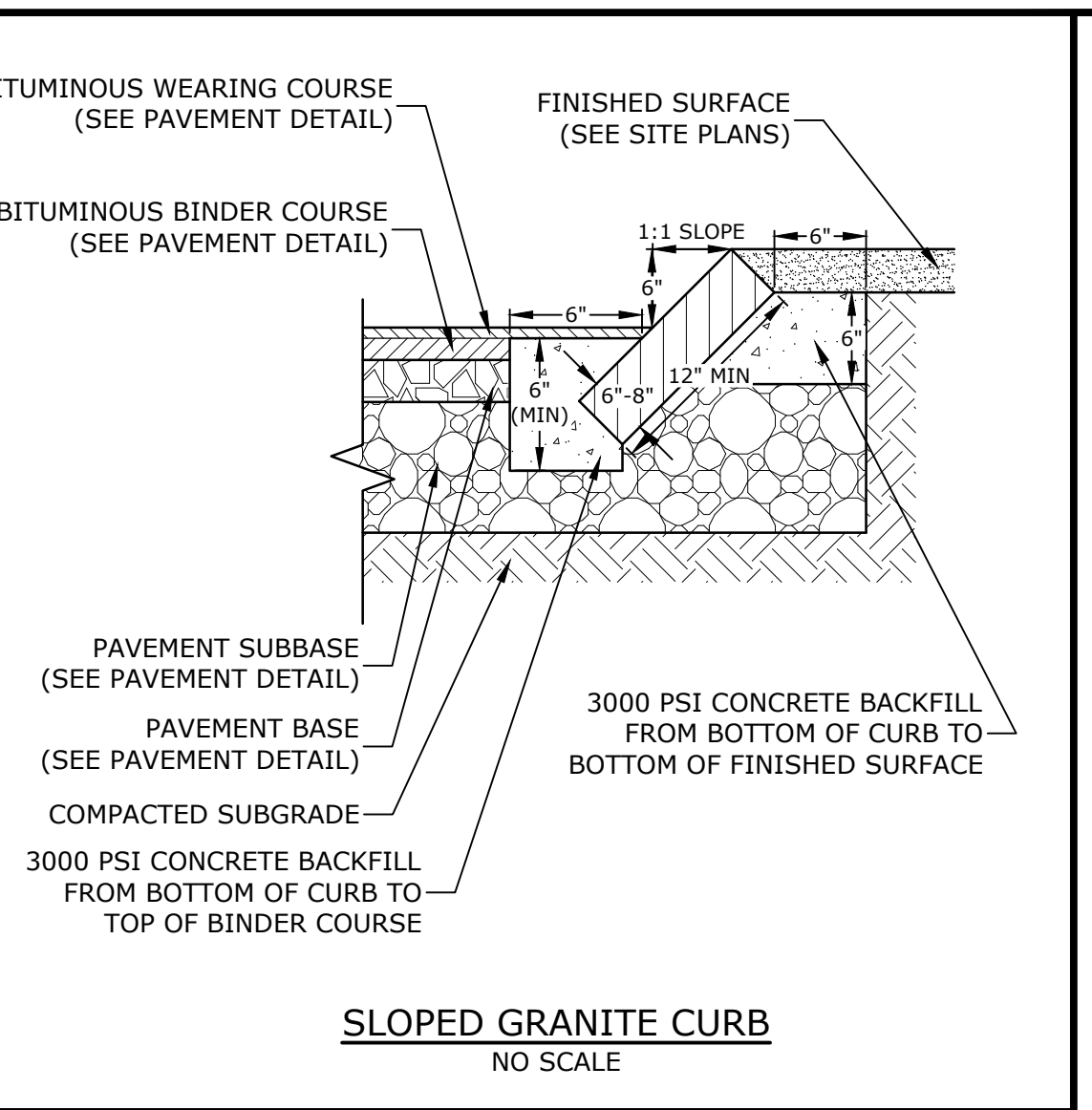
C-502



NOTES:

- SEE SITE PLAN(S) FOR LIMITS OF MOUNTABLE VERTICAL GRANITE CURB (MVGC) AND SLOPED GRANITE CURB (SGC).
- ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
- MINIMUM LENGTH OF STRAIGHT MVGC STONES = 3'
- MAXIMUM LENGTH OF STRAIGHT MVGC STONES = 10'
- MINIMUM LENGTH OF STRAIGHT SGC STONES = 18"
- MAXIMUM LENGTH OF STRAIGHT SGC STONES = 8'
- MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES (SEE TABLE).
- FOR MVGC ALL RADII 20 FEET AND SMALLER SHALL BE CONSTRUCTED USING CURVED SECTIONS.
- JOINTS BETWEEN STONES SHALL HAVE A MAXIMUM SPACING OF 1/2" AND SHALL BE MORTARED.

RADIUS	MAX LENGTH
<2'	USE CURVED CURB
2'-15'	USE RADIAL JOINTS
16'-28'	1'-6"
29'-41'	1'-2"
42'-55'	2'
56'-68'	3'
69'-82'	4'
83'-96'	5'
97'-110'	6'
>110'	7'
	8'



SIEVE SIZE	% PASSING
3"	100
2"	95-100
1"	55-85
#4	27-52
#200	0-12

SIEVE SIZE	% PASSING
6"	100
#4	25-70
#200	0-12

NOTES:

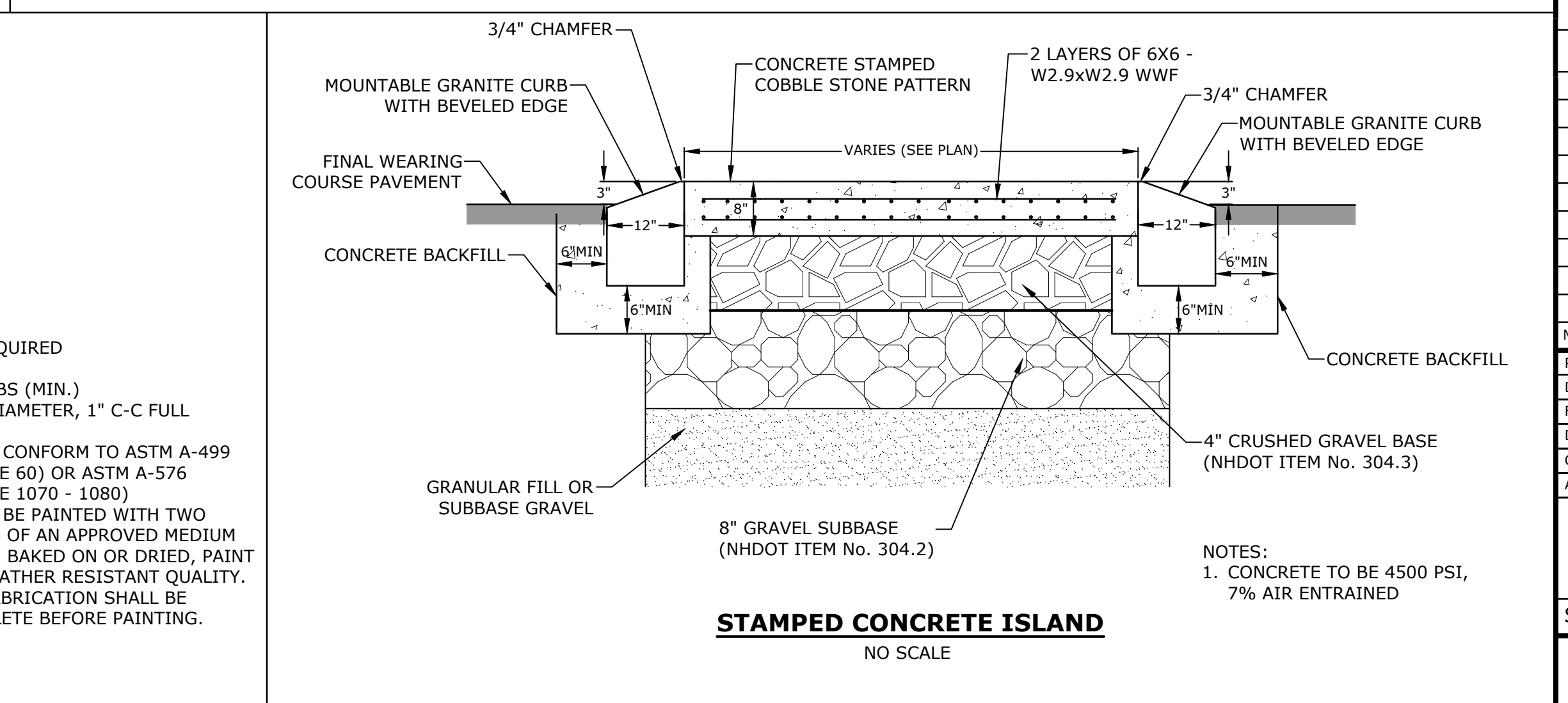
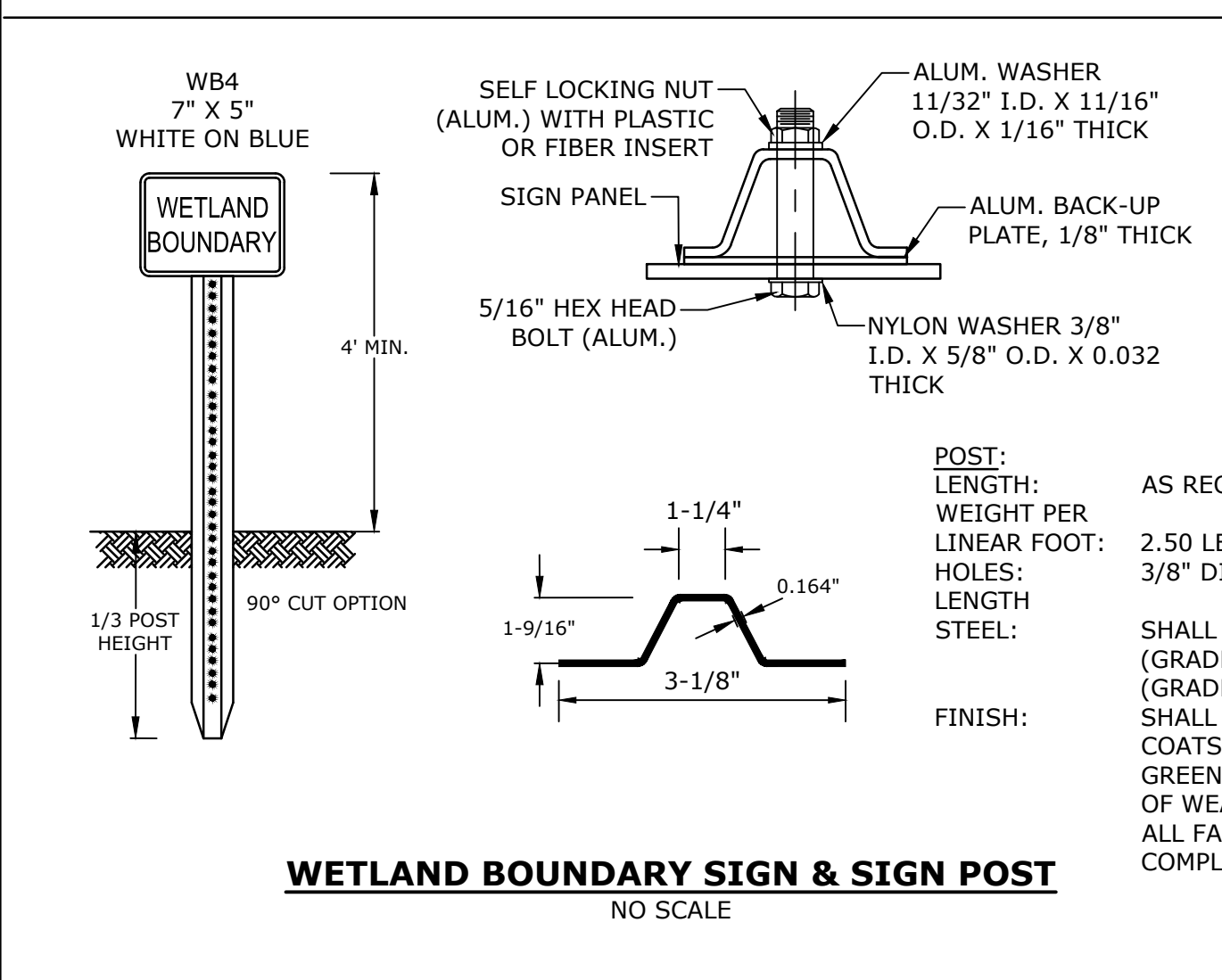
- SEE GRADING, DRAINAGE, UTILITIES AND EROSION CONTROL PLAN FOR SLOPE AND CROSS-SLOPE.
- GRAVEL SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS FROM THE UNH STORMWATER CENTER FOR POROUS ASPHALT.
- FILTER COURSE TO BE INCREASED AS NECESSARY TO MEET PROPOSED GRADES.
- INSTALL FILTER COURSE AGGREGATE IN 8-INCH MAXIMUM LIFTS TO A MAXIMUM OF 95% STANDARD PROCTOR COMPACTION (ASTM D698 / AASHTO T99). INSTALL AGGREGATE TO GRADES INDICATED ON THE DRAWINGS.
- INSTALL CHOKER, GRAVEL, AND STONE BASE COURSE AGGREGATE TO A MAXIMUM OF 95% COMPACTION STANDARD PROCTOR (ASTM D698 / AASHTO T99). CHOKER SHOULD BE PLACED EVENLY OVER SURFACE OF FILTER COURSE BED, SUFFICIENT TO ALLOW PLACEMENT OF PAVEMENT, AND NOTIFY ENGINEER FOR APPROVAL. CHOKER BASE COURSE THICKNESS SHALL BE SUFFICIENT TO ALLOW FOR EVEN PLACEMENT OF THE POROUS ASPHALT BUT NO LESS THAN 6-INCHES IN DEPTH.
- THE DENSITY OF SUBBASE COURSES SHALL BE DETERMINED BY AASHTO T 191 (SAND-CONE METHOD), AASHTO T 204 (DRIVE CYLINDER METHOD), OR AASHTO T 238 (NUCLEAR METHODS), OR OTHER APPROVED METHODS AT THE DISCRETION OF THE SUPERVISING ENGINEER.
- CONSTRUCTION AND QA/QC REQUIREMENTS FOR THE POROUS PAVEMENT SHALL BE IN ACCORDANCE WITH THE UNHSC DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS, FEBRUARY 2014, REVISED SEPTEMBER 2016.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF THE POROUS PAVED SURFACE THROUGHOUT CONSTRUCTION. THIS INCLUDES BUT NOT LIMITED TO EROSION CONTROL PROTECTION, AND PROHIBITING MATERIAL STORAGE AND HEAVY EQUIPMENT FROM THE POROUS PAVED SURFACE.

SIEVE SIZE	% PASSING
2 1/2"	100
2"	90-100
1 1/2"	35-70
1"	0-15
3/4"	0-5

SIEVE SIZE	% PASSING
3/4"	100
3/8"	85-100
#4	10-30
#8	0-10
#16	0-5

SIEVE SIZE	% PASSING
6"	100
#4	70-100
#200	0-6*

SIEVE SIZE	% PASSING
3"	100
2"	95-100
1"	55-85
#4	27-52
#200	0-12



Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
Portsmouth, NH

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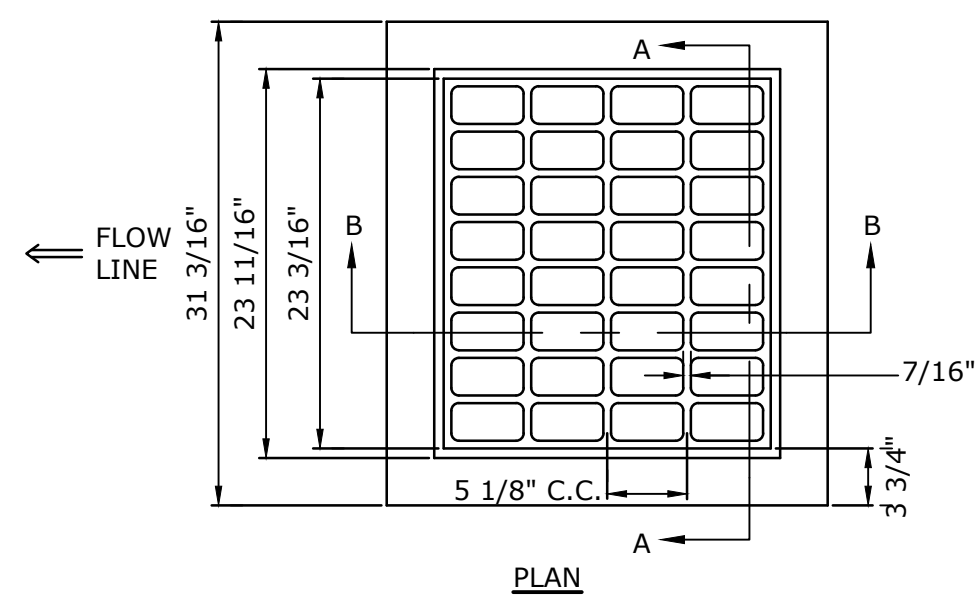
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CHECKED:	NAH
APPROVED:	PMC

DETAILS SHEET

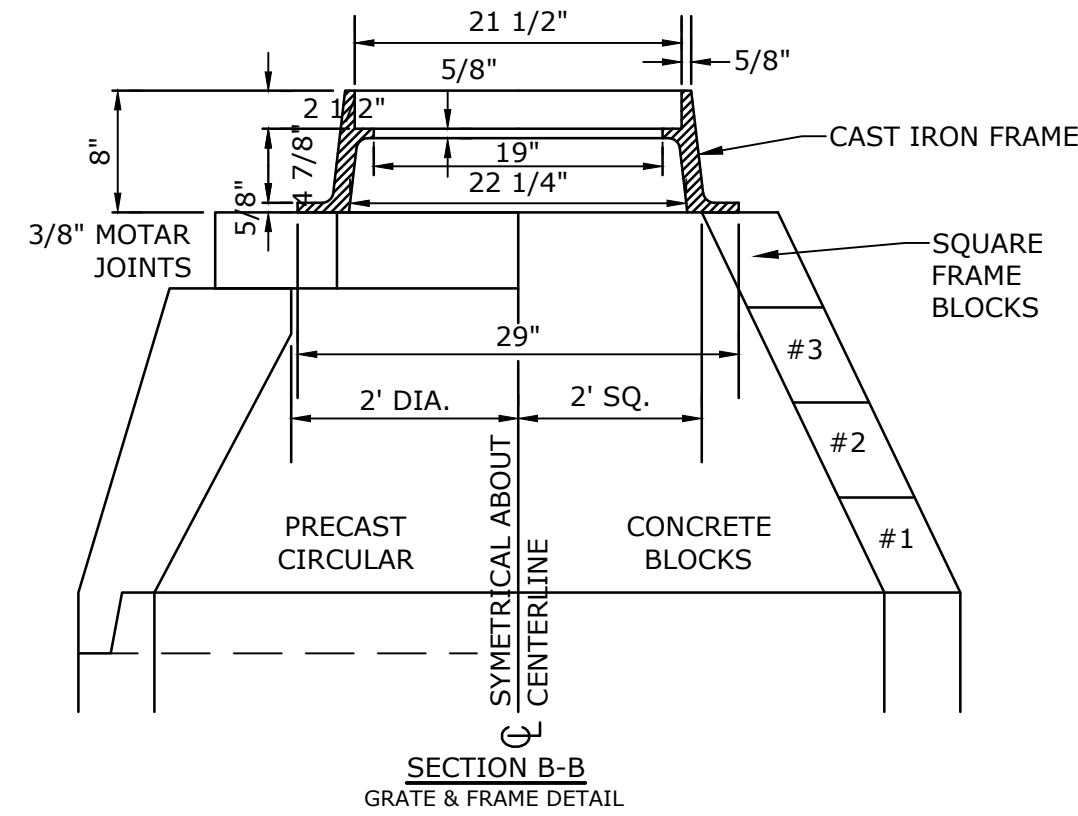
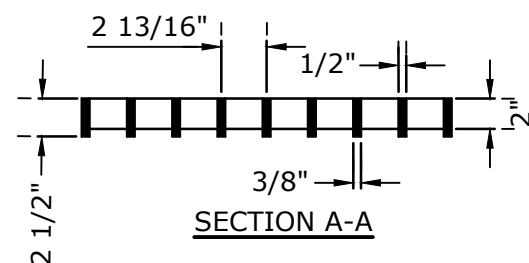
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C-503

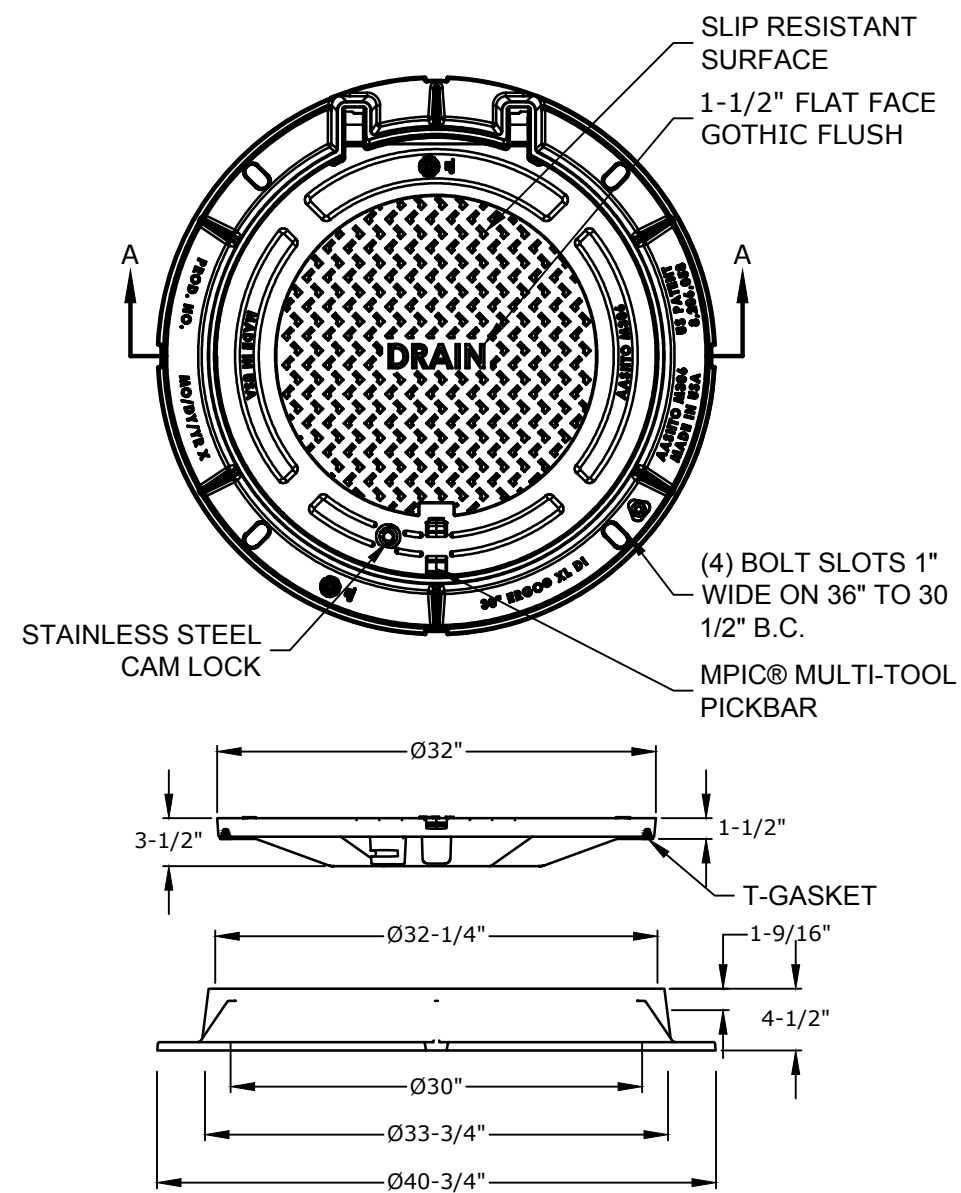
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- NOTE:
1. GRATE TO BE CAST IRON (NHDOT TYPE B)
2. FRAME AND GRATE TO BE MANUFACTURED IN THE USA

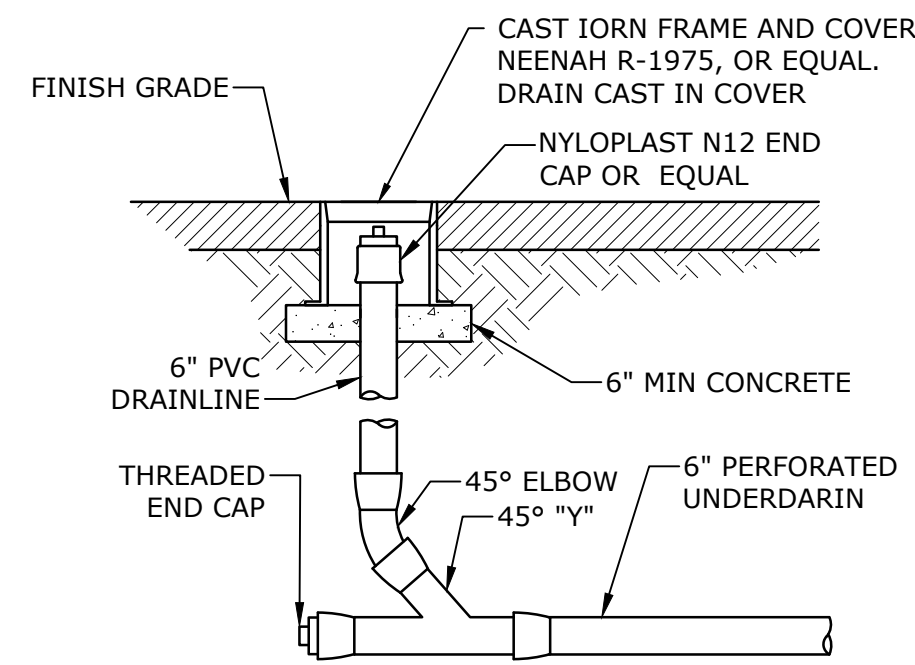


CATCH BASIN FRAME & GRATE
NO SCALE

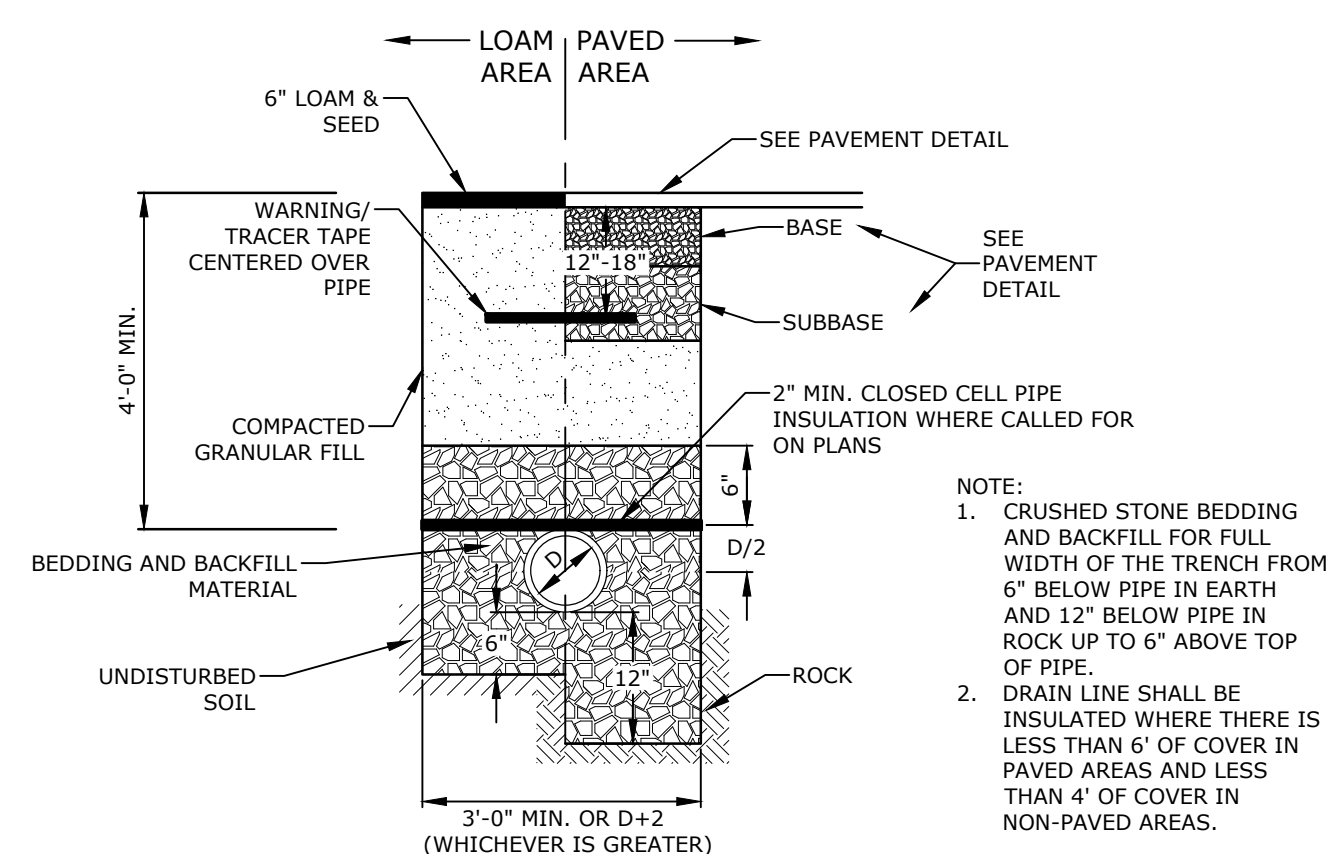


- NOTES:
1. MANHOLE FRAME AND COVER SHALL BE 32" HINGED ERGO XL BY EJ CO.
2. ALL DIMENSIONS ARE NOMINAL.
3. FRAMES USING NARROWER DIMENSIONS FOR THICKNESS ARE ALLOWED PROVIDED:
A. THE FRAMES MEET OR EXCEED THE SPECIFIED LOAD RATING.
B. THE INTERIOR PERIMETER (SEAT AREA) DIMENSIONS OF THE FRAMES REMAIN THE SAME TO ALLOW CONTINUED USE OF EXISTING GRATES/COVERS AS THE EXISTING FRAMES ALLOW, WITHOUT SHIMS OR OTHER MODIFICATIONS OR ACCOMMODATIONS.
C. ALL OTHER PERTINENT REQUIREMENTS OF THE SPECIFICATIONS ARE MET.
4. LABEL TYPE OF MANHOLE WITH 3" HIGH LETTERS IN THE CENTER OF THE COVER.

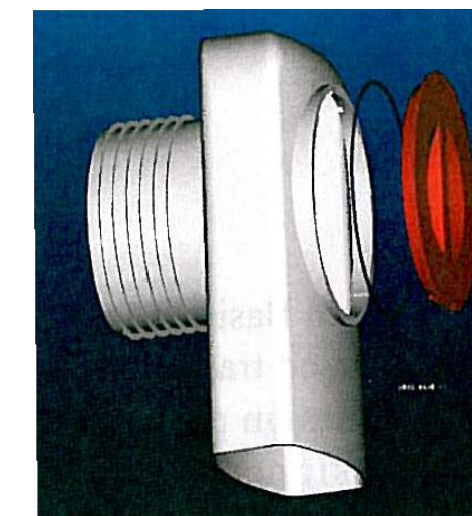
DRAIN MANHOLE FRAME & COVER
NO SCALE



DRAIN CLEAN-OUT
NO SCALE



STORM DRAIN TRENCH
NO SCALE

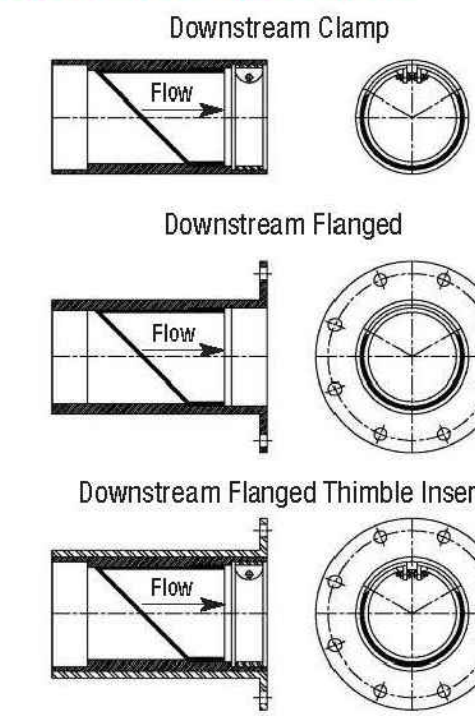


- NOTES:
1. ALL CATCH BASIN OUTLETS TO HAVE "ELIMINATOR" OIL AND FLOATING DEBRIS TRAP MANUFACTURED BY KLEANSTREAM (NO EQUAL)
2. INSTALL DEBRIS TRAP TIGHT TO INSIDE OF STRUCTURE.
3. 1/4" HOLE SHALL BE DRILLED IN TOP OF DEBRIS TRAP

"ELIMINATOR" OIL FLOATING DEBRIS TRAP
NO SCALE

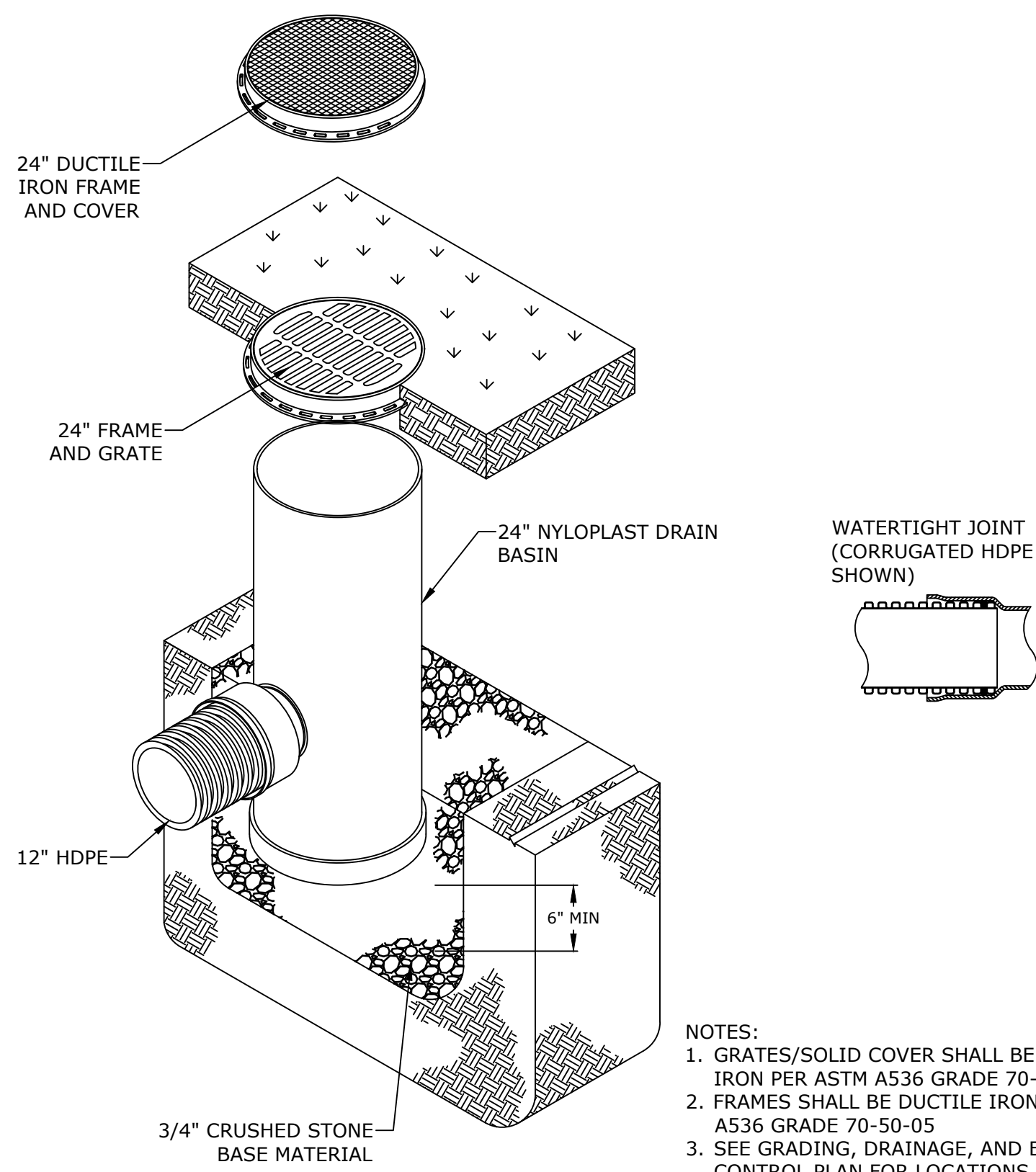
NOMINAL PIPE SIZE I.D.*		OVERALL LENGTH**		NUMBER OF CLAMPS	CUFF DEPTH		BACK PRESSURE RATING	
Inches	Millimeters	Inches	Millimeters		Inches	Millimeters	Feet	Meters
18	450	31	787	1	4	102	20	6

Mounting Styles and Configurations



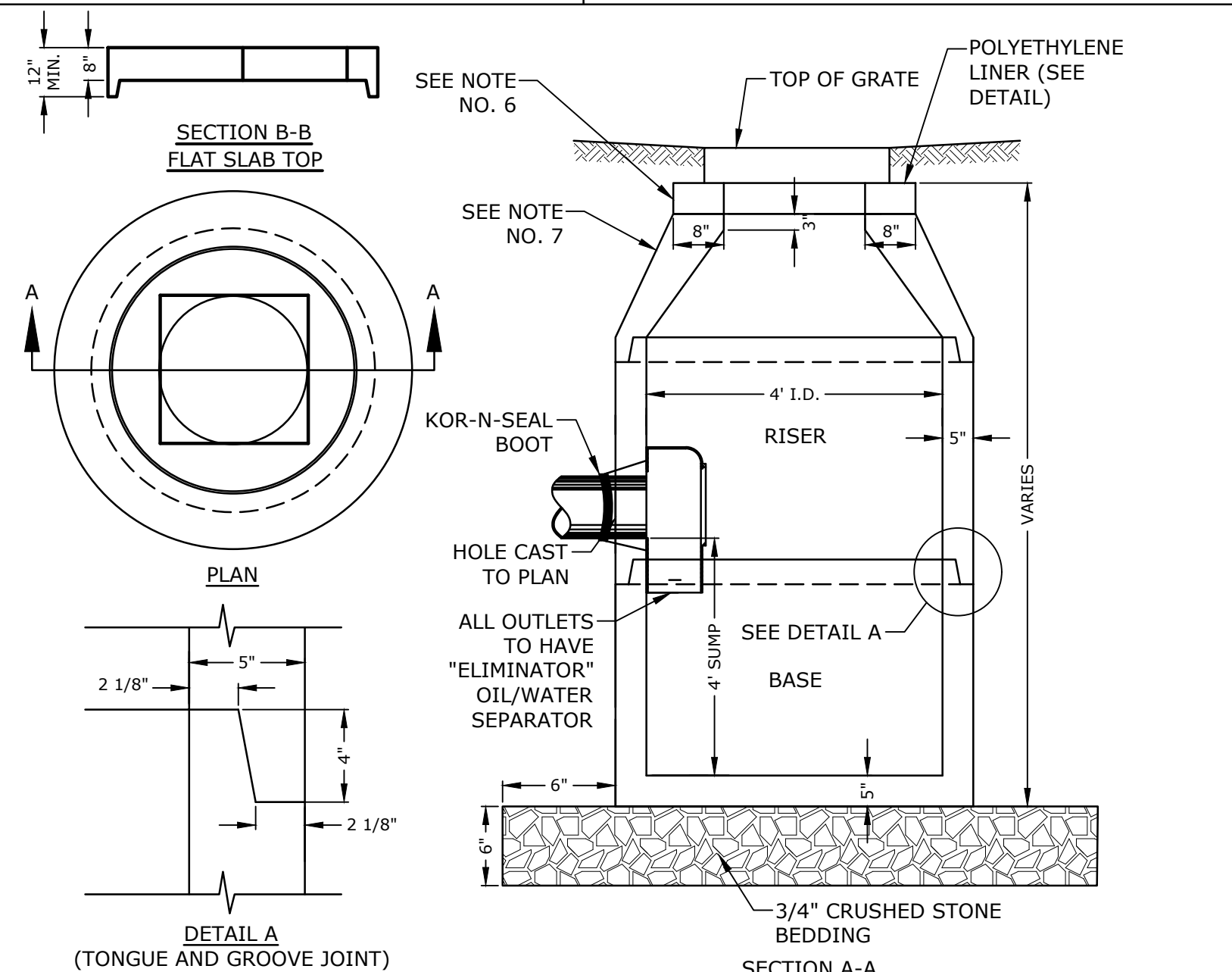
Flange shape and bolt pattern can be customized. Flangeless thimble inserts are available.

TYPICAL BACK FLOW PREVENTER
NO SCALE



- NOTES:
1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. SEE GRADING, DRAINAGE, AND EROSION CONTROL PLAN FOR LOCATIONS.

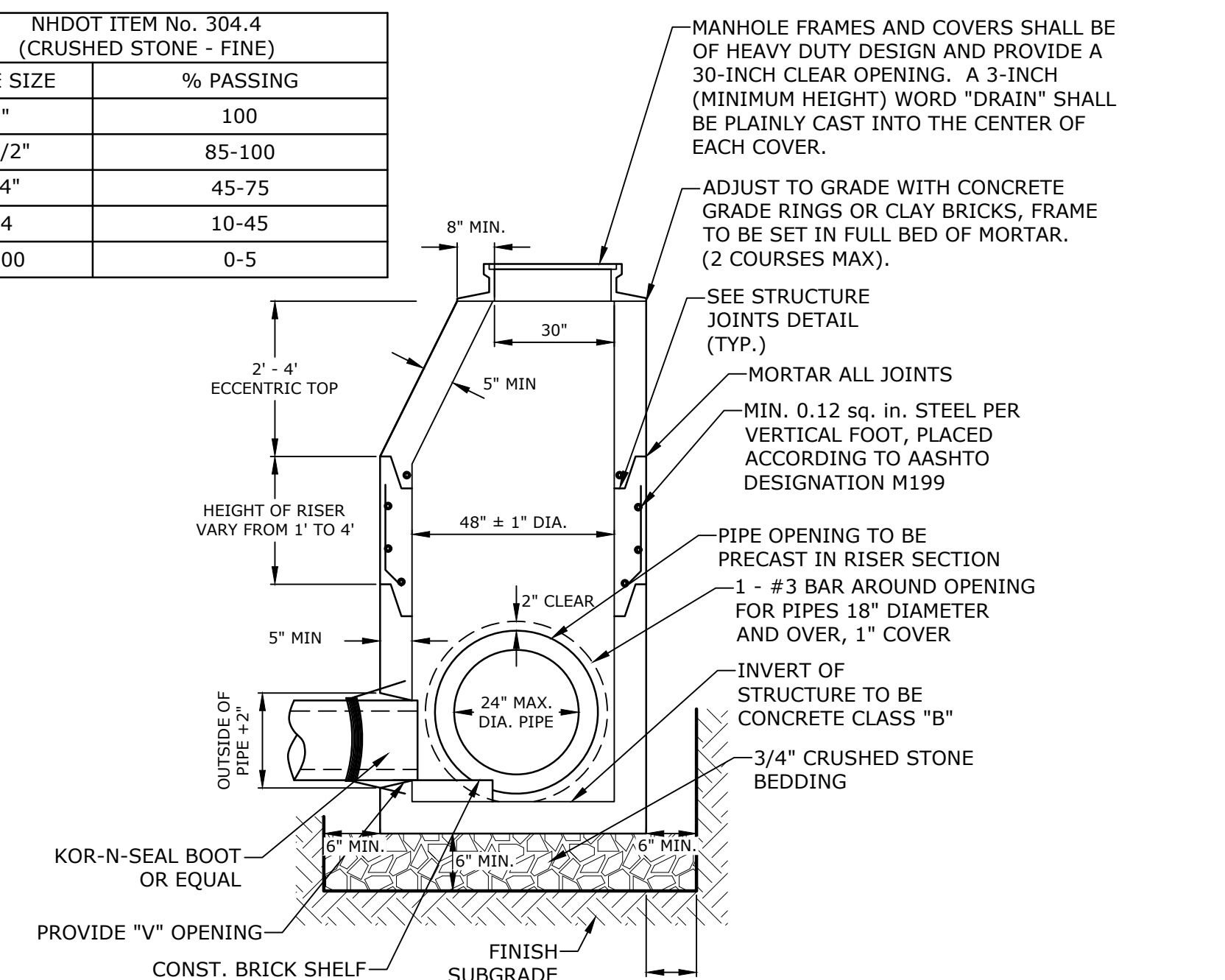
YARD DRAIN
NO SCALE



- NOTES:
1. ALL SECTIONS SHALL BE CONCRETE CLASS AA(4000 PSI).
2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FT. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
3. THE TONGUE AND GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT.
4. RISERS OF 1', 2', 3' & 4' CAN BE USED TO REACH DESIRED DEPTH.
5. THE STRUCTURES SHALL BE DESIGNED FOR H2O LOADING.
6. FITTING FRAME TO GRADE MAY BE DONE WITH PREFABRICATED ADJUSTMENT RINGS OR CLAY BRICKS (2 COURSES MAX.).
7. CONE SECTIONS MAY BE EITHER CONCENTRIC OR ECCENTRIC, OR FLAT SLAB TOPS MAY BE USED WHERE PIPE WOULD OTHERWISE ENTER INTO THE CONE SECTION OF THE STRUCTURE AND WHERE PERMITTED.
8. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
9. OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
10. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
11. THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.
12. "ELIMINATOR" OIL/WATER SEPARATOR SHALL BE INSTALLED TIGHT TO INSIDE OF CATCHBASIN.
13. THE INSIDE OF THE CONCRETE STRUCTURE SHALL BE TREATED WITH A SILOXANE COATING AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SILOXANE COATING SHALL BE SIKAGARD-705L OR APPROVED EQUAL.

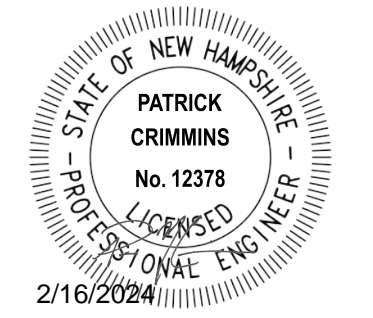
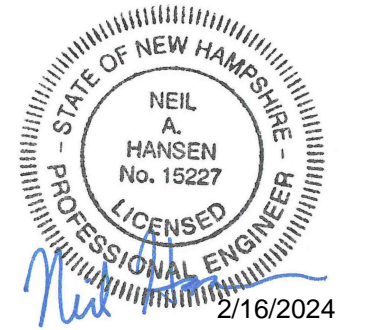
4' DIAMETER CATCHBASIN
NO SCALE

NHDOT ITEM No. 304.4 (CRUSHED STONE - FINE)	
SIEVE SIZE	% PASSING
2"	100
1-1/2"	85-100
3/4"	45-75
#4	10-45
#200	0-5



- NOTES:
1. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE.
2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
3. THE TONGUE AND THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT.
4. THE STRUCTURES SHALL BE DESIGNED FOR H2O LOADING.
5. CONSTRUCT CRUSHED STONE BEDDING AND BACKFILL UNDER (6" MINIMUM THICKNESS)
6. THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.
7. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
8. OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
9. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
10. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.
11. THE INSIDE OF THE CONCRETE STRUCTURE SHALL BE TREATED WITH A SILOXANE COATING AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SILOXANE COATING SHALL BE SIKAGARD-705L OR APPROVED EQUAL.

4' DIAMETER DRAIN MANHOLE
NO SCALE



Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
Portsmouth, NH

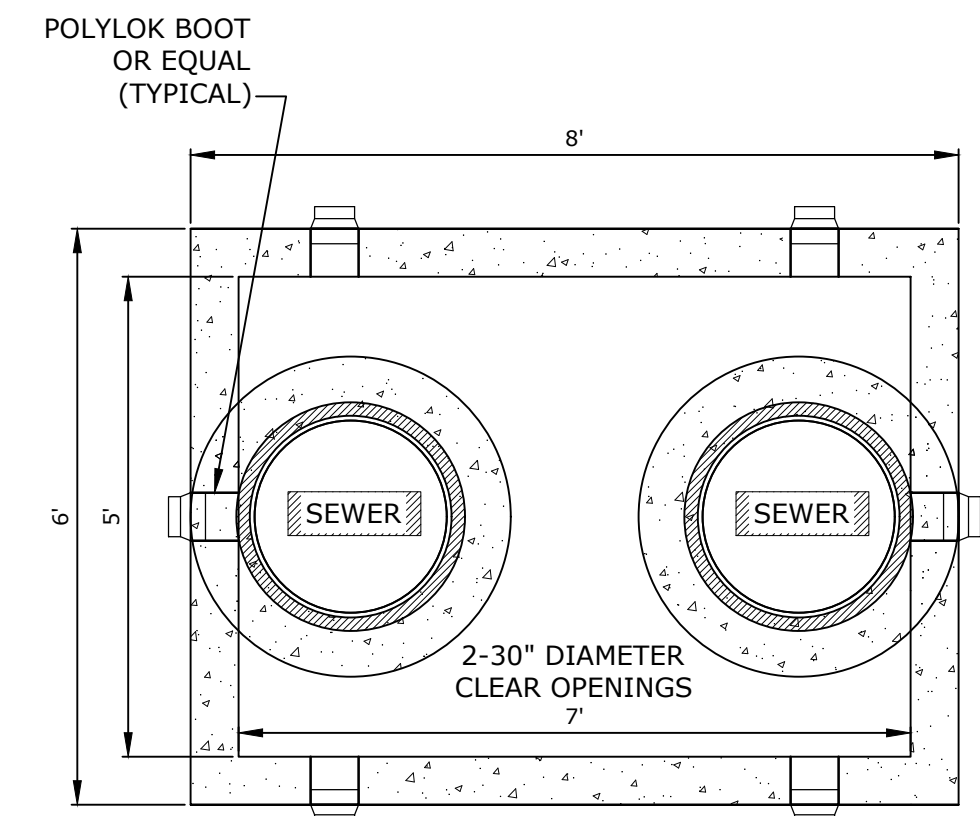
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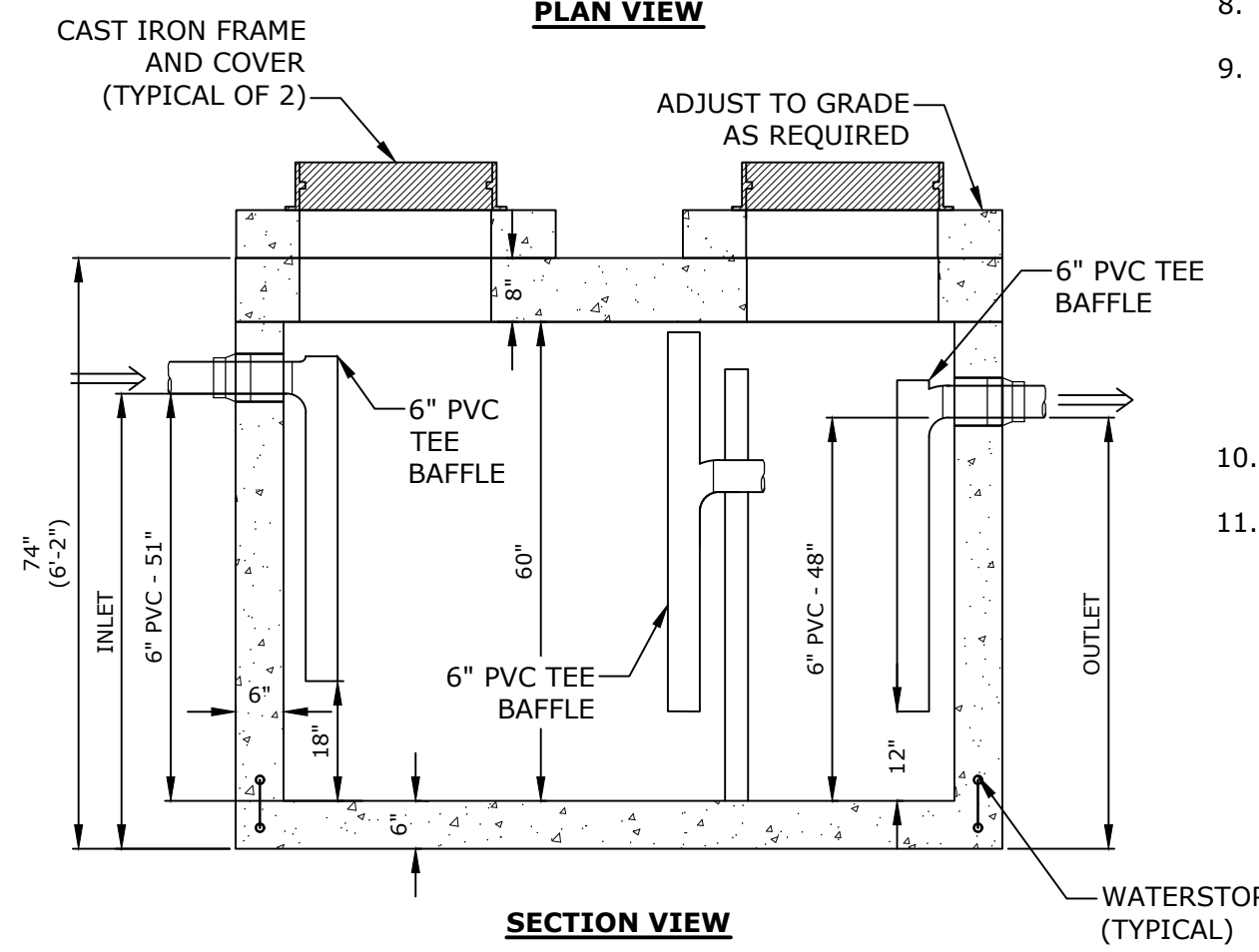
DETAILS SHEET

SCALE: AS SHOWN

C-504



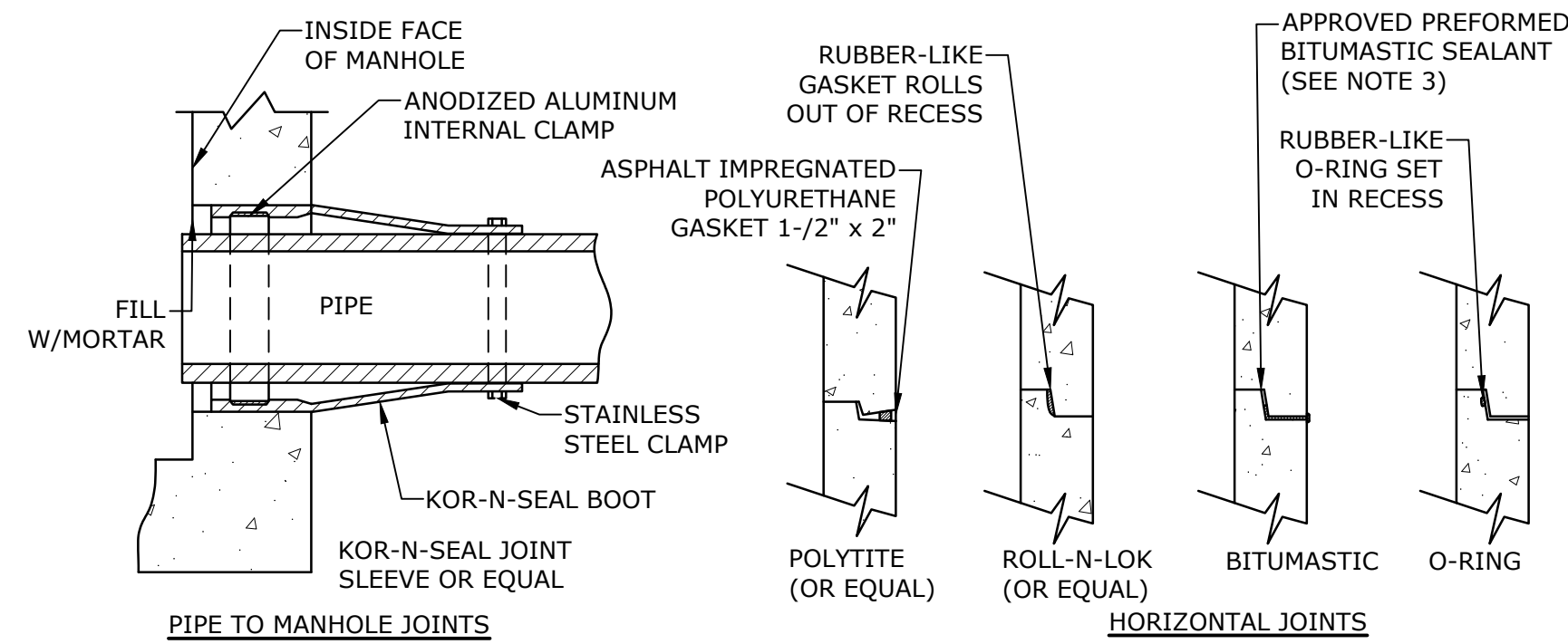
PLAN VIEW



SECTION VIEW

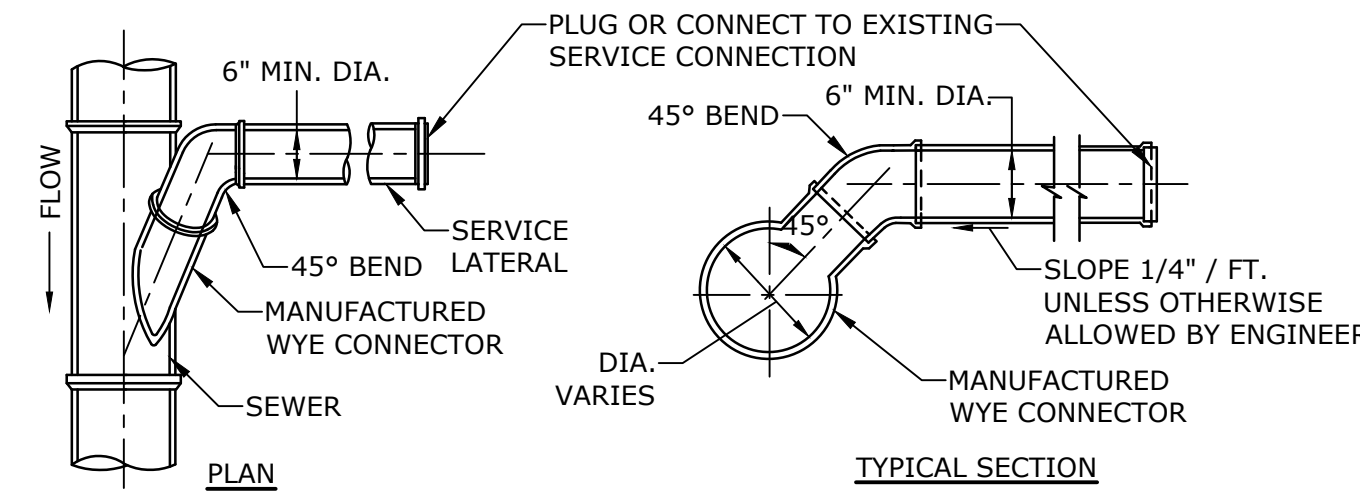
1,000 GALLON GREASE TRAP
NO SCALE

- NOTES:**
1. STEEL REINFORCEMENT SHALL CONFORM TO LATEST ASTM SPECIFICATIONS: ASTM-A615 GRADE 60 REBAR.
 2. CONCRETE SHALL BE $F_c=5,000$ PSI @ 28 DAYS MINIMUM.
 3. FLEXIBLE SLEEVES SHALL BE PROVIDED ON ALL PIPE CONNECTIONS.
 4. JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.
 5. INLET SHALL PENETRATE AT LEAST 9" BELOW THE LIQUID LEVEL, BUT NOT DEEPER THAN THE OUTLET BAFFLE.
 6. OUTLET SHALL EXTEND BELOW THE SURFACE OF THE LIQUID EQUAL TO 40% OF THE LIQUID DEPTH (19").
 7. DESIGN LOADING SHALL BE: AASHTO-HS20-44, ASTM C-890-06.
 8. DESIGN SPECIFIED AS: ASTM C-1227-08, ASTM C-913-08.
 9. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS WITHIN CITY RIGHT OF WAY SHALL BE CITY STANDARD HINGE COVERS MANUFACTURED BY E.J. FRAMES AND COVERS WILL BE PURCHASED FROM THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS. ALL OTHER MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. A 3-INCH (MINIMUM HEIGHT) WORD "SEWER" SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER.
 10. GREASE TRAP SHALL BE PHOENIX PRECAST CONCRETE P/N: C-6420 OR EQUAL.
 11. TANK SHALL BE PUMPED AS NEEDED.

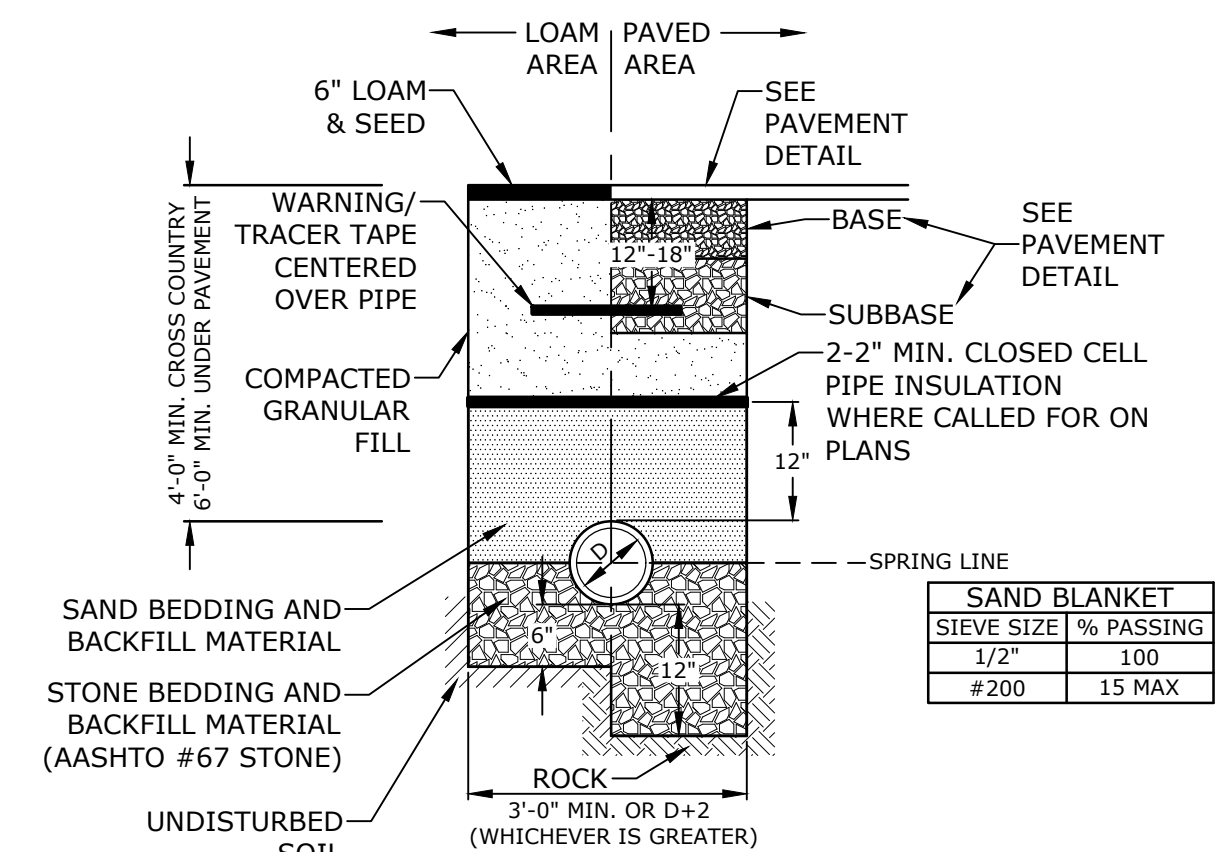


MANHOLE JOINTS
NO SCALE

- NOTES:**
1. HORIZONTAL JOINTS BETWEEN THE SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE PER CITY OF PORTSMOUTH DPW STANDARD AND SHALL BE SEALED FOR WATERTIGHTNESS USING A DOUBLE ROW ELASTOMERIC OR MASTIC-LIKE GASKET.
 2. PIPE TO MANHOLE JOINTS SHALL BE PER CITY OF PORTSMOUTH STANDARD.
 3. FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY.
 4. ALL GASKETS, SEALANTS, MORTAR, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

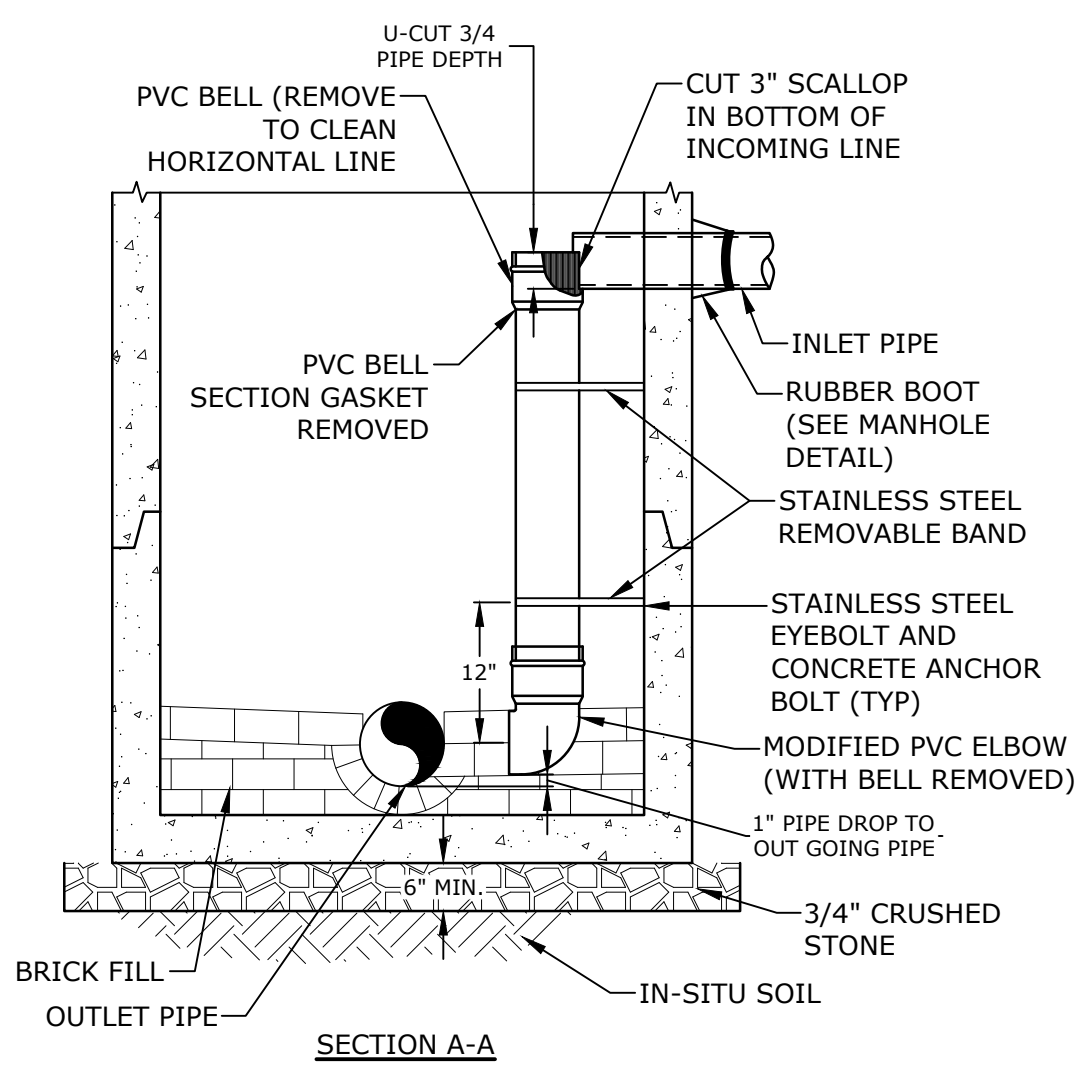
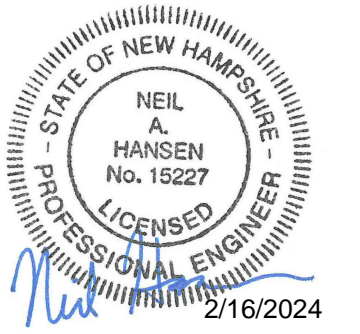


STANDARD SEWER SERVICE LATERAL CONNECTION
NO SCALE

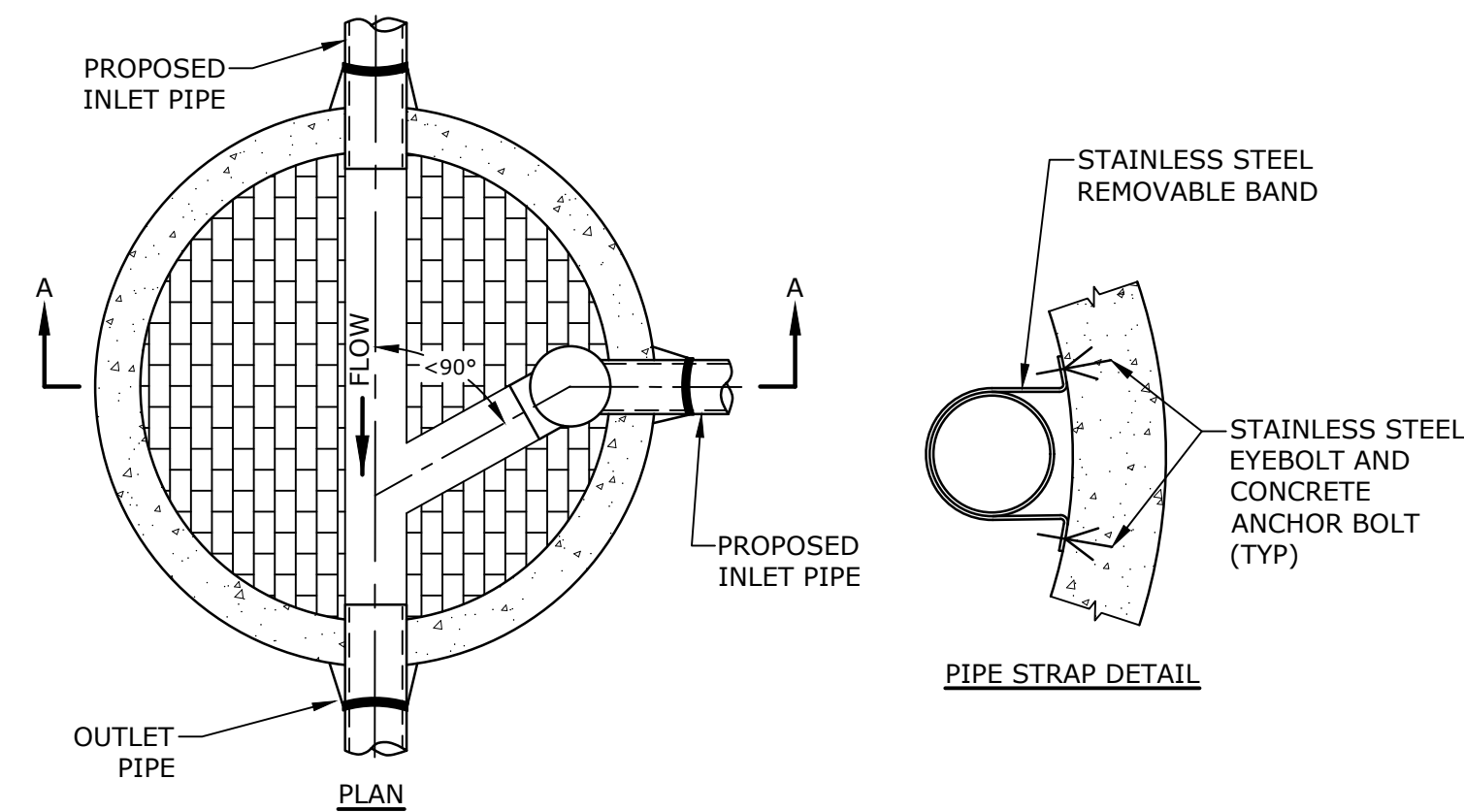


SEWER SERVICE TRENCH
NO SCALE

- NOTE:**
1. BEDDING FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK. BEDDING SHALL ALSO COMPLETELY ENCASE THE PIPE AND COVER THE PIPE TO A GRADE 12" OVER THE TOP OF THE PIPE FOR THE ENTIRE WIDTH OF THE TRENCH.
 2. COORDINATE ALL INSTALLATIONS WITH THE CITY OF PORTSMOUTH.

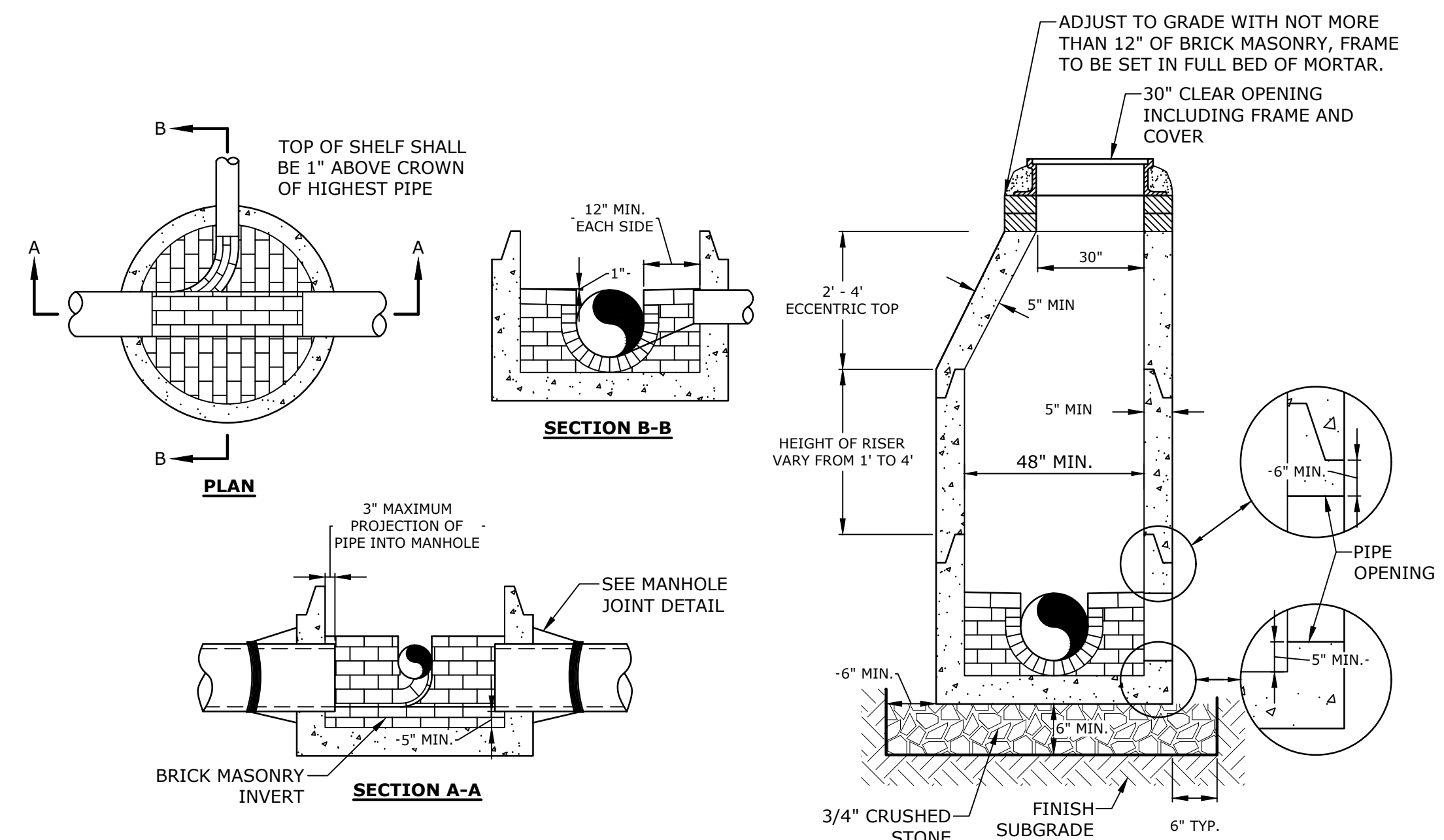


SECTION A-A



INSIDE DROP MANHOLE
NO SCALE

- NOTES:**
1. RISER PIPE AND FITTINGS SHALL BE THE SAME DIAMETER AS THE INLET PIPE AND SHALL BE CONSTRUCTED OF SDR35 PVC PIPE.
 2. SANITARY SEWER SHALL BE INSTALLED PER THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS STANDARDS.
 3. COORDINATE ALL INSTALLATIONS WITH THE CITY OF PORTSMOUTH.



SEWER MANHOLE
NO SCALE

- NOTES:**
1. INVERT AND SHELF TO BE PLACED AFTER EACH LEAKAGE TEST.
 2. CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT.
 3. INVERT BRICKS SHALL BE LAID ON EDGE.
 4. TWO (2) COATS OF BITUMINOUS WATERPROOF COATING SHALL BE APPLIED TO ENTIRE EXTERIOR OF MANHOLE.
 5. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS WITHIN CITY RIGHT OF WAY SHALL BE CITY STANDARD HINGE COVERS MANUFACTURED BY E.J. FRAMES AND COVERS WILL BE PURCHASED FROM THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS. ALL OTHER MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. A 3-INCH (MINIMUM HEIGHT) WORD "SEWER" SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER.
 6. HORIZONTAL JOINTS SHALL BE SEALED FOR WATER TIGHTNESS USING A DOUBLE ROW OF ELASTOMERIC OR MASTIC-LIKE SEALANT.
 7. BARREL AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE DESIGNED FOR H20 LOADING, AND CONFORMING TO ASTM C478-06.

Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
Portsmouth, NH

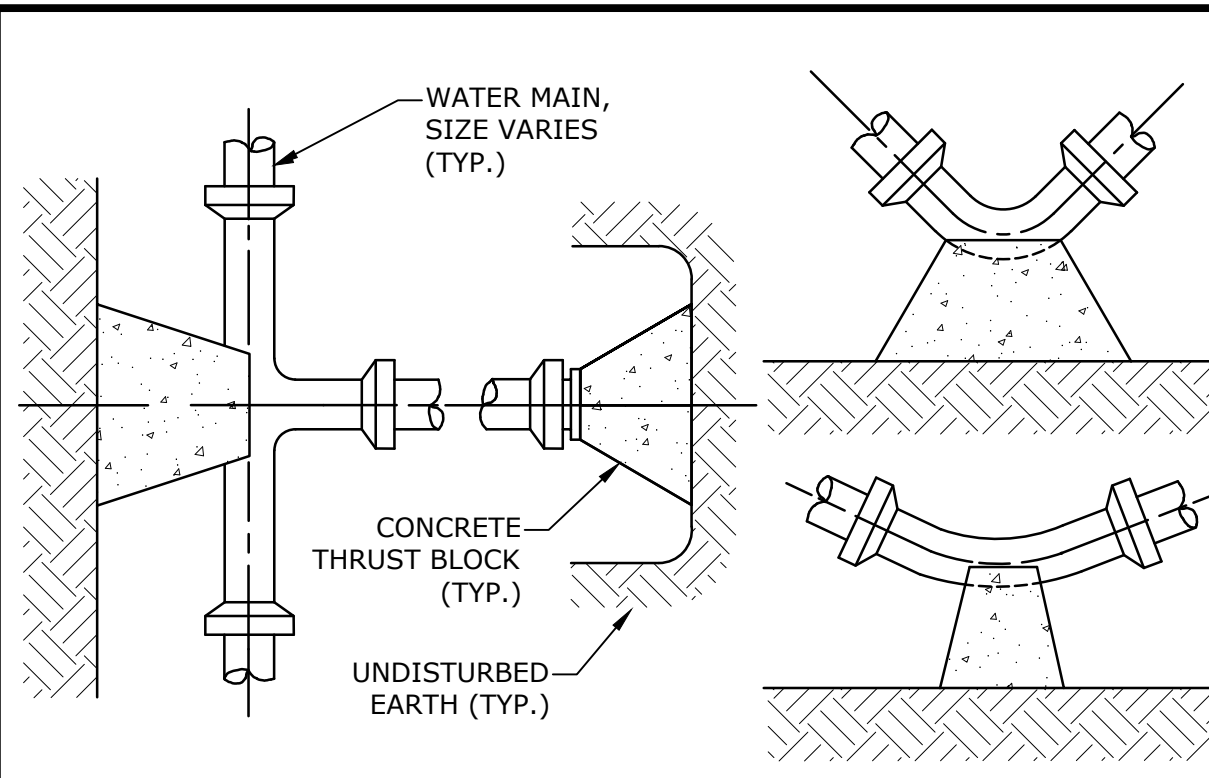
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DETAILS SHEET

SCALE: AS SHOWN

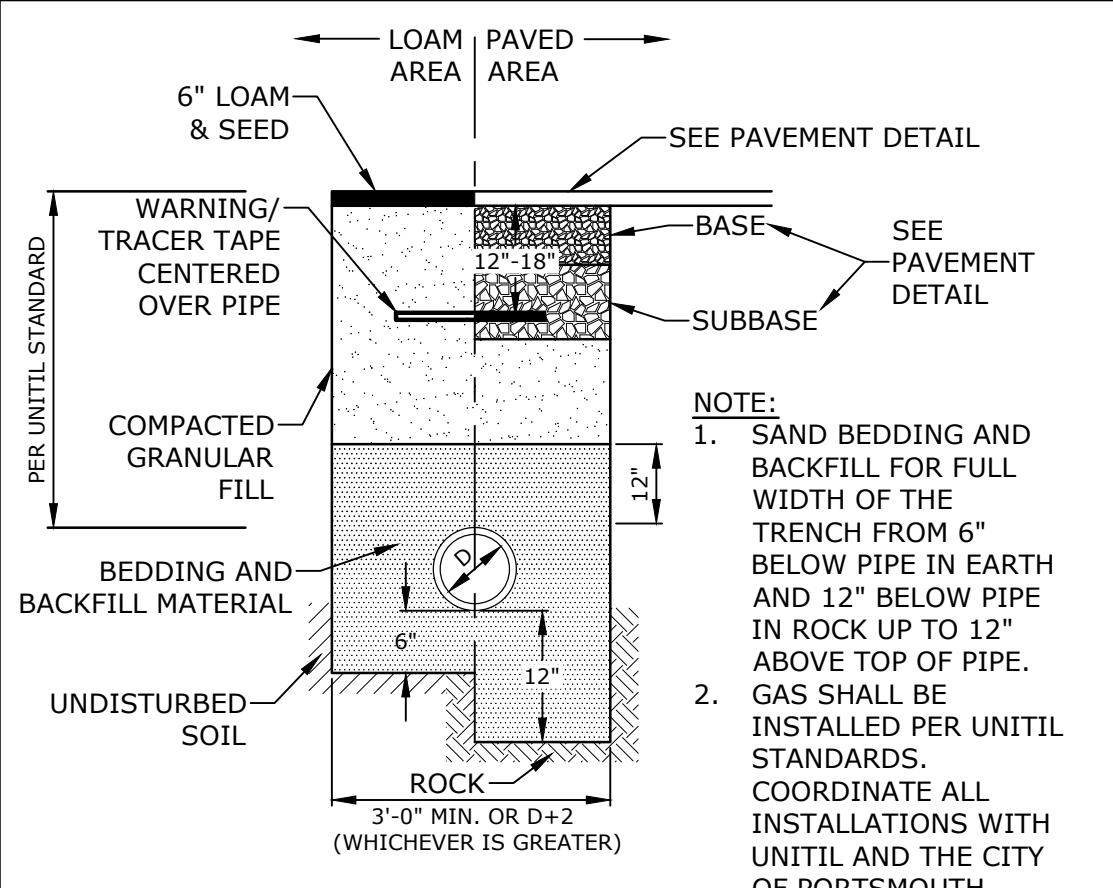
C-505



REACTION TYPE	PIPE SIZE				
	4"	6"	8"	10"	12"
A 90°	0.89	2.19	3.82	11.14	17.24
B 180°	0.65	1.55	2.78	8.38	12.00
C 45°	0.48	1.19	2.12	6.02	9.32
D 22-1/2°	0.25	0.60	1.06	3.08	4.74
E 11-1/4°	0.13	0.30	0.54	1.54	2.38

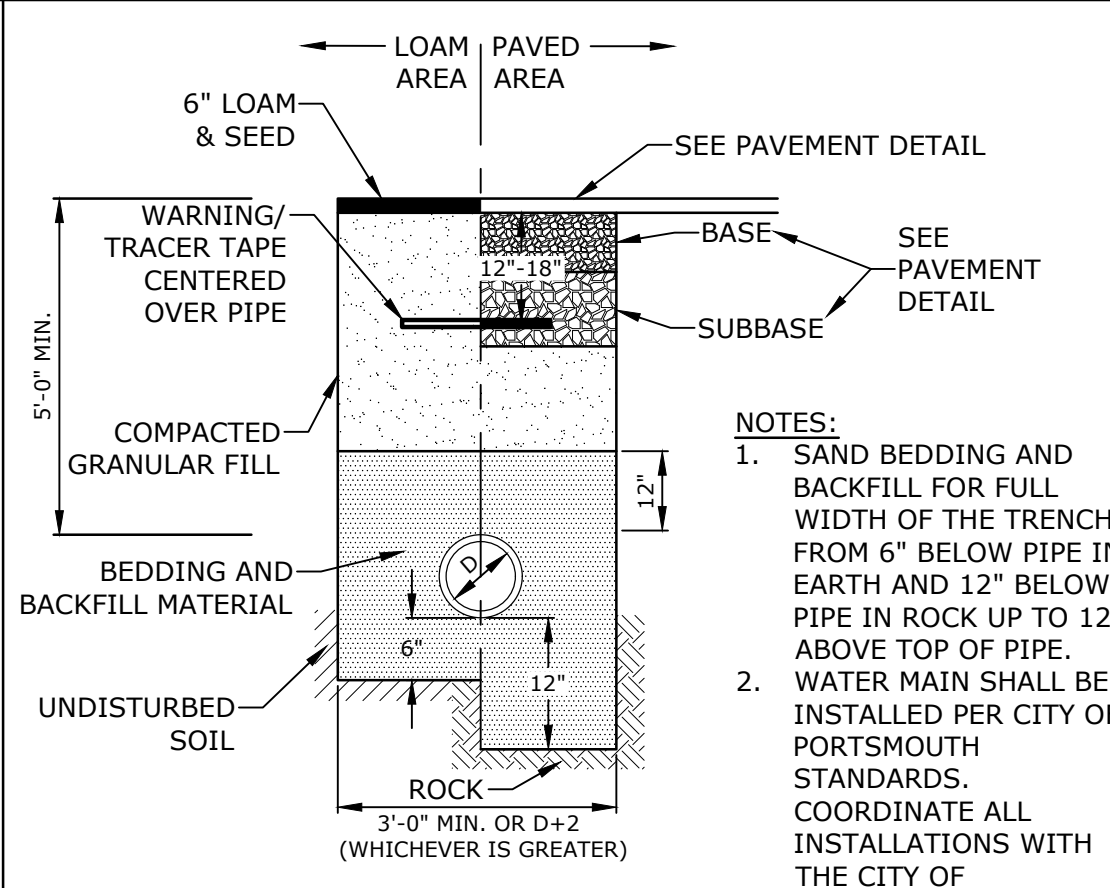
- TEST PRESSURE = 200PSI
- NOTES:
- POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL, WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
 - PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCKS.
 - WHERE M.J. PIPE IS USED, M.J. PLUG WITH RETAINER GLAND MAY BE SUBSTITUTED FOR END BLOCKINGS.
 - INSTALLATION AND STANDARD DIMENSIONAL REQUIREMENTS SHALL BE WITH CITY OF PORTSMOUTH WATER DEPARTMENT STANDARDS.

THRUST BLOCKING DETAIL
NO SCALE



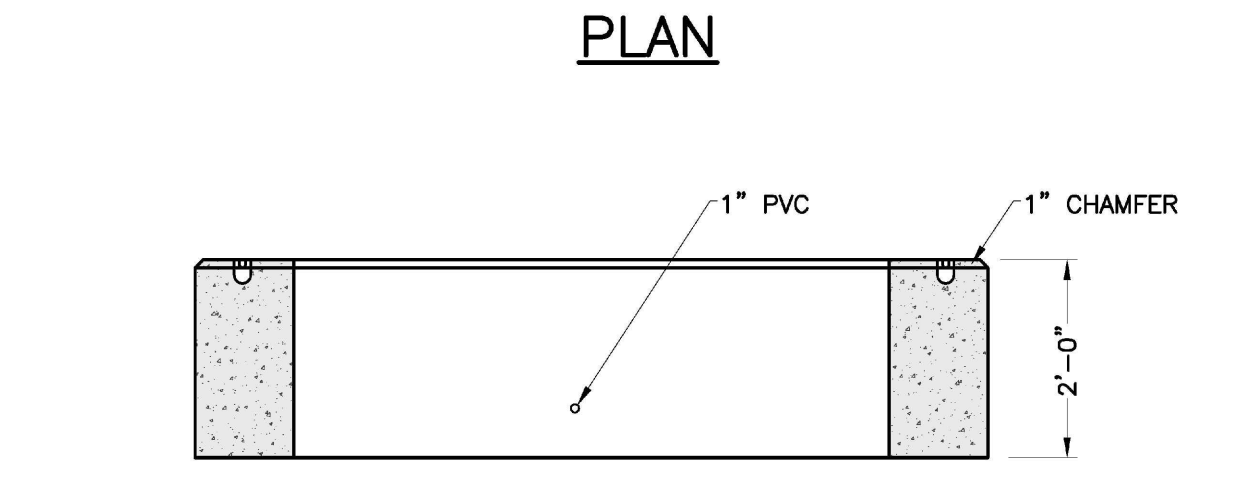
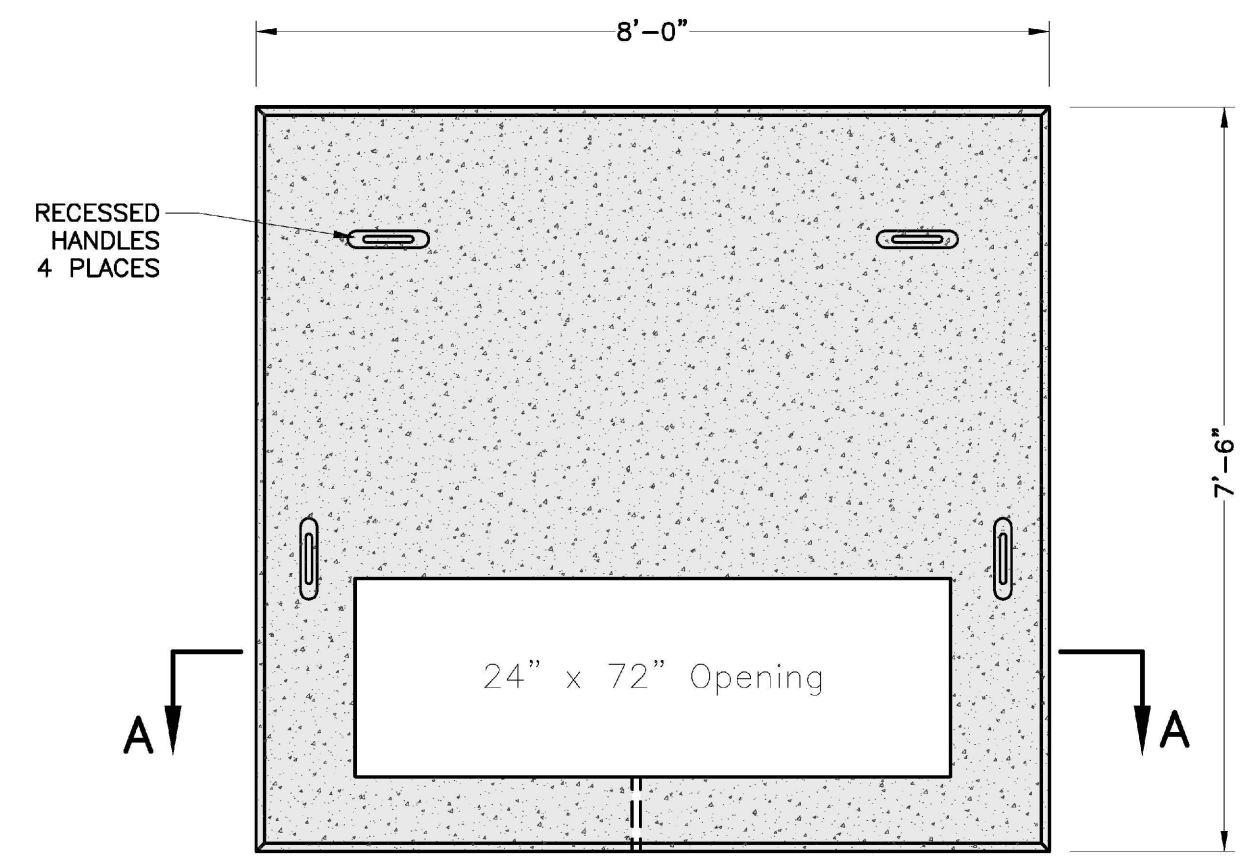
- NOTE:
- SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 12" ABOVE TOP OF PIPE.
 - GAS SHALL BE INSTALLED PER UNITIL STANDARDS. COORDINATE ALL INSTALLATIONS WITH UNITIL AND THE CITY OF PORTSMOUTH.

GAS TRENCH
NO SCALE



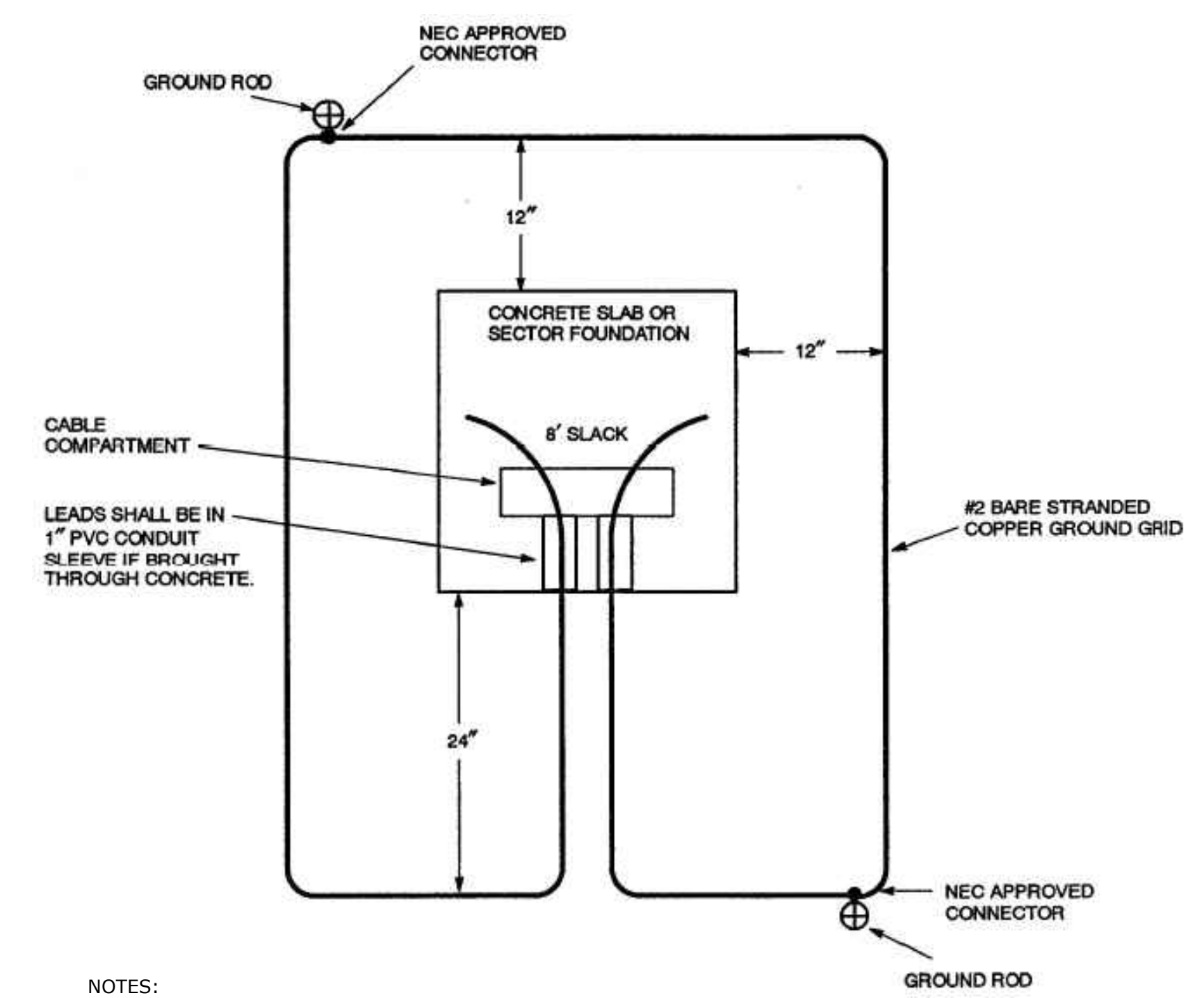
- NOTES:
- SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 12" ABOVE TOP OF PIPE.
 - WATER MAIN SHALL BE INSTALLED PER CITY OF PORTSMOUTH STANDARDS. COORDINATE ALL INSTALLATIONS WITH THE CITY OF PORTSMOUTH.

WATER TRENCH
NO SCALE



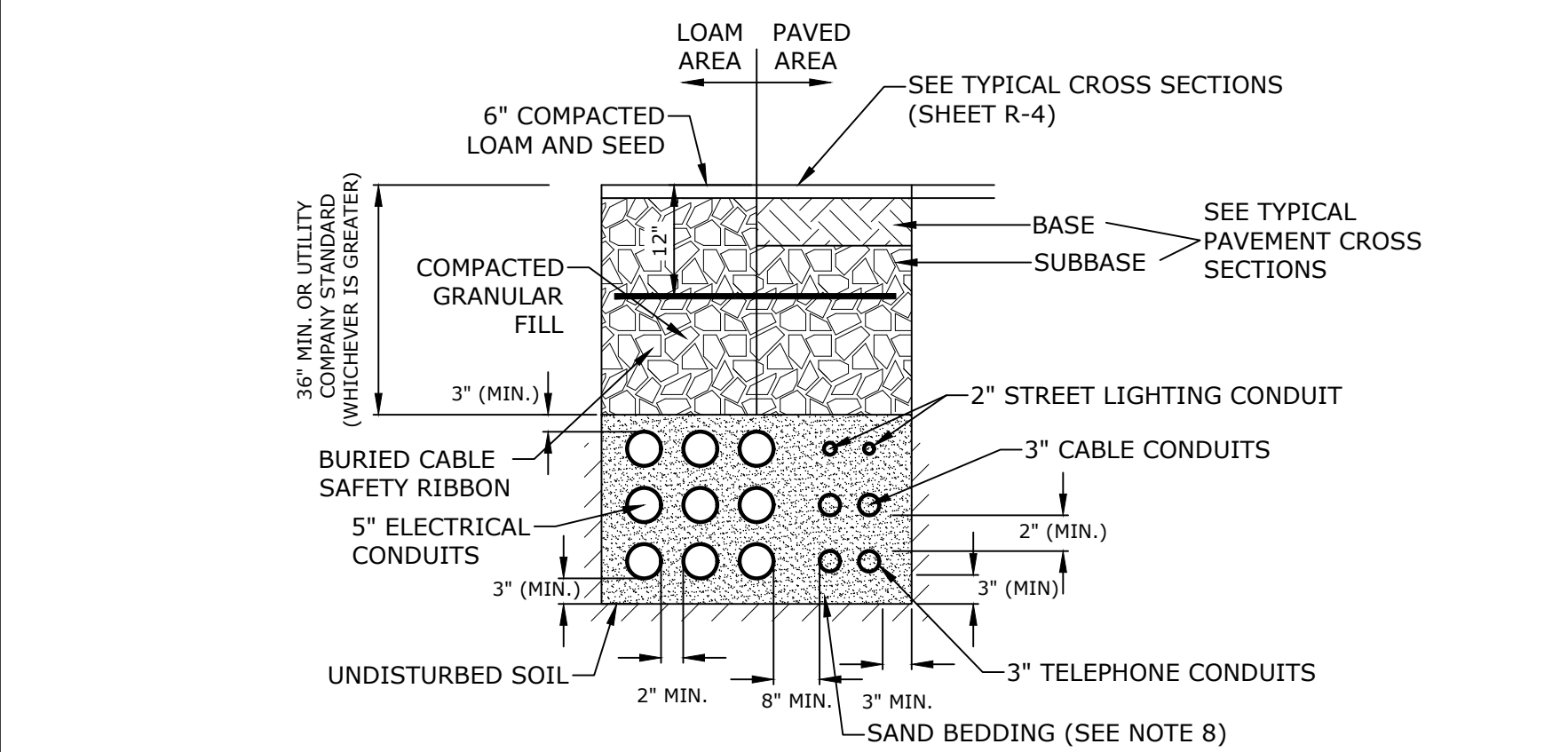
- NOTES:
- DIMENSIONS SHOWN REPRESENT TYPICAL REQUIREMENTS. MANHOLE LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED WITH EVERSOURCE PRIOR TO CONSTRUCTION
 - CONCRETE MINIMUM STRENGTH - 4,000 PSI @ 28 DAYS
 - STEEL REINFORCEMENT - ASTM A615, GRADE 60
 - PAD MEETS OR EXCEEDS EVERSOURCE SPECIFICATIONS

3-PHASE TRANSFORMER PAD
NO SCALE



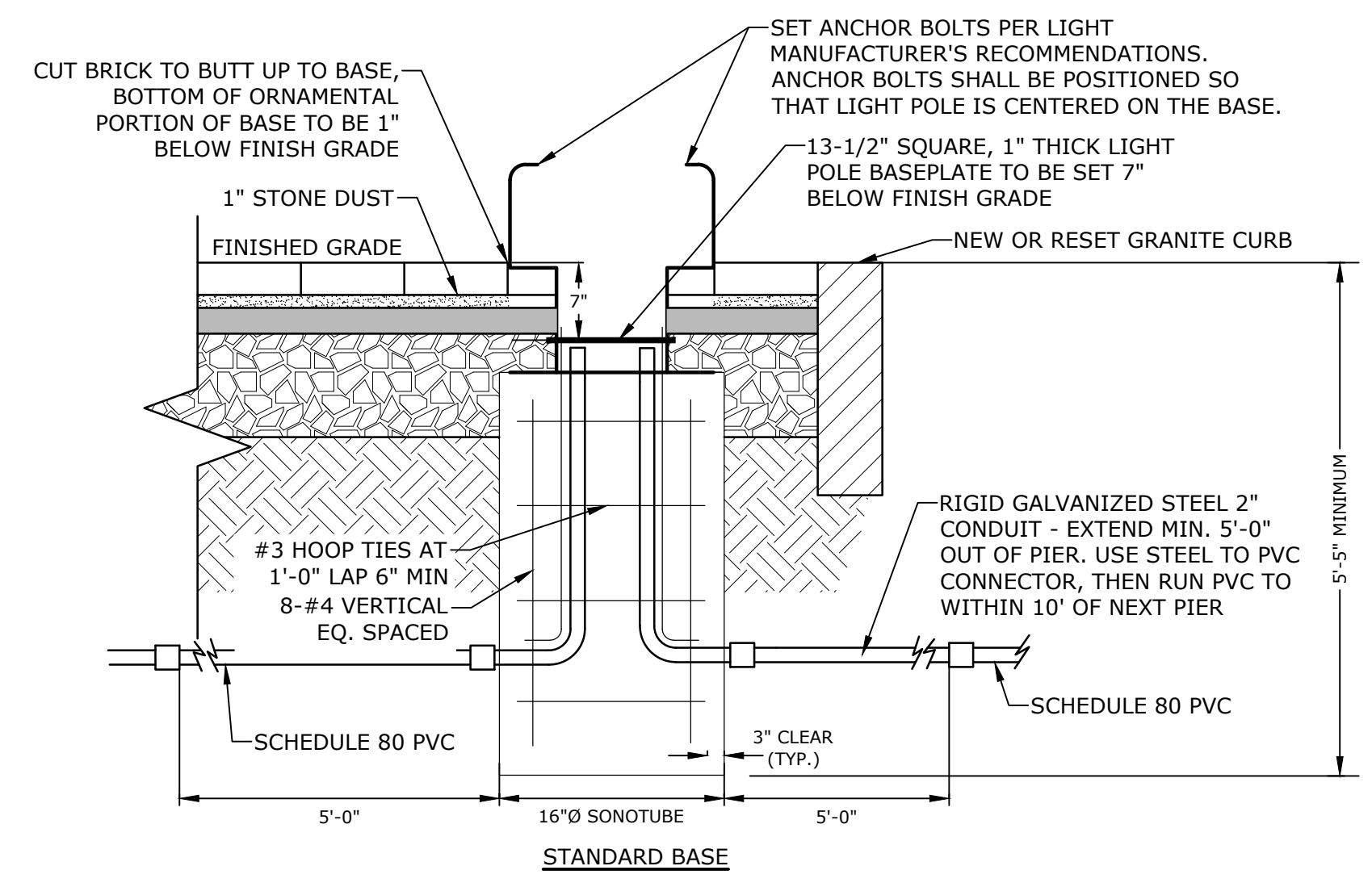
- NOTES:
- THE GROUND GRID SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AND IS TO BE BURIED AT LEAST 12 INCHES BELOW GRADE. EIGHT FEET OF EXTRA WIRE FOR EACH GROUND GRID LEG SHALL BE LEFT EXPOSED IN THE CABLE COMPARTMENT TO ALLOW FOR THE CONNECTION TO THE TRANSFORMER. THE TWO 8-FOOT GROUND RODS MAY BE EITHER GALVANIZED STEEL OR COPPERWELD AND THEY SHALL BE CONNECTED TO THE GRID WITH NEC APPROVED CONNECTORS.

PAD-MOUNTED EQUIPMENT GROUNDING GRID DETAIL
NO SCALE



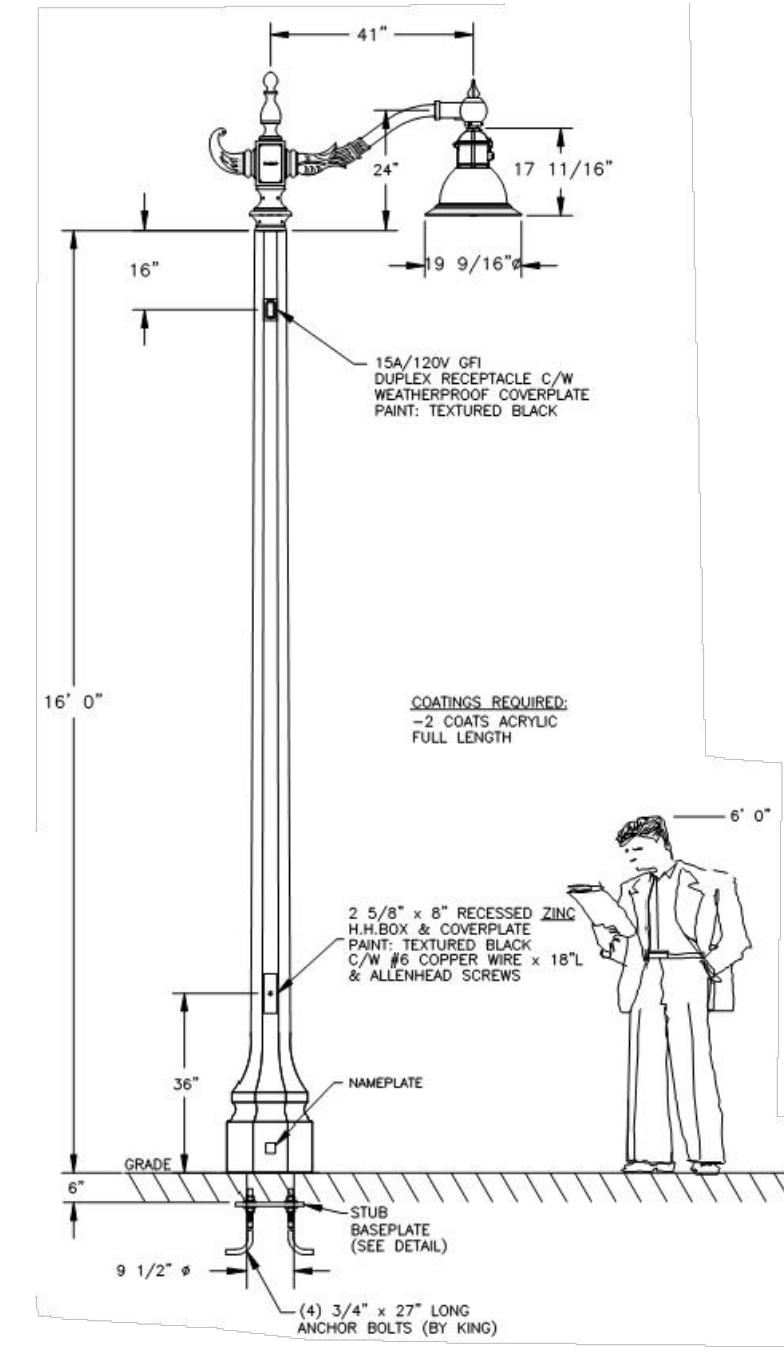
- NOTES:
- NUMBER, MATERIAL, AND SIZE OF UTILITY CONDUITS TO BE DETERMINED BY LOCAL UTILITY OR AS SHOWN ON ELECTRICAL DRAWINGS. CONTRACTOR TO PROVIDE ONE SPARE CONDUIT FOR EACH UTILITY TO BUILDING.
 - DIMENSIONS SHOWN REPRESENT OWNERS MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY BE GREATER BASED ON UTILITY COMPANY STANDARDS, BUT SHALL NOT BE LESS THAN THOSE SHOWN.
 - NO CONDUIT RUN SHALL EXCEED 360 DEGREES IN TOTAL BENDS.
 - A SUITABLE PULLING STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE UTILITY COMPANY IS NOTIFIED TO INSTALL CABLE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.
 - UTILITY COMPANY MUST BE GIVEN THE OPPORTUNITY TO INSPECT THE CONDUIT PRIOR TO BACKFILL. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS SHOULD THE UTILITY COMPANY BE UNABLE TO INSTALL ITS CABLE IN A SUITABLE MANNER.
 - ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND, WHERE APPLICABLE, THE NATIONAL ELECTRIC CODE.
 - ALL 90° SWEEPS WILL BE MADE USING RIGID GALVANIZED STEEL. SWEEPS WITH A 36 TO 48 INCH RADIUS.
 - SAND BEDDING TO BE REPLACED WITH CONCRETE ENCASEMENT WHERE COVER IS LESS THAN 3 FEET, WHEN LOCATED BELOW PAVEMENT, OR WHERE SHOWN ON THE UTILITIES PLAN.

ELECTRICAL AND COMMUNICATION CONDUIT
NO SCALE



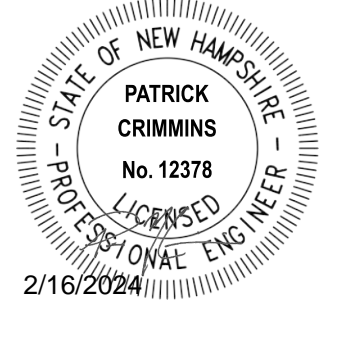
- NOTES:
- REFER TO ELECTRICAL PLANS FOR WIRING DETAILS.
 - CONCRETE: 4000 PSI, AIR ENTRAINED STEEL: 60 KSI
 - LIGHT POLE FOUNDATIONS SHALL BE PLACED PRIOR TO INSTALLATION OF BRICK PAVERS.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL, TO INCLUDE PERFORMANCE SPECIFICATIONS, CALCULATIONS AND NH LICENSED STRUCTURAL ENGINEER'S STAMP FOR LIGHT POLE FOUNDATION.
 - STANDARD BASE SHALL BE CONSTRUCTED UNLESS THERE IS CONFLICT WITH THE EXISTING DUCT BANK. SPREAD FOOTING BASE SHALL BE USED IN LIEU OF STANDARD BASE IN LOCATIONS WHERE TOP OF DUCT BANK ELEVATION WILL CONFLICT WITH STANDARD POLE BASE DEPTH. CONTRACTOR SHALL VERIFY LOCATIONS WHERE SPREAD FOOTINGS ARE REQUIRED PRIOR TO CONSTRUCTION. SEE NOTE#4 FOR SUBMITTAL REQUIREMENTS.

NORTH END LIGHT FIXTURE BASE
NO SCALE



- LUMINAIRE SPECIFICATIONS:
- CATALOGUE NO.: K729-P4FL-II-60(SSL)
-7030-120-277-3K S/F KPL20
- GLOBE MAT'L: FLAT ARRAY, CLEAR FLAT LENS
TYPE II
- WATTAGE: 60W (7030 SERIES)
- LIGHT SOURCE: SOLID STATE LIGHTING
- LINE VOLTAGE: 120-277V
- CCT: 3000K
- PAINT: TEXTURED BLACK
- OPTIONS: S/F KPL-20 LEVELING DEVICE
- ARM SPECIFICATIONS:
- CATALOGUE NO.: (MOD.) KA72-T-1-3
- MATERIAL: ALUMINUM
- PAINT: TEXTURED BLACK
- OPTIONS: KPL20 LEVELING DEVICE
- POLE SPECIFICATIONS:
- CATALOGUE NO.: KBH16-G-S11-SBP
- C/W 140-30/100 & DR
- OCTAGONAL
- ECLIPSE
- FINISH: POLISHED
- POLE TOP: 6 3/8" FL/FL
- POLE BUTT: 9 1/2" Ø
- POLE LENGTH: 16' 6"
- APPROX. WEIGHT: 1,190 LBS.
- MIN. RACEWAY: 1 1/8" Ø

DISTRICT STANDARD LIGHT POLE & FIXTURE
NO SCALE



Proposed Mixed Use Development

CPI Management, LLC

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Portsmouth, NH

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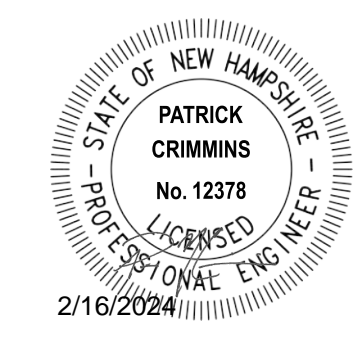
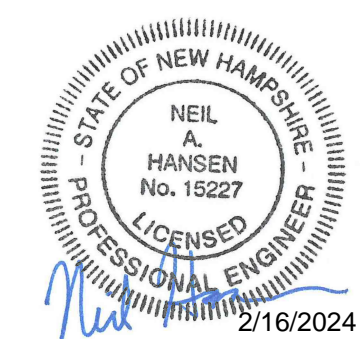
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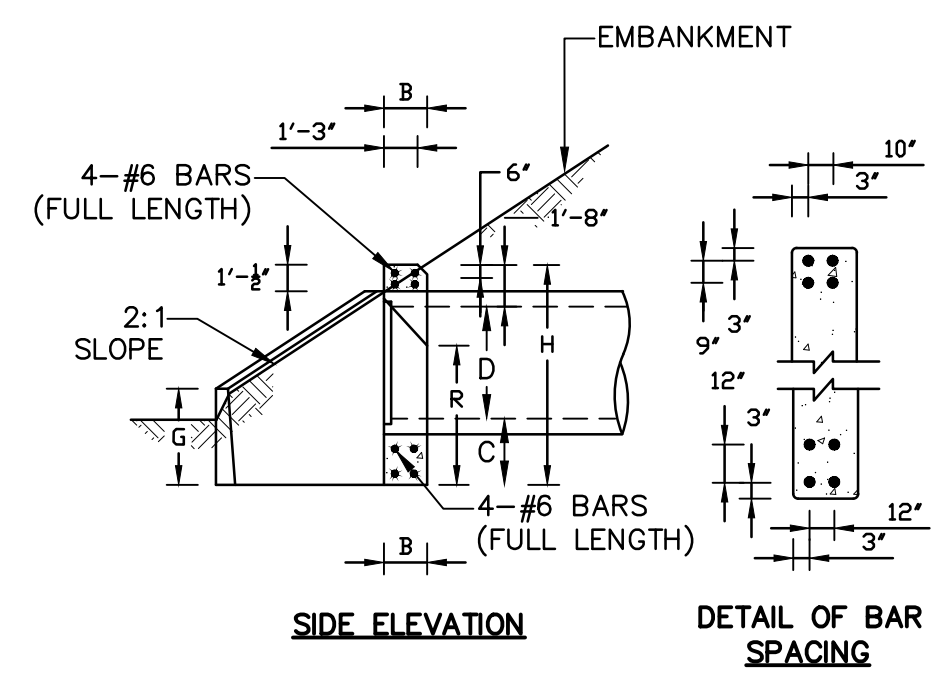
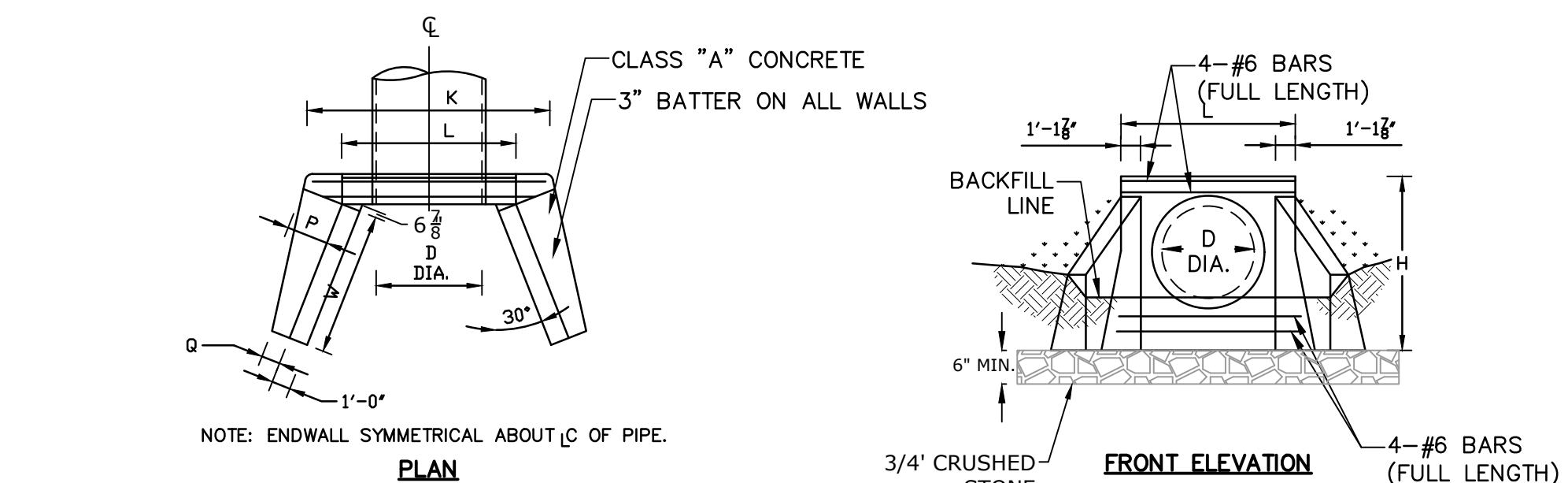
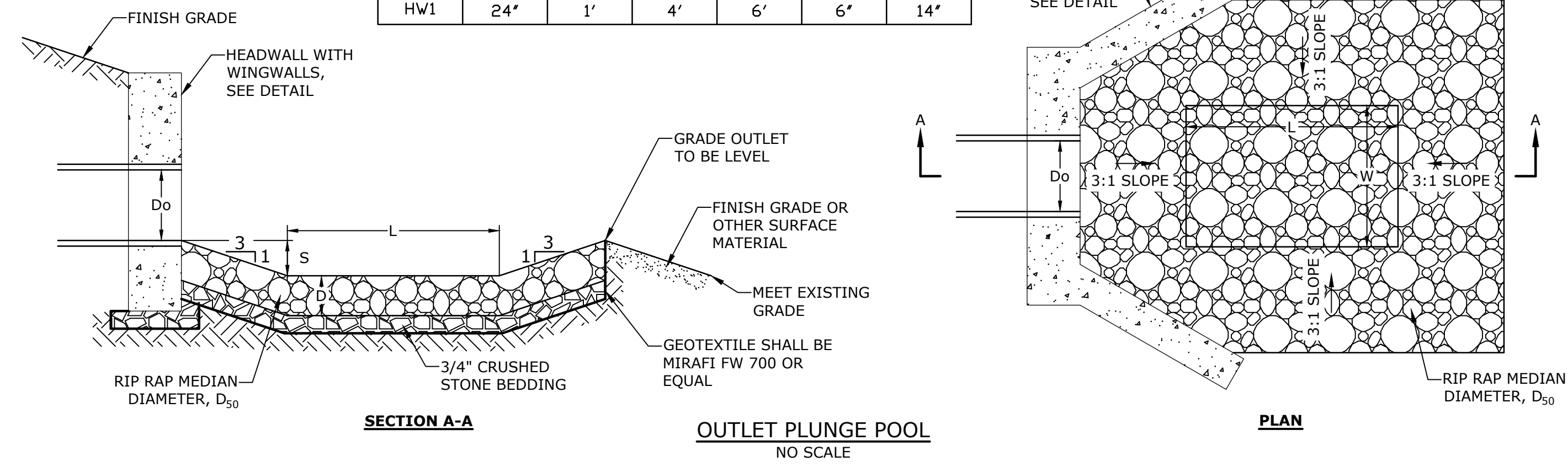
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OUTLET PLUNGE POOL SIZING

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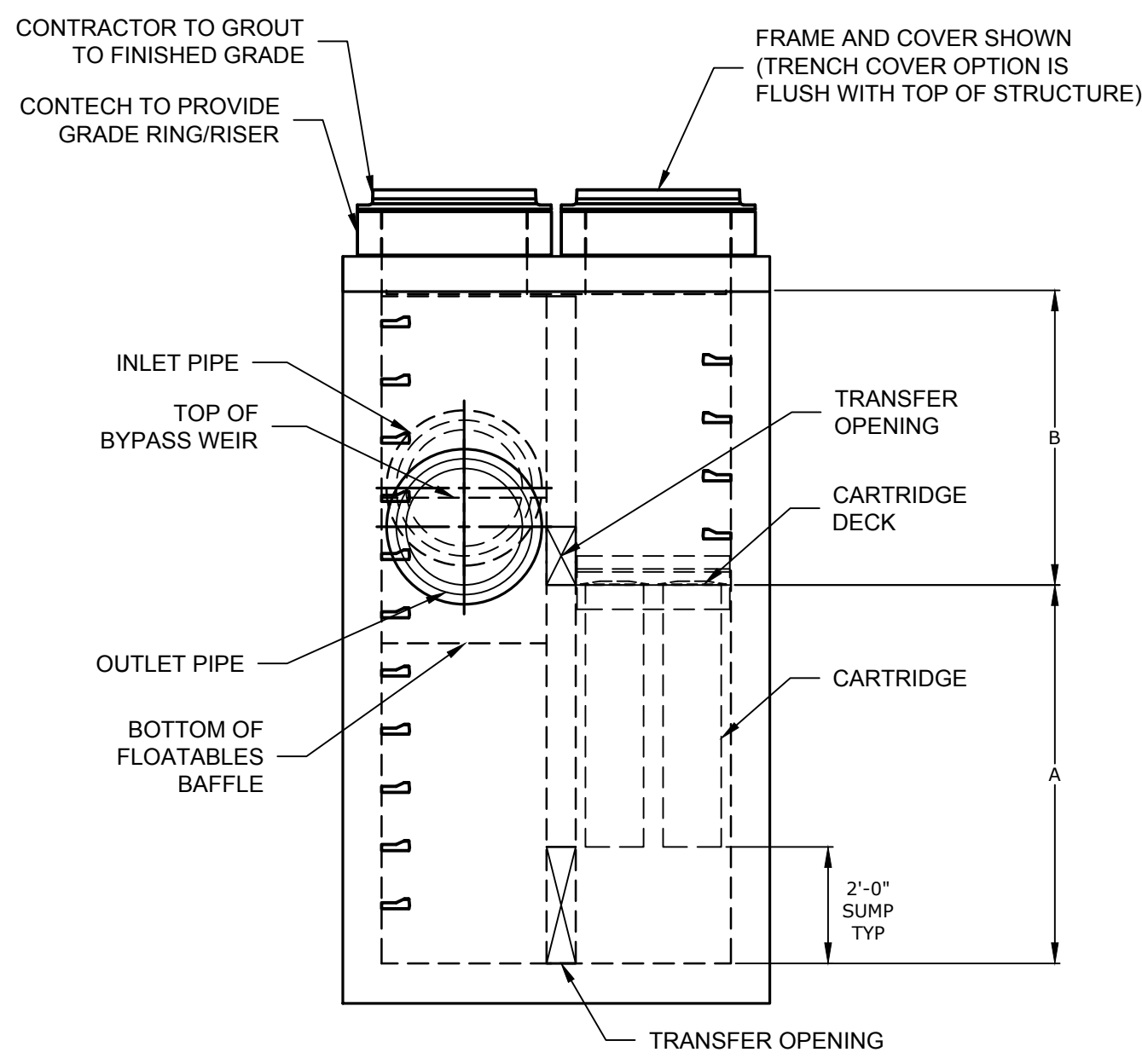
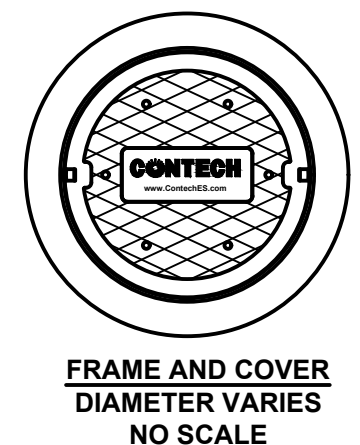
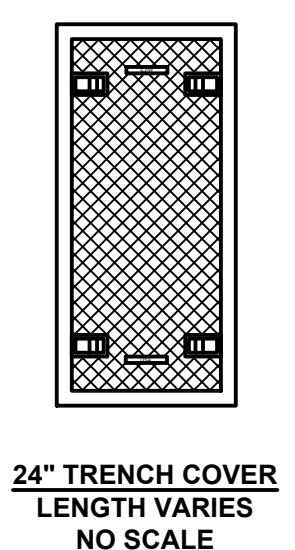
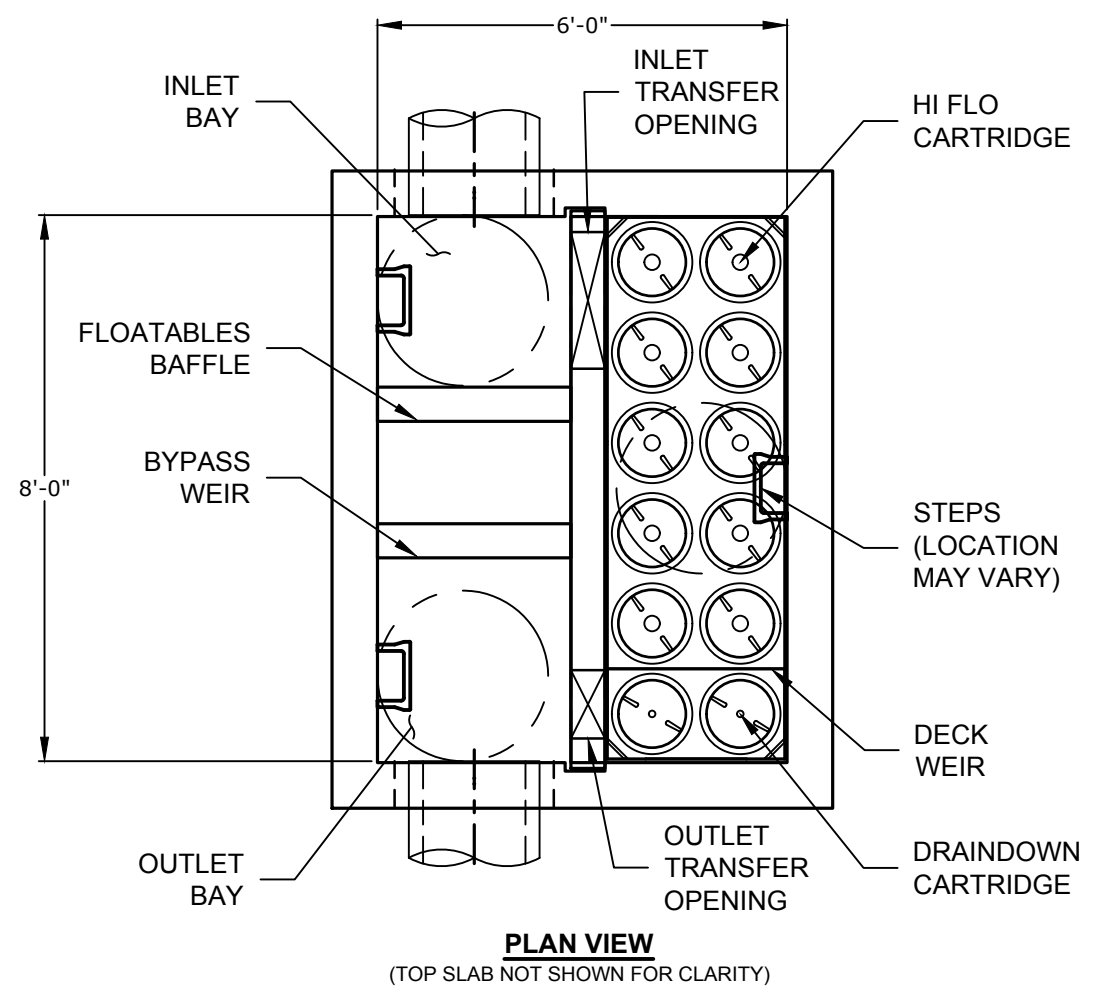


DIMENSIONS AND QUANTITIES FOR ONE WING TYPE ENDWALL

D	B	C	G	H	K	L	P	Q	R	W	VOL.
IN.*	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	CY
24	1'-6"	2'-0"	3'-3"	6'-9"	9'-1 1/2"	7'-3 3/4"	1'-4 1/2"	0'-9 1/2"	3'-4 1/2"	5'-5 1/2"	5.87
36	1'-6"	2'-0"	3'-3"	6'-8"	9'-1 1/2"	7'-3 3/4"	1'-4 1/2"	0'-9 1/2"	3'-4 1/2"	5'-5 1/2"	5.87
42	1'-6"	2'-0"	3'-3"	7'-2"	9'-10 1/2"	7'-9 3/4"	1'-6 1/2"	0'-9 1/2"	3'-10 1/2"	6'-7 1/2"	6.67

* FOR D < 36" USE DIMENSIONS LISTED FOR D = 36"

HEADWALL WITH WINGWALLS
NO SCALE



JELLYFISH JFPD0806 - DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE LENGTH AND THE NUMBER OF CARTRIDGES. THE STANDARD PEAK DIVERSION STYLE WITH PRECAST TOP SLAB IS SHOWN. ALTERNATE OFFLINE VAULT AND/OR SHALLOW ORIENTATIONS ARE AVAILABLE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.

CARTRIDGE SELECTION	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-6"	5'-4"	4'-3"	3'-3"
FLOW RATE (HI-FLO) DRAINDOWN (GFS) (PER CART)	0.178 / 0.089	0.133 / 0.067	0.089 / 0.045	0.049 / 0.025
MAX. TREATMENT (CFST)	1.96	1.47	0.98	0.54
DECK TO INSIDE TOP (MIN) (B)	5.00	4.00	4.00	4.00

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	JF-1
MODEL SIZE	JFPD0806
WATER QUALITY FLOW RATE (cfs)	0.95
PEAK FLOW RATE (cfs)	9.38
RETURN PERIOD OF PEAK FLOW (yrs)	50
# OF CARTRIDGES REQUIRED (HF / DD)	5/1
CARTRIDGE SIZE	54"

JELLYFISH FILTER DETAIL (JF-1)
NO SCALE

- GENERAL NOTES:**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.ContechES.com
 - JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 - STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0'-3" AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M808 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
 - STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.
 - OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
 - THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE AT EQUAL OR GREATER SLOPE.
 - NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.
- INSTALLATION NOTES:**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 - CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
 - CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (866) 740-3318.

CONTECH
ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45380
800-338-1122 513-645-7000 513-645-7993 FAX

Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
Portsmouth, NH

MARK	DATE	DESCRIPTION
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C	4/21/2021	TAC Resubmission
B	3/22/2021	TAC & CC Submission
A	1/27/2021	CC Work Session

PROJECT NO:	C0960-011
DATE:	January 27, 2021
FILE:	C0960-011_C-DTLS.DWG
DRAWN BY:	AFS
CHECKED:	NAH
APPROVED:	PMC

DETAILS SHEET

SCALE: AS SHOWN

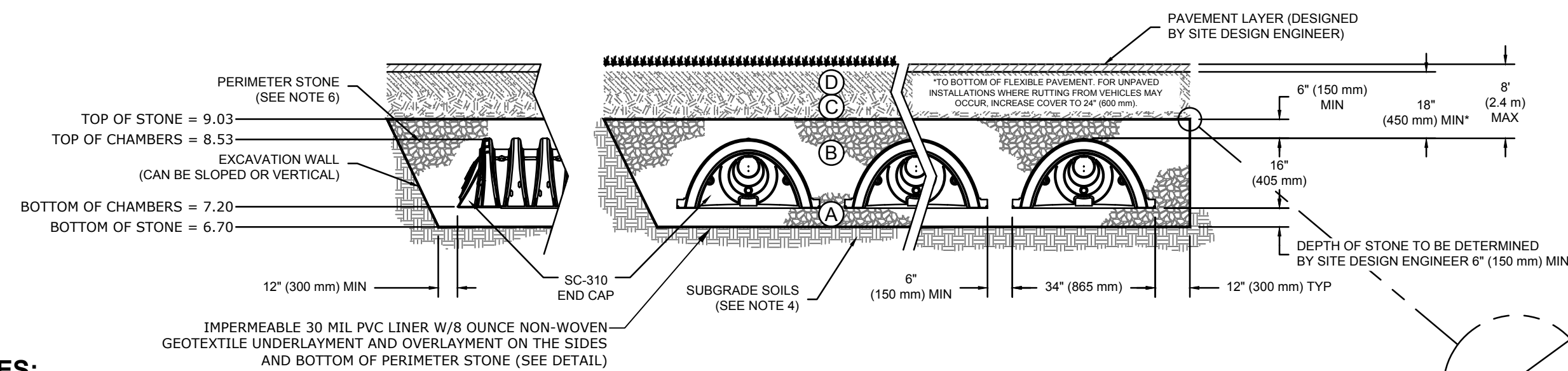
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ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBERS. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2, A-3 OR AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. **

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR, FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE."
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTION. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN AND CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

STORMTECH CHAMBER SPECIFICATIONS

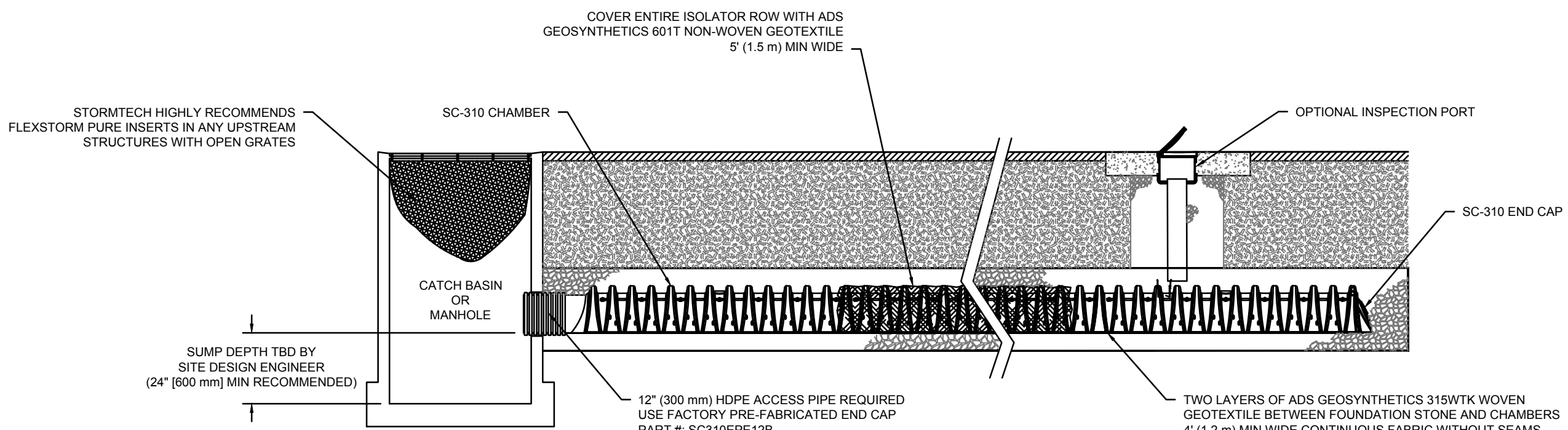
- CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUAL.
- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS. ^j
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". ^j
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET, THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

NOTES FOR CONSTRUCTION EQUIPMENT ^j

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". ^j
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". ^j
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



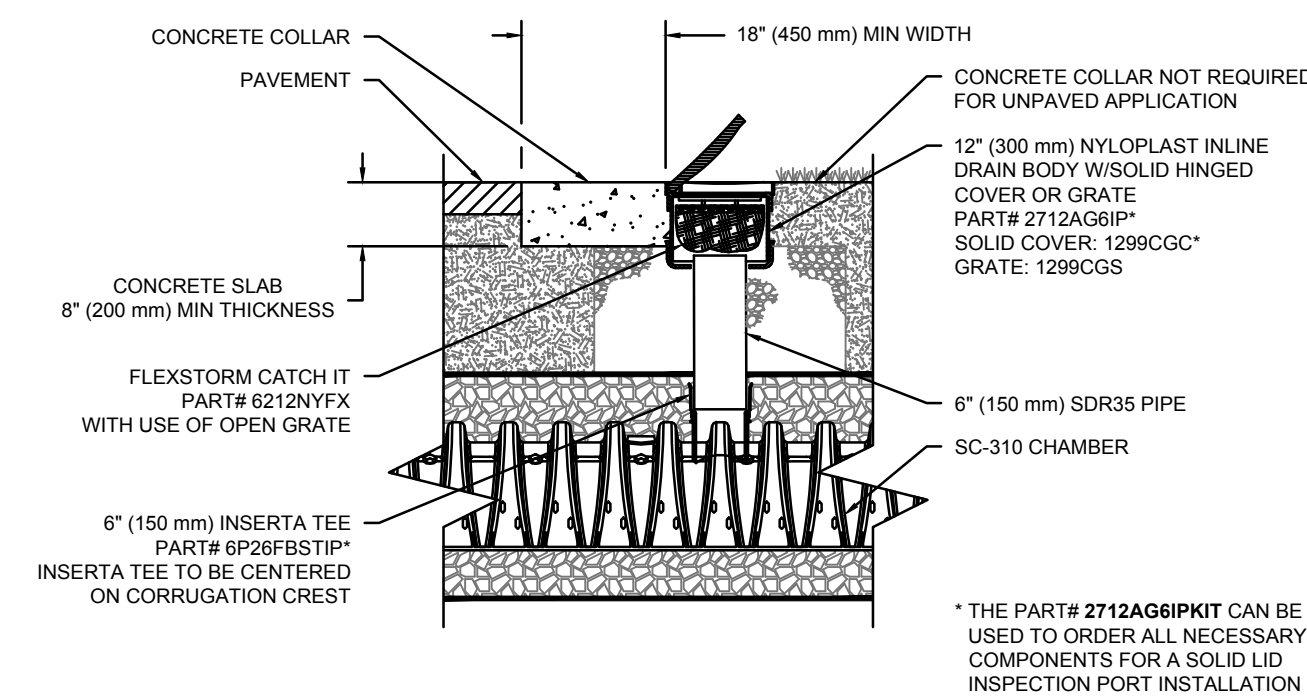
SC-310 ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS, RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

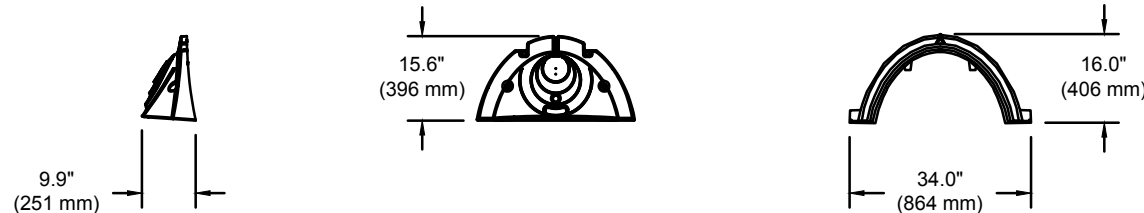
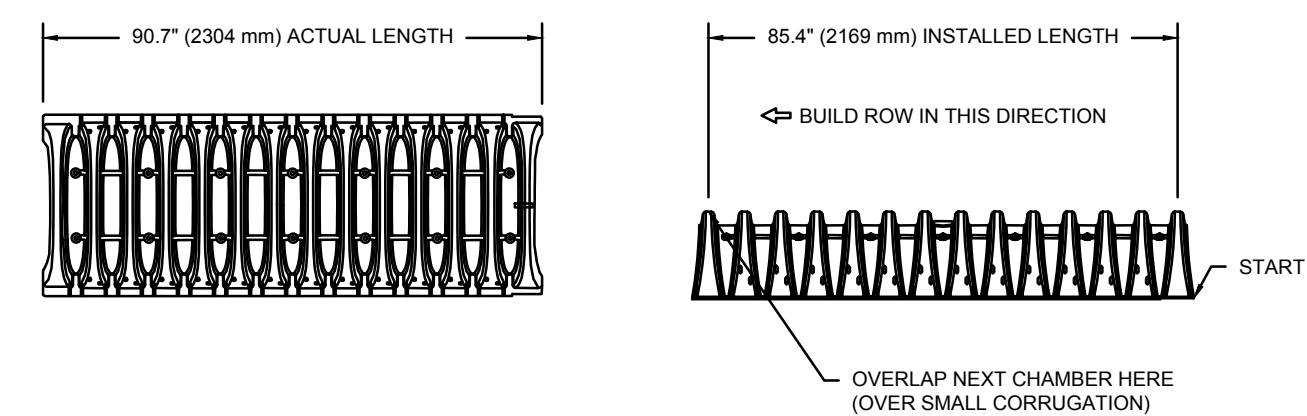


SC-310 6\"/>

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS. ^j
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE". ^j
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. ^j STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR. ^j
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS. ^j
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE. ^j
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS. ^j
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4"-2" (20-50 mm). ^j
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER. ^j
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

SC-310 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS
SIZE (W X H X INSTALLED LENGTH)

CHAMBER STORAGE	MINIMUM INSTALLED STORAGE*	WEIGHT
34.0" X 16.0" X 85.4" (0.42 m³)	14.7 CUBIC FEET (0.88 m³)	35.0 lbs. (16.8 kg)
864 mm X 406 mm X 2169 mm	14.7 CUBIC FEET (0.88 m³)	35.0 lbs. (16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS

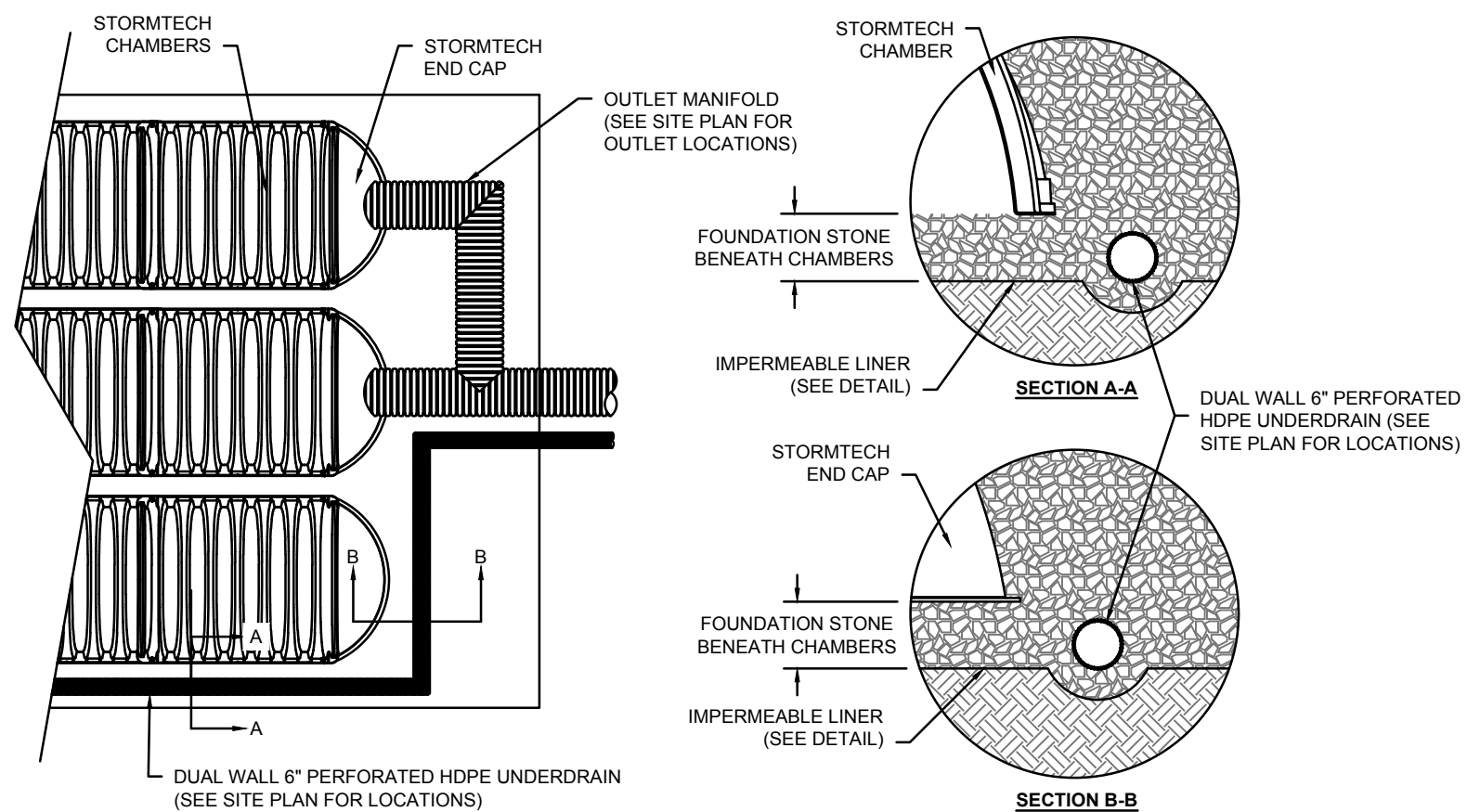
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC310EP06T / SC310EP06TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	—
SC310EP06B / SC310EP06BPC	—	—	—	0.5" (13 mm)
SC310EP08T / SC310EP08TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	—
SC310EP08B / SC310EP08BPC	—	—	—	0.6" (15 mm)
SC310EP10T / SC310EP10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	—
SC310EP10B / SC310EP10BPC	—	—	—	0.7" (18 mm)
SC310EP12B	12" (300 mm)	13.5" (343 mm)	—	0.9" (23 mm)

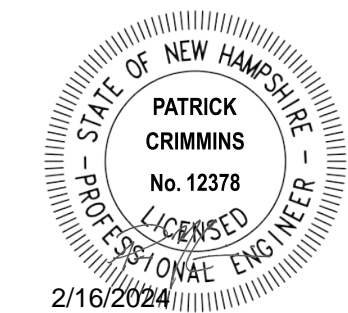
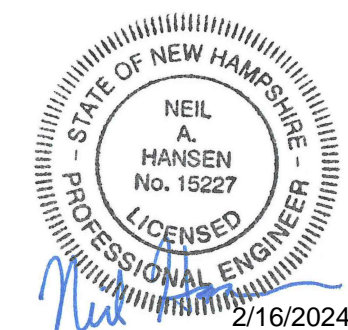
ALL STUBS, EXCEPT FOR THE SC310EP12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310EP12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL



UNDERDRAIN DETAIL
NTS



Proposed Mixed Use Development

CPI Management, LLC

**53 Green Street
Portsmouth, NH**

MARK	DATE	DESCRIPTION
J	2/16/2024	NHDES Wetland & Shoreland Submission
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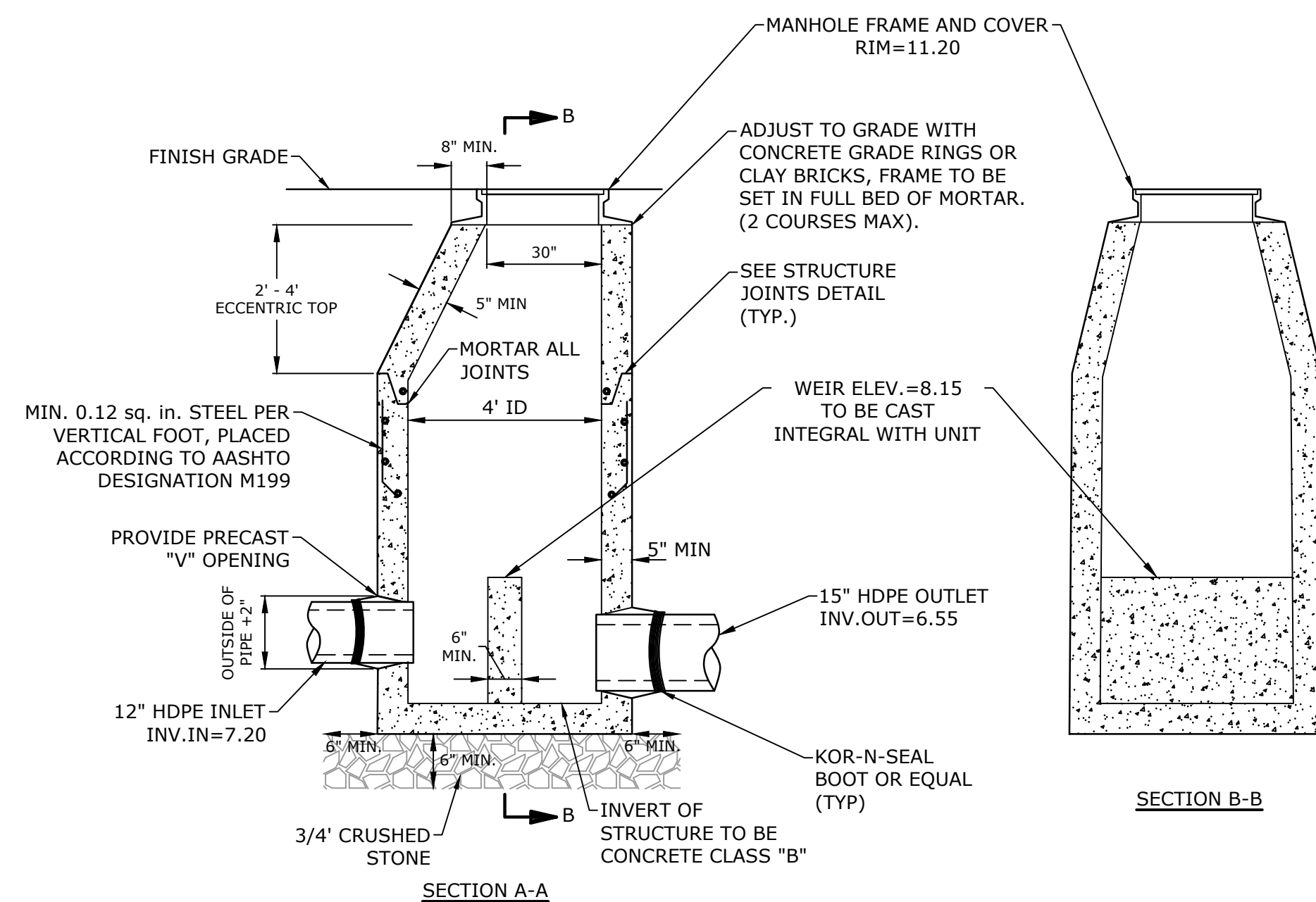
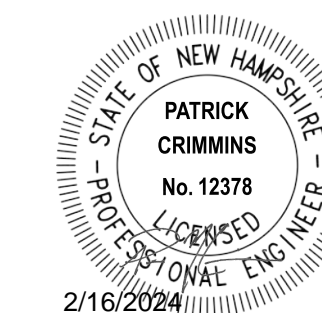
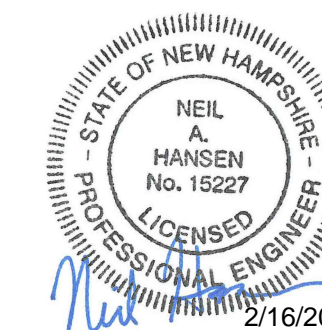
PROJECT NO: C0960-011
DATE: January 27, 2021
FILE: C0960-011_C-DTLS.DWG

DRAWN BY: AFS
CHECKED: NAH
APPROVED: PMC

DETAILS SHEET

SCALE: AS SHOWN

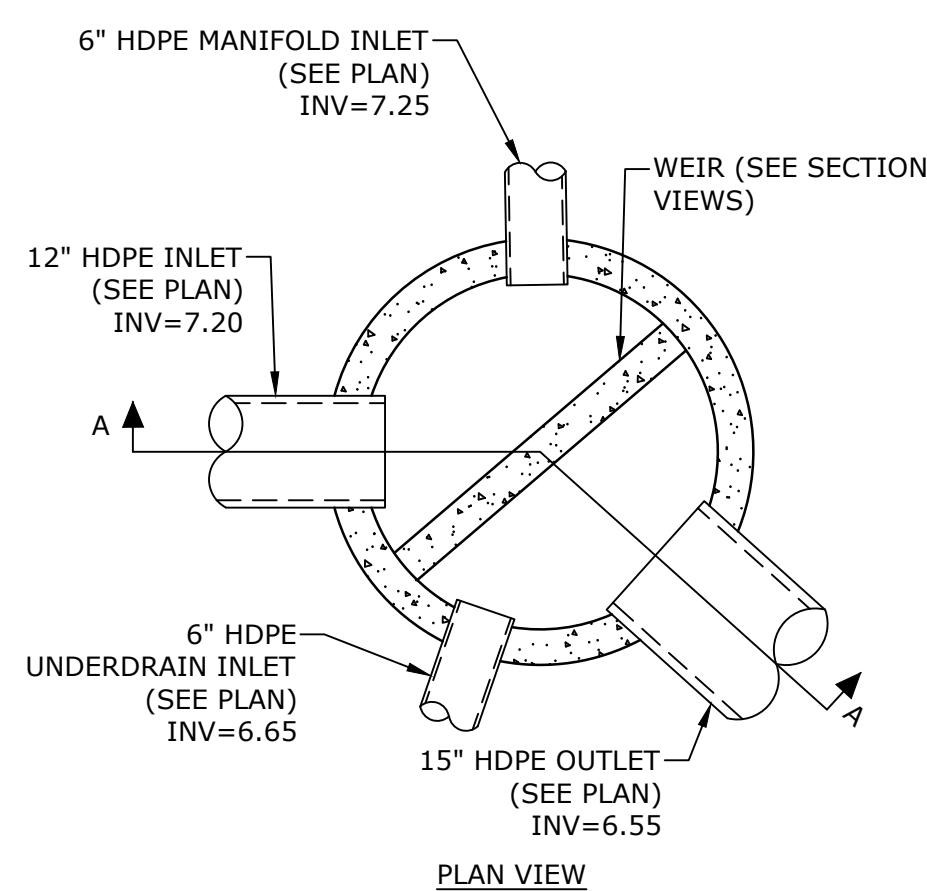
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NOTES:

1. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE.
2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
3. THE TONGUE AND GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT.
4. THE STRUCTURES SHALL BE DESIGNED FOR H2O LOADING.
5. CONSTRUCT CRUSHED STONE BEDDING AND BACKFILL UNDER (6\"/>

OUTLET STRUCTURE DETAIL (POS1)
NO SCALE

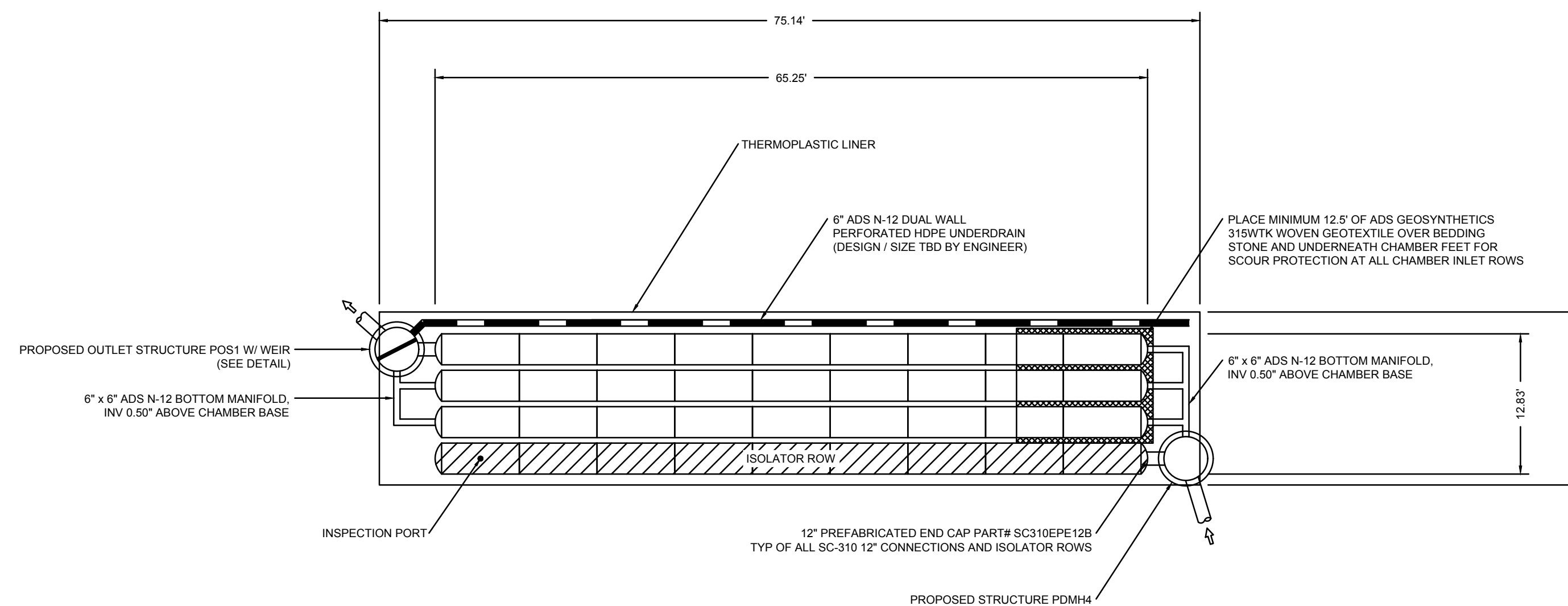


UNDERGROUND DETENTION LAYOUT

(36) STORMTECH SC-310 CHAMBERS
(9) STORMTECH SC-310 END CAPS
INSTALLED WITH 6\"/>

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	16.53
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	10.53
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	10.03
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	10.03
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	10.03
TOP OF STONE:	9.03
TOP OF CHAMBER:	8.53
12\"/>	
6\"/>	
BOTTOM OF STONE:	6.70



STORMTECH SC-310 CHAMBER LAYOUT
NO SCALE

Proposed Mixed Use Development

CPI Management, LLC

53 Green Street
Portsmouth, NH

MARK	DATE	DESCRIPTION
J	2/16/2024	NHDES Wetland & Shoreland Submission
I	1/22/2024	Sewer Connection Permit
H	8/5/2021	Revised Site Data Table
G	7/20/2021	AoT Additional Info. Request
F	7/8/2021	AoT Resubmission
E	7/7/2021	PB Submission
D	5/19/2021	TAC Resubmission
C	4/21/2021	TAC Resubmission
B	3/22/2021	TAC & CC Submission
A	1/27/2021	CC Work Session

PROJECT NO:	C0960-011
DATE:	January 27, 2021
FILE:	C0960-011_C-DTLS.DWG
DRAWN BY:	AFS
CHECKED:	NAH
APPROVED:	PMC

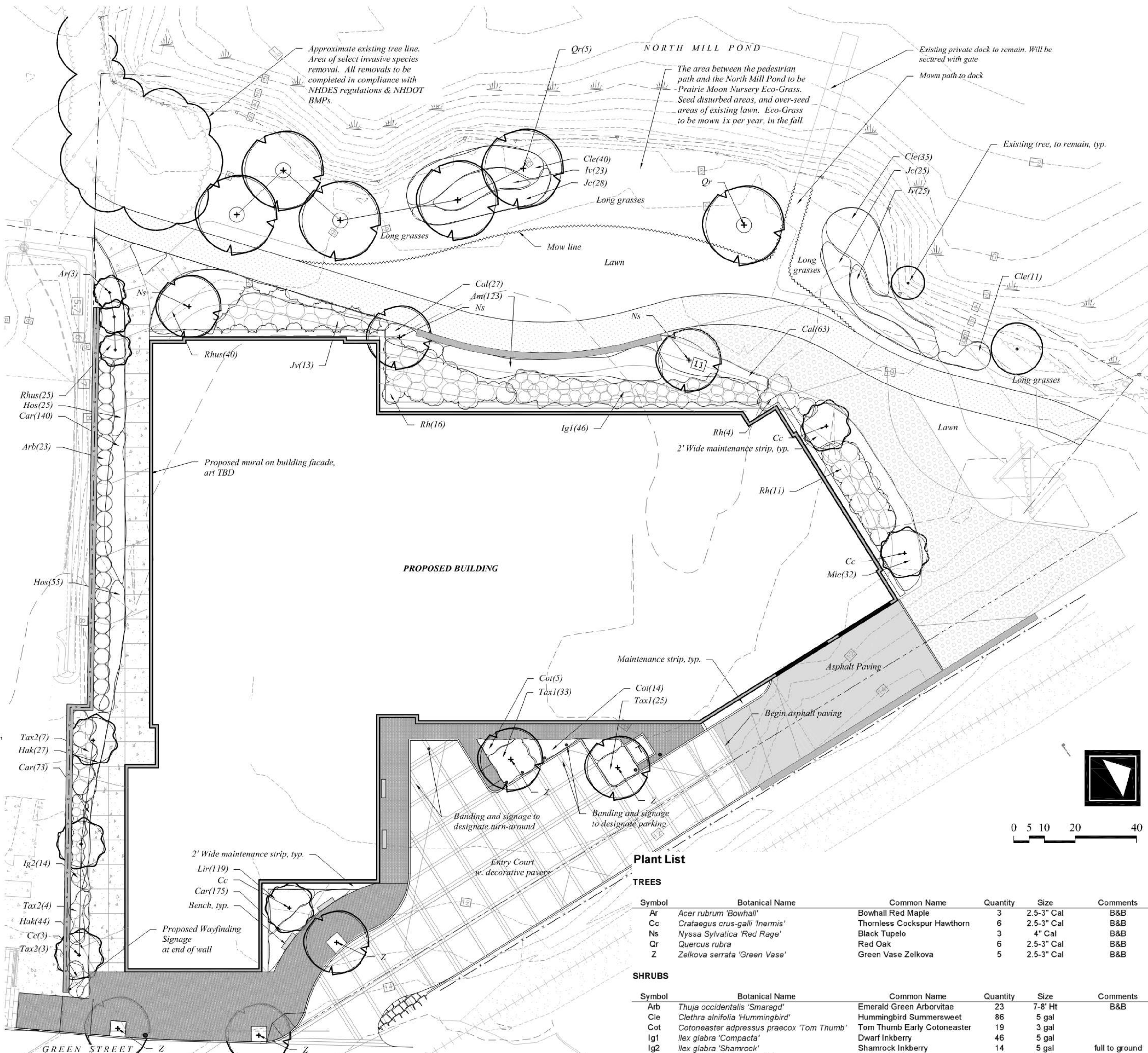
DETAILS SHEET

SCALE: AS SHOWN

C-509

Landscape Notes

- Design is based on drawings by Tighe & Bond dated 6/22/2021 and may require adjustment due to actual field conditions.
- The contractor shall follow best management practices during construction and shall take all means necessary to stabilize and protect the site from erosion.
- Erosion Control shall be in place prior to construction.
- Erosion Control to consist of Hay Bales and Erosion Control Fabric shall be staked in place between the work and Water bodies, Wetlands and/or drainage ways prior to any construction.
- The Contractor shall verify layout and grades and inform the Landscape Architect or Client's Representative of any discrepancies or changes in layout and/or grade relationships prior to construction.
- It is the contractor's responsibility to verify drawings provided are to the correct scale prior to any bid, estimate or installation. A graphic scale bar has been provided on each sheet for this purpose. If it is determined that the scale of the drawing is incorrect, the landscape architect will provide a set of drawings at the correct scale, at the request of the contractor.
- Trees to Remain within the construction zone shall be protected from damage for the duration of the project by snow fence or other suitable means of protection to be approved by Landscape Architect or Client's Representative. Snow fence shall be located at the drip line at a minimum and shall include any and all surface roots. Do not fill or mulch on the trunk flare. Do not disturb roots. In order to protect the integrity of the roots, branches, trunk and bark of the tree(s) no vehicles or construction equipment shall drive or park in or on the area within the drip line(s) of the tree(s). Do not store any refuse or construction materials or portalets within the tree protection area.
- Location, support, protection, and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor.
- The Contractor shall verify exact location and elevation of all utilities with the respective utility owners prior to construction. Call DIGSAFE at 1-888-344-7233.
- The Contractor shall procure any required permits prior to construction.
- Prior to any landscape construction activities Contractor shall test all existing loam and loam from off-site intended to be used for lawns and plant beds using a thorough sampling throughout the supply. Soil testing shall indicate levels of pH, nitrates, macro and micro nutrients, texture, soluble salts, and organic matter. Contractor shall provide Landscape Architect with test results and recommendations from the testing facility along with soil amendment plans as necessary for the proposed plantings to thrive. All loam to be used on site shall be amended as approved by the Landscape Architect prior to placement.
- Contractor shall notify landscape architect or owner's representative immediately if at any point during demolition or construction a site condition is discovered which may negatively impact the completed project. This includes, but is not limited to, unforeseen drainage problems, unknown subsurface conditions, and discrepancies between the plan and the site. If a contractor is aware of a potential issue, and does not bring it to the attention of the landscape architect or owner's representative immediately, they may be responsible for the labor and materials associated with correcting the problem.
- The Contractor shall furnish and plant all plants shown on the drawings and listed thereon. All plants shall be nursery-grown under climatic conditions similar to those in the locality of the project. Plants shall conform to the botanical names and standards of size, culture, and quality for the highest grades and standards as adopted by the American Association of Nurserymen, Inc. in the American Standard of Nursery Stock, American Standards Institute, Inc. 230 Southern Building, Washington, D.C. 20005.
- A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
- All plants shall be legibly tagged with proper botanical name.
- The Contractor shall guarantee all plants for not less than one year from time of acceptance.
- Owner or Owner's Representative will inspect plants upon delivery for conformity to Specification requirements. Such approval shall not affect the right of inspection and rejection during or after the progress of the work. The Owner reserves the right to inspect and/or select all trees at the place of growth and reserves the right to approve a representative sample of each type of shrub, herbaceous perennial, annual, and ground cover at the place of growth. Such sample will serve as a minimum standard for all plants of the same species used in this work.
- No substitutions of plants may be made without prior approval of the Owner or the Owner's Representative for any reason.
- All landscaping shall be provided with the following:
 - Outside hose attachments spaced a maximum of 150 feet apart, and
 - An underground irrigation system, or
 - A temporary irrigation system designed for a two-year period of plant establishment.
- If an automatic irrigation system is installed, all irrigation valve boxes shall be located within planting bed areas.
- The contractor is responsible for all plant material from the time their work commences until final acceptance. This includes but is not limited to maintaining all plants in good condition, the security of the plant material once delivered to the site, and watering of plants. Plants shall be appropriately watered prior to, during and after planting. It is the contractor's responsibility to provide clean water suitable for plant health from off site, should it not be available on site.
- All disturbed areas will be dressed with 6" of topsoil and planted as noted on the plans or seeded except plant beds. Plant beds shall be prepared to a depth of 12" with 75% loam and 25% compost.
- Trees, ground cover, and shrub beds shall be mulched to a depth of 2" with one-year-old, well-composted, shredded native bark not longer than 4" in length and 1/2" in width, free of woodchips and sawdust. Mulch for ferns and herbaceous perennials shall be no longer than 1" in length. Trees in lawn areas shall be mulched in a 5' diameter min. saucer. Color of mulch shall be black.
- Drip strip shall extend to 6" beyond roof overhang and shall be edged with 3/16" thick metal edger.
- In no case shall mulch touch the stem of a plant nor shall mulch ever be more than 3" thick total (including previously applied mulch) over the root ball of any plant.
- Secondary lateral branches of deciduous trees overhanging vehicular and pedestrian travel ways shall be pruned up to a height of 6' to allow clear and safe passage of vehicles and pedestrians under tree canopy. Within the sight distance triangles at vehicle intersections the canopies shall be raised to 8' min.
- Snow shall be stored a minimum of 5' from shrubs and trunks of trees.
- Landscape Architect is not responsible for the means and methods of the contractor.

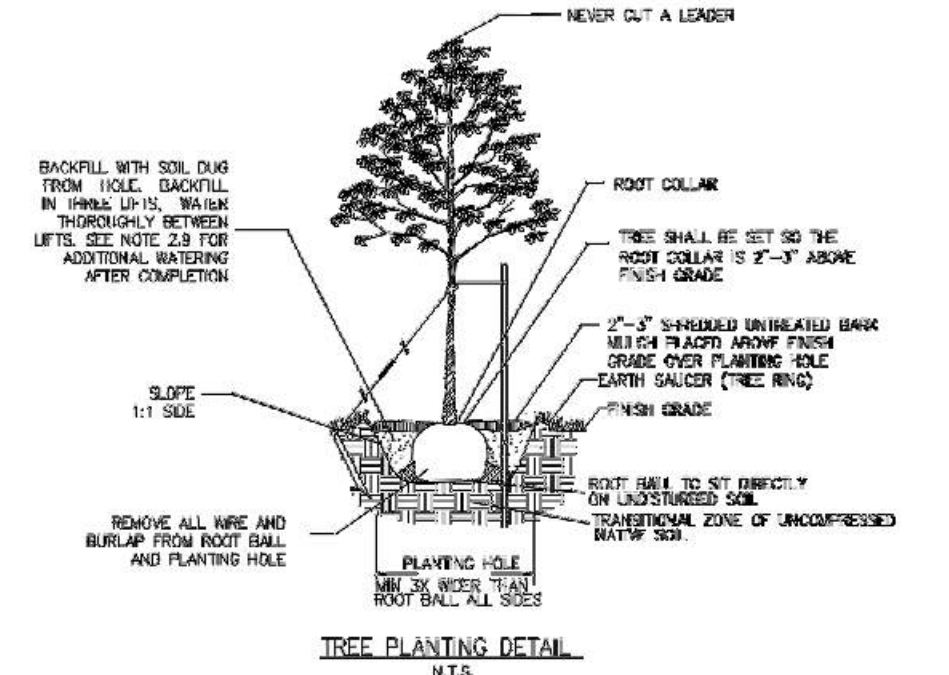


PART 1 - GENERAL

- 1.1 THE BASIS OF THE CITY OF PORTSMOUTH TREE PLANTING REQUIREMENTS IS THE ANSI A300 PART 6 STANDARD PRACTICES FOR PLANTING AND TRANSPORTING AND ALSO PART 6 LAYS OUT TERMS AND BASIC STANDARDS AS SET FORTH BY INDUSTRY BUT IT IS NOT THE INTENT OF THIS SPECIFICATION TO REPLICATE THE REQUIREMENTS OF THE CITY OF PORTSMOUTH, NH TREE PLANTING REQUIREMENTS THAT ARE IN ADDITION TO OR THAT GO BEYOND THE ANSI A300 PART 6.

PART 2 - EXECUTION

- 2.1 ALL PLANTING HOLES SHALL BE DIG BY HAND - NO MACHINES. THE ONLY EXCEPTIONS ARE NEW CONSTRUCTION WHERE NEW PLANTING BEDS, PLANTING BEDS WITH GRANITE CURBS, AND PLANTING BEDS WITH SILVA CELLS ARE BEING CREATED. IF A MACHINE IS USED TO DIG IN ANY OF THESE SITUATIONS AND PLANTING BEDS NEEDS TO BE RAISED THE MATERIAL IN THE BOTTOM OF THE PLANTING HOLE MUST BE FIRMED WITH MACHINE TO PREVENT SINKING OF THE ROOT BALL.
- 2.2 ALL WIRE AND BURIAL SHALL BE REMOVED FROM THE ROOT BALL AND PLANTING HOLE.
- 2.3 THE ROOT BALL OF THE TREE SHALL BE WORKED SO THAT THE ROOT COLLAR OF THE TREE IS VISIBLE AND NO GROUND ROOTS ARE PRESENT.
- 2.4 THE ROOT COLLAR OF THE TREE SHALL BE 2"-3" ABOVE GRADE OF PLANTING HOLE FOR PERMANENT DEPTH.
- 2.5 ALL PLANTINGS SHALL BE BACKFILLED WITH SOIL FROM THE SITE AND AMENDED NO MORE THAN 20% WITH ORGANIC COMPOST. THE ONLY EXCEPTIONS ARE NEW CONSTRUCTION WHERE ENRICHED SOIL IS BEING USED IN CONJUNCTION WITH SILVA CELLS AND WHERE NEW PLANTING BEDS ARE BEING CREATED.
- 2.6 ALL PLANTINGS SHALL BE BACKFILLED IN THREE LIFTS AND ALL LIFTS SHALL BE WATERED SO THE PLANTING WILL BE SET AND FREE OF AIR POCKETS - NO EXCEPTIONS.
- 2.7 AN 18" x 18" PERFOR SHALL BE PLACED AROUND THE PERIMETER OF THE PLANTING HOLE EXCEPT WHERE CURBED PLANTING BEDS OR ITS ARE BEING USED.
- 2.8 2"-3" OF MULCH SHALL BE PLACED OVER THE PLANTING AREA.
- 2.9 AT THE TIME OF PLANTING IS COMPLETE THE PLANTING SHALL RECEIVE ADDITIONAL WATER TO ENSURE COMPLETE HYDRATION OF THE ROOTS, BACKFILL MATERIAL AND MULCH LATER.
- 2.10 STAKES AND CUTS SHALL BE USED WHERE APPROPRIATE AND/OR NECESSARY. ONLY MATERIAL SHALL BE NON-DAMAGING TO THE TREE.
- 2.11 ALL PLANTING SIZES SHALL BE SHOWN IN QUANTITY, HEIGHT OR SPACING AND BE BASED ON MEASUREMENT. THE CITY OF PORTSMOUTH, NH RESERVES THE RIGHT TO INSPECT ANY PLANT MATERIAL OR PLANTING ACTION THAT FAILS TO MEET THE STANDARDS SET FORTH IN THE ANSI A300 PART 6 STANDARD PRACTICES FOR PLANTING AND TRANSPORTATION AND/OR THE CITY OF PORTSMOUTH, NH PLANTING REQUIREMENTS.



Plant List

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Ar	<i>Acer rubrum</i> 'Bowhall'	Bowhall Red Maple	3	2.5-3" Cal	B&B
Cc	<i>Crataegus crus-galli</i> 'Inermis'	Thornless Cockspur Hawthorn	6	2.5-3" Cal	B&B
Ns	<i>Nyssa sylvatica</i> 'Red Rage'	Black Tupelo	3	4" Cal	B&B
Qr	<i>Quercus rubra</i>	Red Oak	6	2.5-3" Cal	B&B
Z	<i>Zelkova serrata</i> 'Green Vase'	Green Vase Zelkova	5	2.5-3" Cal	B&B

SHRUBS

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Arb	<i>Thuja occidentalis</i> 'Smaragd'	Emerald Green Arborvitae	23	7-8" Ht	
Cle	<i>Clethra alnifolia</i> 'Hummingbird'	Hummingbird Summersweet	86	5 gal	
Cot	<i>Cotoneaster adpressus praecox</i> 'Tom Thumb'	Tom Thumb Early Cotoneaster	19	3 gal	
Ig1	<i>Ilex glabra</i> 'Compacta'	Dwarf Inkberry	46	5 gal	
Ig2	<i>Ilex glabra</i> 'Shamrock'	Shamrock Inkberry	14	5 gal	fill to ground
Iv	<i>Ilex verticillata</i> 'Red Sprite'	Red Sprite Winterberry	48	5 gal	
Jc	<i>Juniperus communis</i> 'Blueberry Delight'	Blueberry Delight Juniper	53	3 gal	
Jv	<i>Juniperus virginiana</i> 'Emerald Sentinel'	Emerald Sentinel Red Cedar	13	7-8" Ht	B&B
Mic	<i>Microbiota decussata</i>	Russian Cypress	32	3 gal	
Rh	<i>Rhododendron maximum</i>	Rosebay Rhododendron	31	3-4' Ht	B&B
Rhus	<i>Rhus aromatica</i> 'Grow-Low'	Grow Low Sumac	65	3 gal	
Tax1	<i>Taxus media</i> 'Ever-Low'	Ever-Low Yew	58	3 gal	
Tax2	<i>Taxus media</i> 'Greenwave'	Greenwave Yew	14	5 gal	

PERENNIALS, GROUNDCOVERS, VINES and ANNUALS

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Am	<i>Amsonia hubrichtii</i>	Blue Star Flower	123	1 gal	
Car	<i>Carex appalachica</i>	Appalachian Sedge	388	1 gal	
Cal	<i>Calamagrostis acutifolia</i> 'Karl Foerster'	Feather Reed Grass	90	1 gal	
Hak	<i>Hakonechloa macra</i>	Japanese Frost Grass	71	1 gal	
Hos	<i>Hosta 'Guacamole'</i>	Guacamole Hosta	80	1 gal	
Lir	<i>Liriope spicata</i>	Lily Turf	119	1 gal	
Lawn	<i>Pennilton Smartseed Tall Fescue Blend</i>				

City of Portsmouth Tree Planting Detail

woodburn & company
LANDSCAPE ARCHITECTURE
103 Kent Place
New Hampshire
Phone: 603.659.5949

Proposed Mixed Use Development
LANDSCAPE PLAN
53 Green Street Portsmouth, New Hampshire

Drawn By: VM
Checked By: RW
Scale: 1" = 20' - 0"
Date: March 22, 2021
Revisions: April 21, 2021
May 19, 2021
June 29, 2021

L-1
Sheet 1 of 1



Known for excellence.
Built on trust.

Eversource Resistance Substation Retirement Project

Town of Greenland and City of Portsmouth

New Hampshire Department of Environmental Services
Wetlands Permit Application



PREPARED BY:

GZA GeoEnvironmental, Inc.

5 Commerce Park North, Suite 201 | Bedford, NH 03110-6984
603-623-3600 www.gza.com

February 2024

File No. 04.0191410.47

NHDES File: _____

USACE File: _____



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STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division / Land Resources Management
[Check the Status of your Application](#)



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

APPLICANT'S NAME:

TOWN NAME:

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 type="checkbox"/> Yes <input type="checkbox"/> No
Does the property contain a PRA? If yes, provide the following information: <ul style="list-style-type: none"> • Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHFG) 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. • Protected species or habitat? <ul style="list-style-type: none"> ○ If yes, species or habitat name(s): State Endangered and State Threatened ○ NHB Project ID #: • Bog? • Floodplain wetland contiguous to a tier 3 or higher watercourse? • Designated prime wetland or duly-established 100-foot buffer? • Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone? 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
Is the property within a Designated River corridor? If yes, provide the following information: <ul style="list-style-type: none"> • Name of Local River Management Advisory Committee (LAC): • A copy of the application was sent to the LAC on Month: Day: Year: 	<input type="checkbox"/> Yes <input type="checkbox"/> No

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	--

Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	--

For stream crossing projects, provide watershed size (see [WPPT](#) or Stream Stats):

SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))
 Provide a description of the project and the purpose of the project, the need for the proposed impacts to jurisdictional areas, an outline-of the scope of work to be performed, and whether impacts are temporary or permanent.

SECTION 3 - PROJECT LOCATION
 Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.

ADDRESS:

TOWN/CITY:

TAX MAP/BLOCK/LOT/UNIT:

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

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

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:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically. KN		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))		
<input type="checkbox"/> N/A		
LAST NAME, FIRST NAME, M.I.:		
COMPANY NAME:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically. CM		
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:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		

SECTION 7 - RESOURCE-SPECIFIC CRITERIA ESTABLISHED IN Env-Wt 400, Env-Wt 500, Env-Wt 600, Env-Wt 700, OR Env-Wt 900 HAVE BEEN MET (Env-Wt 313.01(a)(3))

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):

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: December 5, 2023

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

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

JURISDICTIONAL AREA		PERM. SF	PERM. LF	PERM. ATF	TEMP. SF	TEMP. LF	TEMP. 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	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			<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			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Tidal Water			<input type="checkbox"/>			<input type="checkbox"/>
TOTAL							

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

<input type="checkbox"/> MINIMUM IMPACT FEE: Flat fee of \$400.
<input type="checkbox"/> 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).
<input type="checkbox"/> MINOR OR MAJOR IMPACT FEE: Calculate using the table below:
Permanent and temporary (non-docking): 286,502 SF × \$0.40 = \$ 114,600.80
Seasonal docking structure: SF × \$2.00 = \$
Permanent docking structure: SF × \$4.00 = \$
Projects proposing shoreline structures (including docks) add \$400 = \$
Total = \$
<i>The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$ 114,600.80</i>

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: KN	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: KN	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: KN	<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"> 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.
Initials: KN	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): 	PRINT NAME LEGIBLY:	DATE:

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:

Keep this checklist for your reference; do not submit with your application.

APPLICATION CHECKLIST

Unless specified, all items below are required. Failure to provide the required items will delay a decision on your project and may result in denial of your application. Please reference statute RSA 482-A, Fill and Dredge in Wetlands, and the [Wetland Rules Env-Wt 100-900](#).

- 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)). Make check or money order payable to "Treasurer – State of NH".
- The Required Planning actions required by Env-Wt 311.01(a)-(c) and Env-Wt 311.03(b)(3).
- [US Army Corps of Engineers \(ACE\) "Appendix B, New Hampshire General Permits \(GPs\), Required Information and Corps Secondary Impacts Checklist"](#) and its required attachments (Env-Wt 307.02). This includes the [US Fish and Wildlife Service IPAC review](#) and [Section 106 Historic/Archaeological Resource review](#).
- 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 of the 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 - [Permittee Responsible Mitigation Project 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)).
- 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.
 - b. All existing shoreline structures.
 - (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 US Geological Survey map or updated data based on LiDAR at a scale of one inch equals 2,000 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 projects in the protected tidal zone, 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 documentation of any consultation requests made to NHFG, communications and information related to the consultation, with the consultation results and recommendations from NHFG. (Env-Wt 311.06(g)). See [Wetlands Permitting: Protected Species and Habitat Fact Sheet](#).
- 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)).
- [Avoidance and Minimization Written Narrative](#) or the [Avoidance and Minimization Checklist](#), or your own avoidance and minimization narrative (Env-Wt 311.07).
- For after-the-fact applications: information required by Env-Wt 311.12.
- [Coastal Resource Worksheet](#) for coastal projects as required under Env-Wt 600.
- Prime Wetlands information required under Env-Wt 700. See [WPPT](#) for prime wetland mapping.
- For non-tidal shoreline structure projects, the length of shoreline frontage per Env-Wt 311.09(b)(1)

Required Attachments for Minor and Major Projects

- [Attachment A: Minor and Major Projects](#) (Env-Wt 313.03).
- [Functional Assessment Worksheet](#) or others means of documenting the results of actions required by Env-Wt 311.10 as part of an application preparation for a standard permit (Env-Wt 311.03(b)(3); Env-Wt 311.03(b)(10)). See [Functional Assessments for Wetlands and Other Aquatic Resources Fact Sheet](#). For shoreline structures, see shoreline structures exemption in Env-Wt 311.03(b)(10)).

Optional Materials

- [Stream Crossing Worksheet](#) which summarizes the requirements for stream crossings under Env-Wt 900.
- Request for [concurrent processing of related shoreland / wetlands permit applications](#) (Env-Wt 313.05).

APPLICANT AND OWNER INFORMATION

APPLICANT NAME

Public Service Company of New Hampshire (dba Eversource Energy)

APPLICANT CONTACT INFORMATION

Eversource Energy
Attn: Kurt Nelson, Specialist – Licensing & Permitting
13 Legends Drive
Hooksett, New Hampshire 03106

Phone: (603) 634-3256
E-mail: kurt.nelson@Eversource.com

EASEMENT INFORMATION

The proposed project crosses 17 parcels through the Town of Greenland and City of Portsmouth. Eversource owns two parcels and holds easements across the remaining 15 parcels within the proposed work area along the existing and maintained 3171 and 3111 Distribution Lines and T13 Transmission Line right-of-ways (ROW) corridor and Resistance Substation. The easements provide Eversource the right to access, construct, and maintain the structures and the ROW. A table has been provided in **Appendix A** containing easement information, including the book (volume) and page number, for the proposed work area along the 3171 and 3111 Distribution Lines and T13 Transmission Line. The easement documentation generally dates back to when the line was first constructed, and therefore property owner names have changed, and parcels may have been divided or combined (see **Appendix A – Eversource Easement Information**).

SITE INFORMATION

SITE LOCATION

The proposed project involves the removal of the existing T13 Transmission Line, installation of a new 339 Distribution Line, replacement of structures along the 3171 and 3111 Distribution Lines, and retirement of the Resistance Substation in portions of Greenland and Portsmouth, New Hampshire. The project spans approximately 5.6 miles in length, beginning on the north side of Ocean Road in Greenland and continues northeasterly direction to the Resistance Substation in Portsmouth, New Hampshire. Existing ROW where the proposed project is located varies in width (100-ft to 350-ft). **See Figure 1 - Site Locus Map** and **Figure 2 – Aerial Overview Plan**.

TAX MAP AND LOT(S)

Eversource either holds easements or owns parcels in fee along the 3171 and 3111 Distribution Lines and T13 Transmission Line where work is planned. Specifically, there are 17 parcels that cross through the work area. **See Figure 3 – Tax Maps** that highlights the Site.

ABUTTERS INFORMATION AND NOTIFICATION

According to Env-Wt 306.06(c), abutter notification shall not be required for “*Utility maintenance or repair projects within a utility right-of-way.*” Accordingly, no abutter notifications were issued for this submittal. However, **Appendix B** provides tax map and lot information for the parcels that intersect the 3171/3111 ROW and T13 Transmission Line ROW.

SITE DESCRIPTION

The Site is located primarily through suburban and industrial privately owned areas in the Town of Greenland and the City of Portsmouth within a cleared and maintained ROW. Natural cover within the ROW includes upland shrublands and wetland emergent and scrub-shrub habitats. The 3171/3111 ROW borders Interstate 95N and extends along the Exit 3 off ramp constrained by an active railroad track. The corridor then extends across Route 33 along an existing parking lot. The T13 ROW extends from Schiller Substation and borders Granite Shore Power Schiller Station to the south and east and terminates at Resistance Substation along a railroad track. There are approximately 16 wetlands within the ROWs along the project route, these include one unnamed stream and one named stream, Pickering Brook.

IDENTIFICATION OF NATURAL AND CULTURAL RESOURCES

GZA GeoEnvironmental, Inc. (GZA) has been retained by Public Service Company of New Hampshire doing business as Eversource Energy (Eversource) to provide professional services for this project that relate to natural and cultural resource identification and assessment as well as permit applications for natural resource impacts required to complete the project. GZA has conducted field evaluations and corresponded with the appropriate agencies to identify natural and cultural resources present in the vicinity of the proposed project. Eversource and GZA completed a pre-application meeting with the NHDES, USACE, and EPA on December 5, 2023.

IDENTIFICATION OF JURISDICTIONAL WETLANDS

GZA delineated and classified wetlands, photographed resources, and recorded data relevant to functions and values in November 2022 and February 2023 (see **Figure 5 – Flood Insurance Rate Map**). The wetland delineation was conducted in accordance with the United States Army Corps of Engineers (USACE) Wetlands Delineation Manual using the Routine Determinations Method and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual as required by the New Hampshire Department of Environmental Services (NHDES) Wetlands Bureau and the USACE. As directed by DES, the approximate boundaries of soils mapped as histisols and/or histic epipedon soils have been included on project plans and are referred to below as very poorly drained soils (VPD). The wetland delineation was conducted by GZA’s New Hampshire Certified Wetland Scientist (CWS) Mr. James H. Long (CWS No. 007).

GZA identified 16 wetland systems on Site and has assigned this wetland system with alphabetized identification. The identified wetland and assigned classifications are presented in the table below:

Table 1
Wetland Identification Table

Wetland Identification	Classification	Notes
GW-1	PEM1/PSS1/PFO1E,Fg/R2UB	This large wetland system is located in both Greenland and Portsmouth along the project route. Contains Pickering Brook and an unnamed stream, mapped wetland adjacent to tier 3 watercourse, prime wetland and VPD soil.
PW-1	PEM1/PSS1E,Fg	
PW-2	PEM1/PSS1E	
PW-3	PEM1/PSS1E	
PW-4	PEM1/PSS1E	
PW-5	PEM1/PSS1E	
PW-6	PEM1/PSS1E	
PW-7	PEM1/PSS1E,H	Contains potential vernal pool.
PW-8	PEM1/PSS1E	
PW-9	PEM1/PSS1Ex	
PW-10	PSS1Ex	
PW-11	PSS1/PEM1Ex	
PW-12	PEM1/PSS1E	
PW-13	PEM1/PSS1E	
PW-14	PSS1/PEM1E	

(1) Key to classifications:

System

P = palustrine wetland system

SS = scrub-shrub, 1 = broad-leaved deciduous

EM = emergent, 1= persistent

FO = forested, 1 = broad-leaved deciduous, 4 = needle-leaved evergreen

UB = unconsolidated bottom, x = excavated

R = Riverine

2 = Lower Perennial

3 = Upper Perennial

4 = Intermittent

Modifiers

E = nontidal, seasonally flooded/saturated, x=excavated

F = nontidal, semi permanently flooded, g = organic soil

H = permanently flooded

UB = Unconsolidated bottom, 1=cobble-gravel, 2=sand, b=beaver

SB = Streambed, 3=cobble-gravel, 4= sand, 5=Mud



View of ROW facing north toward Line 3171 Structure 82.



View of ROW facing south toward line T13 Structure 3.

The project area includes upland and wetland areas located in primarily suburban wetland and industrial areas. In uplands, the shrub layer contains Goldenrod (*Solidago* spp.), oriental bittersweet (*Celastrus orbiculatus*), red raspberry (*Rubus idaeus*), staghorn sumac (*Rhus hirta*), pin cherry (*Prunus pensylvanica*), and red oak (*Quercus rubra*). Vegetation in the wetlands were dominated by Common reed (*Phragmites australis*), tussock sedge (*Carex stricta*), broad leaved cattail (*Typha latifolia*), lurid sedge (*Carex lurida*), purple loosestrife (*Lythrum salicaria*), glossy buckthorn (*Frangula alnus*), gray birch (*Betula populifolia*), and red maple (*Acer rubrum*).



View of ROW facing east toward T13 Structure 6.

GZA recorded data relevant to functions and values provided by these natural resources within the ROW in November 2022 and February 2023. GZA classified wetlands in accordance with the “Classification of Wetlands and Deepwater Habitats of United States” (Federal Geographic Committee, 2013). GZA completed a wetland function-value assessment in accordance with the Highway Methodology (see **Table 2**). Below is a summary table of functions and values provided by each wetland system (see **Appendix C – Functional Value Assessment Form**).

A majority of the wetlands in the ROW provide groundwater recharge/discharge, floodflow alteration, sediment/toxicant retention, nutrient removal, production export and wildlife habitat as capable wetland functions. The project has been designed to minimize work and remove an existing distribution line circuit in the highest ranked wetland GW-1, which is a PRA wetland and provides several principal wetland functions including groundwater recharge/discharge, floodflow alteration, fish and shellfish habitat, sediment/toxicant retention, nutrient removal, production export, sediment/shoreline stabilization, wildlife habitat, recreational use, uniqueness/heritage, visual quality/aesthetics and endangered/threatened species habitat.

Table 2
Wetland Function and Value Summary Table

Wetland Identification	Classification (1)	Functions/Values (2)												
		GW	FA	FH	STR	NR	PE	SS	WH	RE	ES	UH	VQ	ESH
GW-1	PEM1/PSS1/PFO1E,Fg/R2UB	P	P	X	P	P	P	P	P	X	X	P	P	X
PW-1	PEM1/PSS1E,Fg	P	P		P	P	P		P		X	X		X
PW-2	PEM1/PSS1E	X	X		P	X	X		X					
PW-3	PEM1/PSS1E	X	X		P	X	X		X					
PW-4	PEM1/PSS1E	X	X		P	X	X		X					
PW-5	PEM1/PSS1E	X	X		P	X	X		X					
PW-6	PEM1/PSS1E	X	X		P	X	X		X					
PW-7	PEM1/PSS1E,H	X	X		P	X	X		P					
PW-8	PEM1/PSS1E	X	X		P	X	X		X					
PW-9	PEM1/PSS1Ex	X	X		P	X	X		X					
PW-10	PSS1Ex	X	X		P	X	X		X					
PW-11	PSS1/PEM1Ex	X	X		P	X	X		X					
PW-12	PEM1/PSS1E	X	X		P	X	X		X					
PW-13	PEM1/PSS1E	X	X		P	X	X		X					
PW-14	PSS1/PEM1E	X	X		P	X	X		X					

(1) Key to functions and values:

GW = groundwater recharge/discharge	WH = wildlife habitat	FA = floodflow alteration
RE = recreation	FH = fish and shellfish habitat	ES = educational/scientific value
STR = sediment/toxicant retention	UH = uniqueness/heritage	NR = nutrient removal
VQ = visual quality/aesthetics	PE = production export (nutrient)	
ESH = endangered/threatened species habitat	SS = sediment/shoreline stabilization	

Key to function/value occurrence symbols:

Blank space = function/value is not occurring in this system
 X = system is capable of performing this function/value though it is not considered principal
 P = function/value is occurring in this system and is considered a principal function/value

IDENTIFICATION OF VERNAL POOLS

GZA conducted a preliminary vernal pool evaluation while delineating wetland boundaries in 2022 and identified one potential vernal pool in Portsmouth. Vernal pool areas exist as confined basins and must exhibit vernal pool criteria outlined in the New Hampshire Code of Administrative Rules, Env-Wt 103.64, 104.15, and 104.44. It is typical that potential vernal pools are considered vernal pools for the purposes of impact avoidance and minimization for Eversource maintenance projects.

Table 3
Vernal Pool Habitat Summary

Wetland Identification	Location	Confirmed or Potential
PW-7	Southern portion of the wetland.	Potential



View of ROW fence west toward the potential vernal pool in Wetland PW-7.

IDENTIFICATION OF SURFACE WATERS

Jurisdictional limits of surface waters of the State of New Hampshire were delineated and confirmed by GZA in accordance with their definition in RSA 485-A:2 XIV, 482-A:4 II and rule Env-Wt 104.33. Surface waters include wherever freshwater flows or stands and tidal waters. This includes, but is not limited to, rivers, perennial and intermittent streams, lakes, ponds, marshes, intertidal zones, and tidal waters. In addition, jurisdiction extends to the portion of any bank or shore which borders such surface waters, and to any swamp or bog subject to periodic flooding by fresh water including the surrounding shore. In accordance with Env-Wt 102.15, the limit of jurisdiction for surface water areas is delineated at the limit of bank, where a natural bank occurs or its ordinary high-water mark, or HOTL, where a natural bank is not present. In the City of Portsmouth, surface waters include one named perennial riverine system, Pickering Brook and one unnamed perennial stream. There were no surface waters identified along the project route in the Town of Greenland.

Table 4
Surface Water Summary

Wetland Identification	Surface Water Body	Classification
GW-1	Pickering Brook	PEM1/PSS1/PFO1E,Fg/R2UB
GW-1	Unnamed Lower Perennial Stream	PEM1/PSS1/PFO1E,Fg/R2UB

IDENTIFICATION OF RARE, THREATENED, AND ENDANGERED SPECIES

The Natural Heritage Bureau (NHB) data check tool has identified four protected plant species, American reed (*Phragmites americanus*), great bur-reed (*Sparganium eurycarpum*), hairy-fruited sedge (*Carex trichocarpa*) and tufted yellow-loosestrife (*Lysimachia thysiflora*) in the vicinity of the Resistance Substation Retirement project work areas (see **Appendix D** for the NHB Report). Additionally, the NHB data check tool has identified one protected vertebrate

species, a Blanding's turtle (*Emydoidea blandingii*) in the vicinity of the Resistance Substation Retirement project work areas (see **Appendix D** for the NHB Report). A coordination memo was sent to both NHFG and NHB on January 2, 2024 and the team will continue coordination with each agency for recommendations to minimize impact.

Historically, GZA conducted a rare plant survey between proposed 3171/3111 Structures 1 and 14 on August 1, 2023 for hairy-fruited sedge and tufted yellow-loosestrife. There were no observations of either rare species within the proposed work areas within the survey areas and a plant survey report was submitted to NHB on November 3, 2023.

In the IPaC report for the project, the United States Fish and Wildlife Service identified the potential presence of the northern long-eared bat (*Myotis septentrionalis*), Roseate Tern (*Sterna dougallii dougallii*), and monarch butterfly (*Danaus plexippus*) within the vicinity of the Site. The proposed project does not involve cutting trees with greater than 3-inch diameter at breast height (dbh). No records of known roost trees were noted by the NHB near the Site.

IDENTIFICATION OF PRIORITY RESOURCE AREAS

The proposed project was screened for the presence of Priority Resource Areas (PRAs) in accordance with Env-Wt 306.05(2) (see **Figure 5 – Wetland Permit Planning Tool Screening**). Based on review of the Wetland Permit Planning Tool (WPPT), the Site contains a floodplain wetland adjacent to a tier 3 watercourse and prime wetland (GW-1). Access and work areas are required in GW-1 to complete the proposed work.

NHB and NHFG correspondence is referenced in **Appendix D** above and impacts to rare species and communities are not anticipated as a result of this project.



Overview of ROW facing south toward Wetland GW-1 during August 2023.

IDENTIFICATION OF CULTURAL AND HISTORICAL RESOURCES

Phase IA Archeological Sensitivity Assessments along portions of the T-13 Transmission Line were conducted by Independent Archaeological Consulting, LLC (IAC) during 2021. IAC was retained in the summer of 2023 to conduct a Phase IB Intensive Archeological Investigation for the 3171 and 3111 Distribution Lines and the T-13 Transmission Line for the entirety of six sensitivity areas associated with the proposed pole replacement / removal locations and access for the proposed project. The entirety of the sensitivity areas were cleared through Phase IB survey and no further archeological survey is recommended. GZA submitted a Request for Project Review (RPR) to the New Hampshire Division of Historical Resources (NHDHR) for the proposed project in December 2023 and the NHDHR concurred with

the results and recommendations to use protective measures such as matting and avoid the known sites (See **Appendix E** for the RPR form).

PROJECT DESCRIPTION

Eversource is proposing to remove the existing T-13 Transmission Line, install the new 339 Distribution Line, replace structures along the 3171 and 3111 Distribution Lines, and retire the Resistance Substation. The Site runs through portions of Greenland and Portsmouth, New Hampshire. The maintenance work requires temporary timber matting within wetlands for work pad placement and associated access to each structure (see **Figure 2 – Aerial Permitting Plans**).

The existing 3171 and 3111 Distribution Line structures are wooden monopole structures and will be replaced with steel equivalent monopole structures. The two existing distribution lines are currently on separate structures and the proposed project will consolidate the two lines by attaching them to the same steel monopole structure centered in the 3171/3111 ROW. The replacement structures are constructed with weathered steel material, so that over time the steel material will weather from an orange color to a dark brown color to blend in with the environment. New structure heights will remain similar to the existing and are typically higher where there are crossings over public roads and distribution lines, as well as ground clearance where there's a shift in topography since new structures are offset from existing locations approximately 5-10-feet. The average height of the 3171 and 3111 Distribution Line structures will remain at 45-feet across the project.

The existing T13 Transmission Line structures are wooden H-frame structures and will be removed and the new 339 Distribution Line circuit will be installed with steel monopoles. The 339 Distribution Line structures are constructed similarly to the 3171/3111 distribution structures with weathered steel material, so that over time the steel material will weather from an orange color to a dark brown color to blend in with the environment. New structure heights will be reduced due to a removal of T13 Transmission Line and installation of the 339 Distribution Line. The average height of the 339 Distribution Line structures will be 40-feet across the project.



Existing wooden Structure 81 on 3171 Distribution Line.



Existing wooden Structure 6 on 339 Distribution Line replaced in 2022.



Weathered steel color progression over time. Photo provided by Eversource.

Due to recent and ongoing correspondence with NHDES and the need for temporary wetland matting in very poorly drained soils during the active growing season, it is not anticipated the proposed project meets the minimum impact criteria Per Env-Wt 521.06 (a). Therefore, the project is anticipated to be classified as a major impact project.

PROJECT NEED

Eversource supplies electrical transmission and distribution services from within their existing, maintained ROWs. Maintenance of Eversource's electrical infrastructure is necessary to ensure the continued safety and reliability of the system. Replacement of the poles prior to significant deterioration to crossarms or the pole itself is of the utmost importance in regard to maintaining service and ensuring safety of the public. Therefore, Resistance Substation retirement along with the other components of this project, including, the removal of the existing T-13 Transmission line, the installation of the new 339 Distribution Line, and the replacement of structures along the 3171 and 3111 Distribution Lines, is beneficial to public health and safety. During an inspection of the 3171 and 3111 Distribution Lines, it was observed that the structures are old and worn and have been subjected to pole splitting, woodpecker damage and rot, and must be replaced due to the state of deterioration.

The proposed project will require temporary impact to place temporary timber matting within wetlands for replacement work areas and associated access. The existing wood structures will be replaced with a new steel counterpart and will require heavy machinery to install. Access and work pad locations in wetlands will be restored as part of required impact minimization.

PROPOSED IMPACTS

Eversource requests a permit from the NHDES Wetlands Bureau for proposed temporary wetland impacts for timber matting within the mapped wetland systems and permanent impacts for installation of the proposed replacement structures along the project area (see **Appendix G – Photo Log**). The project has been designed to minimize impacts to wetlands and surface waters to the extent practicable. Per Env-Wt 307.11 (f), swamp mats are considered temporary impact for new authorizations if they are in place no longer than one growing season and are removed immediately upon completion of work.

WETLAND IMPACTS

The proposed project includes a total of approximately 286,502 square feet (sq. ft.) of wetland impacts associated with construction of a temporary work pads, associated access, and pole replacements. Of the total square footage of wetland impact, approximately 131,567 sq. ft. is temporary wetland impact located within wetland soils classified as very poorly drained wetland soils. It is planned that work will be completed so that matting is in place during one growing season. Lastly, the proposed project requires approximately 825 sq. ft. of permanent wetland impact associated with the replacement utility poles for caisson and pole installation within wetlands, and 375 square feet is within a PRA.

Town	Temporary Wetland Matting Non VPD Soils (sq. ft.)	Temporary Wetland Matting VPD Soils (sq. ft.)	Permanent Pole Replacement Impact (sq. ft.)	Total Impacts (sq. ft.)
Greenland	0	29,533	100	29,633
Portsmouth	154,110	102,034	725	256,869
Total	154,110	131,567	825	286,502

The proposed work pads are necessary in order to safely stage equipment during pole replacement activities. Wetland impacts for access and work pad placement are temporary and will be restored upon completion of work by regarding, mulching, and seeding with native seed mix, as necessary.

Where Eversource owns the underlying parcel or where Eversource has obtained written agreements with underlying property owners, Eversource will utilize off-ROW access routes to access the ROW. Off ROW access routes typically provide safer access to utility poles than in-ROW access through steep terrain or may avoid and minimize wetland impacts in ROW.

INVASIVE SPECIES CONTROL

Timber matting will be cleaned of plant debris and soil and evaluated for cleanliness prior to being brought on Site and placed within wetlands in order to prevent the spread of invasive species. In general, matting is typically cleaned through the use of pressurized air and/or sweeping. During monitoring timber mats will be reviewed by the environmental monitor at laydown areas. Matting that is not observed to be clean at the laydown areas will be reported to the site civil contractor who will be directed to clean mats prior to transportation of mats into the ROW and placed within wetlands. Once timber mats are pulled from wetlands, when necessary (e.g. where work occurs in invasive plant locations), matting will be cleaned prior to transportation from the Site to further prevent the spread of invasive plant species. Seed mixes utilized for restoration will consist of native/naturalized plant species (see project schedule and sequence below).

Based on data collection during wetland delineation and confirmation efforts, invasive plant species including reed canary grass and glossy buckthorn were observed and documented in multiple wetland systems. The summary table below indicates which wetlands have documented records of common reed, reed canary grass, glossy buckthorn, purple loosestrife, autumn olive and/or oriental bittersweet.

Wetland Identification	Common Reed	Reed Canary Grass	Glossy Buckthorn	Purple Loosestrife	Autumn Olive	Oriental Bittersweet
GW-1	X		X	X		
PW-1	X	X	X	X		
PW-2	X		X	X	X	
PW-3			X		X	
PW-4			X			X
PW-5				X		
PW-6		X	X	X		X
PW-7	X	X	X	X	X	X
PW-8			X	X		
PW-9	X	X				
PW-10		X		X	X	X
PW-11		X		X	X	X
PW-12	X	X		X		
PW-13						
PW-14	X	X				

DREDGING AND FILLING ACTIVITY CONDITIONS

Dredging activities will occur in the footprint of proposed pole locations within wetlands where drilling is necessary to set a metal caisson at each pole butt. In accordance with Env-Wt 307.10I Erosion and sediment controls are installed concurrent with matting installation. Wetland matting is installed around proposed pole locations in wetlands. Following installation of timber matting in wetlands and construction of a level work pad, a drill rig is utilized to drill out an approximate footprint of a 4-ft diameter hole to install a metal caisson. During caisson installation, dredged material from the wetland will be temporarily held in an excavator bucket, spin-off box, or protected in a hay bale basin lined with fabric. Once a hole is set, typically over the course of a day, the material is then transported to an upland area outside of jurisdiction (e.g. nearby work pad or other construction areas), graded and then stabilized with seed and weed-free hay.

Temporary timber matting will not be in place longer than one growing season and no dredging is proposed within streams, tidal wetlands, ponds or lakes.

PROJECT SCHEDULE AND SEQUENCE

The project construction is proposed to begin May 2024, pending receipt of require regulatory approvals. The following is a description of the anticipated construction sequence for this type of routine work:

1. Conduct a pre-construction meeting with team members to review project permits and conditions.
2. Complete wetland flag refreshing in advance of construction in individual areas.
3. Complete pole spotting and equipment mobilization as work progresses.
4. Install sediment and erosion controls in proposed locations, as shown in **Figure 5**. Perimeter controls are installed in tandem with matting installation for proper installation up to stabilized access roads.
5. Build access routes and work pads utilizing timber matting in wetlands as designated by **Figure 5**.
6. Install check dams along access routes where necessary.
7. Conduct drilling activities, including drilling of approximately 4-ft diameter holes for caisson placement, approximately 7-15 ft below ground surface. Dewatering practices (e.g. dirt bags and temporary sediment basins in uplands) and proper stockpiling will be utilized during drilling. Drill spoils will be properly stabilized in non-jurisdictional areas or within portable basins located on work pads with secondary controls.
8. Conduct structure replacement activities, including installation of new structures, and removal of old structures.
9. Remove temporary timber matting, stabilize exposed soils within the ROW and restore temporarily disturbed wetland areas with appropriate wetland seed mix, as necessary.
10. Remove erosion and sedimentation controls following stabilization.
11. Complete restoration monitoring and reporting as required by project permits.

It is anticipated that final matting removal will occur in December 2024.

AVOIDANCE, MINIMIZATION, AND MITIGATION

AVOIDANCE AND MINIMIZATION OF IMPACTS

Minimization of impacts to jurisdictional wetlands and surface waters were avoided by careful design of the project (see **Appendix H – Avoidance and Minimization Checklist**). Eversource completes routine weekly and bi-weekly meetings during design to minimize and avoid impacts to wetlands, PRAs, archeological features, and protected species areas as directed by NHFG and NHB. In addition, Eversource completes multiple constructability walk downs in the field with consultants, and completes site visits with abutters as requested. This information is compiled and reviewed by Eversource Project Managers, Environmental Specialists, Engineers, Project Services (outreach staff to landowners), and wetland and archeology consultants. In addition, Eversource coordinates reviews with underlying municipalities, and incorporates feedback from Planning and Zoning staff, as well as road agents and DOT district engineers. Data collection and planning for the Resistance Substation Project has been ongoing since 2022. The attached proposal represents the combined feedback of these stakeholders, with a focus on minimizing and avoiding impact.

Although access and work pad placement within wetlands is necessary due to the required engineered span widths between structures, impacts were minimized by avoiding wetlands to the greatest extent possible while continuing to provide safe and adequate work areas for construction and meeting engineering constraints.

Where possible, wetlands were crossed at the narrowest portion of the wetland, access and work pads were avoided in VPD soils, and access was shifted to the side of the ROW with the least amount of wetland crossing impact. Where access and work pads could not be placed in the least impactful location to wetlands, this was the result of engineering requirements for span width between structures, and lack of height clearance for equipment to cross under the lowest height phase wires. The following avoidance and minimization measures were noted:

- Impacts to Wetlands PW-10, PW-11, PW-14, and PW-15 were avoided by shifting access and work pads out of wetlands.

Rather than propose permanent access and permanent fill in wetlands, Eversource proposes temporary impacts to wetlands within the existing ROW in order to access the utility structures and stage equipment on a work pad around the structures to complete the replacement work and will be restored upon completion of work. Individual structures cannot be accessed without temporary access in wetlands. In addition, two-way access is required in ROW stretches that lack frequent road crossings to ensure worker access to emergency services during construction. To minimize proposed temporary impacts, Eversource has identified potential off-ROW access points and coordinated review by underlying landowners. The only permanent impacts are the new utility poles which are similar in size and scope to the existing poles which will be removed, resulting in a similar existing condition.

Exposed wetland soils following completion of work will be seeded with New England Wetmix Seed Mix from New England Wetland Plants, Inc., or equivalent as necessary and mulched with weed free mulch and/or erosion control blankets. Best Management Practices (BMPs) will be implemented on Site to reduce/limit potential effects. Due to similar footprint of the existing structures, it is not anticipated that the project will have adverse impacts on the functions and values of the freshwater wetlands. Wetlands located on Site will continue to provide principal functions and values including groundwater recharge/discharge, floodflow alteration, fish and shellfish habitat, production export, sediment/shoreline stabilization, wildlife habitat, recreation, and uniqueness/heritage.

A table has been included below to summarize wetland impact minimization for each wetland system along the 3171 and 3111 Distribution Lines and T13 Transmission Line.

Wetland Identification	Classification	Wetland Avoidance/Minimization
GW-1	PEM1/PSS1/PFO1E,Fg/R2UB	22 existing 3171 and 3111 structures are located within wetland. Temporary matting cannot be avoided.
PW-1	PEM1/PSS1E,Fg	22 existing 3171 and 3111 structures are located within wetland. Temporary matting cannot be avoided.
PW-2	PEM1/PSS1E	No impact
PW-3	PEM1/PSS1E	No impact
PW-4	PEM1/PSS1E	No impact
PW-5	PEM1/PSS1E	No impact
PW-6	PEM1/PSS1E	Access is proposed through the narrowest portion of wetland. Pole replacements for 339 Structures 3 and 4 were engineered out of wetland areas. The 339 Structure 2 proposed location was engineered due to a steep slope. The large work pad areas are required due to pole replacements.
PW-7	PEM1/PSS1E,H	Access is proposed to buffer the potential vernal pool by 25 feet. Pole replacement at 339 Structure 8 was engineered out of the wetland along the parcel boundary and the large work pad area is required due to pole replacement work.
PW-8	PEM1/PSS1E	No impact

PW-9	PEM1/PSS1Ex	No impact
PW-10	PSS1Ex	No impact
PW-11	PSS1/PEM1Ex	No impact
PW-12	PEM1/PSS1E	Existing T13 Structure 9 is located within the wetland. Access is proposed through the narrowest portion of wetland.
PW-13	PEM1/PSS1E	Work pad area required for pole replacement and wire pulling activities.
PW-14	PSS1/PEM1E	No impact

Where Eversource has obtained written agreements with underlying property owners, Eversource will utilize off-ROW access routes to access the ROW to further avoid and minimize impacts to wetlands within the ROW. Eversource has identified several off ROW access routes and are actively pursuing agreements with underlying property owners. Utilization of these off ROW access routes is entirely dependent on securing an agreement with the property owner, and will not be utilized if an agreement is not secured. Therefore, the proposed project and this application includes in-ROW access and accounts for wetland impacts should off ROW agreements not be secured.

PROPOSED MITIGATION

As previously mentioned, the project team met with NHDES for a pre-application meeting on December 5, 2023. As discussed with DES and the USACE, the project proposes an in-lieu fee payment for wetland mitigation to compensate for permanent impacts for proposed pole replacements within a Priority Resource Area wetland. The proposed Aquatic Resource Mitigation (ARM) fund mitigation fee was based on the current, December 2023 ARM Calculator is summarized in the table below.

Town	Impact Type	Permanent Impact (sq. ft.)	Town Land Value	ARM Fee
Greenland	Pole Replacement	100	\$67,802	\$728.09
Portsmouth	Pole Replacement	275	\$67,802	\$2,002.26
			Total Fee	\$ 2,730.35

Timber matting will not be in place longer than one growing season. Wetland disturbances will be noted and described on a weekly basis, concurrent with the mat tracking. Observations will be recorded on impacts that may remain after matting is removed, such as lack of vegetation regrowth or conditions that prevent adequate regrowth. Temporarily impacted wetlands will continued to be monitored under the five year Standard Dredge & Fill permit timeframe until such time as adequate revegetation has been established and all other performance standards have been met in accordance with the wetlands rules. The project has been designed to avoid impacts to most wetland functions and values. Matting will be installed to maintain hydrologic connectivity across wetland systems and therefore the principal functions of groundwater recharge and flood storage are not anticipated to be impacted. The nutrient and sediment trapping capabilities of a wetland may be slightly reduced while matting and construction activities are occurring in individual wetlands, but it is not expected that these functions would be reduced following completion of construction. Matting to create roads and safe work areas may temporarily decrease the area of a wetland available to wetland dependent wildlife, but since the majority of the ROW will be maintained as early successional habitat, and vernal pool and in-stream impacts are avoided and minimized, there is not expected to be a significant loss of habitat once the project is complete. Vegetation disturbances from matting may temporarily reduce fruiting and flowering plants available to wildlife and insects during construction, but it is expected to be a relatively small area within the

surrounding landscape, which is mostly undeveloped and contains abundant vegetation that will remain undisturbed. Once construction is complete, the ROW will continue to be maintained as scrub-shrub early successional habitat, with no permanent loss of wetland functions and values proposed or anticipated outside of the limited footprint of pole locations. Environmental monitors will take representative photographs of temporary matting and other disturbances throughout all phases of construction. If disturbances are observed, monitors will attempt to quantify those impacts with a GPS receiver or by visually estimating the disturbance as a percentage of the overall wetland within the ROW.

This monitoring process will be performed by, or under the supervision of, a New Hampshire Certified Wetland Scientist (CWS). Subsequent NHDES reporting, the final report, and proposal of any additional compensatory mitigation will also be prepared/reviewed by a CWS.

ALTERNATIVES REVIEW

The existing distribution lines are located within established utility corridors that have been used for decades. A large portion of the 3171/3111 ROW is located in close proximity and parallel to Interstate-95 and an existing active railroad. Due to the existing location of the 3171/3111 ROW and characteristics of the surrounding area such as large expansive wetlands (i.e. GW-1) there are no alternative right of way solutions which would result in less impact to maintain the existing infrastructure. Conversely the T13 ROW is located within and surrounded by an industrial area, however the ROW is constrained by multiple electric power generation plants such that no alternative site would result in less impact. The proposed project was designed to minimize direct impacts to wetlands and surface water resources to the greatest extent possible, while maximizing safety during construction. Rather than propose permanent access and permanent fill in wetlands, Eversource proposes temporary impacts to wetlands within the existing ROW in order to access the utility structures and stage equipment on a work pad around the structures to complete the replacement work and will be restored upon completion of work. Individual structures cannot be accessed without temporary access in wetlands. In addition, two-way access is required in ROW stretches that lack frequent road crossings to ensure worker access to emergency services during construction. To minimize proposed temporary impacts, Eversource has identified potential off-ROW access points and coordinated review by underlying landowners. The only permanent impacts are the new utility poles which are similar in size and scope to the existing poles which will be removed, resulting in a similar existing condition.

FEDERAL REGULATORY REQUIREMENTS

US ARMY CORPS OF ENGINEERS

The USACE issued a State Programmatic General Permit (SPGP) that allows NHDES to review wetland permit applications and grant wetland impact permits under the Clean Water Act. However, the USACE maintains a supervisory role over State wetland permits. In the case of Major and Minor impact projects, the NHDES wetlands permit is not valid until an USACE permit has also been issued to allow for the USACE to review the project and address any concerns. The applicant may receive a request from the USACE for additional information, modifications to the project as proposed, compensatory mitigation, or an Individual Permit for the project during the course of their review. If an Individual Permit is requested, the USACE has declared that the project is ineligible for a permit under the SPGP. In order to facilitate the USACE review process, GZA has included the USACE checklist and the required 11"x17" plan sheets per the USACE requirement. See **Appendix J – USACE Checklist and 11"x17" Plans**.

The USACE Checklist has been designed to provide a brief overview of items that could be of potential concern to the USACE for any size project. The completion of the USACE Checklist for this project highlighted that the project results in primarily temporary wetland impacts. The proposed project is not anticipated to negatively impact the nearby Pickering Brook. Flood storage is not expected to be significantly impacted by the proposed replacement of the existing

utility structures (see **Figure 6 – FEMA Floodplain Maps**). 15 structures are proposed to be installed in Wetland GW-1 directly adjacent to Pickering Brook. However, to minimize impacts the proposed structures are single pole structures rather than two pole structures requiring only 25 sq. ft. of permanent impact. Additionally, 22 structures are proposed to be removed in Wetland GW-1 resulting in a net removal of 7 structures in Wetland GW-1. The proposed project requires approximately 131,567 sq. ft. of temporary wetland impact in floodplain Wetland GW-1 along Pickering Brook for placement of temporary timber matting for access and work pad placement which will be removed upon completion of construction. Therefore, it is not anticipated flood storage will be significantly impacted by the proposed project.

US FISH AND WILDLIFE SERVICE

According to the IPaC report, there are three endangered species known within the location of the project. These species consist of, Roseate Tern (*Sterna dougalli dougalli*), Northern Long-eared Bat (*Myotis septentrionalis*), and Monarch Butterfly (*Danaus plexippus*). In addition to this, there are Bald Eagles (*Haliaeetus leucocephalus*) known to be within the project area and are protected under the Bald and Golden Eagle Protection Act as well as the Migratory Bird Treaty Act. There are multiple birds of particular concern within the project area consisting of, American Oystercatcher (*Haematopus palliatus*), Black Skimmer (*Rynchops niger*), Black-billed Cuckoo (*Coccyzus erythrophthalmus*), Blue-winged Warbler (*Vermivora pinus*), Bobolink (*Dolichonyx oryzivorus*), Canada Warbler (*Cardellina canadensis*), Chimney Swift (*Chaetura pelagica*), Gill-billed Tern (*Gelochelidon nilotica*), Hudsonian Godwit (*Limosa haemastica*), Lesser yellowlegs (*Tringa flavipes*), Pectoral Sandpiper (*Calidris melanotos*), Prairie Warbler (*Dendroica discolor*), Prothonotary Warbler (*Protonotaria citrea*), Purple Sandpiper (*Calidris maritima*), Red-headed Woodpecker (*Melanerpes erythrocephalus*), Ruddy Turnstone (*Arenaria interpres morinella*), Rusty Blackbird (*Euphagus carolinus*), Saltmarsh sparrow (*Ammodramus caudacutus*), Short-billed Dowitcher (*Limnodromus griseus*), Willet (*Tringa semipalmata*), and Wood Thrush (*Hylocichla mustelina*). There are no critical habitats, refuge lands, or fish hatcheries located within the location of the proposed project.

Bird Species	Scientific Name	Habitat	Note
American Oystercatcher	<i>Haematopus palliatus</i>	Saltmarshes and coastal barrier beaches	N/A – habitat not present within the ROW
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Forested areas adjacent to large bodies of water	Not known based on NHB#23-331 and NHB23-332
Black skimmer	<i>Rynchops niger</i>	Saltmarshes and coastal sandy beaches	N/A – habitat not present within the ROW
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	Dense wooded habitats, and often found in mesic environments that have strong association with water	Breeding season between May- mid October
Blue-winged warbler	<i>Vermivore pinus</i>	Along forest-shrub edges and dense thickets	Breeding season between May - mid June
Bobolink	<i>Dolichonyx oryzivorus</i>	Hayfields, meadows	N/A – habitat not present within the ROW
Canada Warbler	<i>Cardellina canadensis</i>	Forest undergrowth, shady thickets	Breeding season between mid May-mid August
Chimney Swift	<i>Chaetura pelagica</i>	Open sky, especially over cities and towns	Breeding season through March-August
Gull-billed tern	<i>Gelochelidon nilotica</i>	Saltmarshes and coastal beaches	N/A – habitat not present within the ROW
Hudsonian Godwit	<i>Limosa haemastica</i>	Large open wetlands such as flooded fields, lakes, estuaries, and salt marshes considered important features during migration	N/A – habitat not present within the ROW
Lesser yellowlegs	<i>Tringa flavipes</i>	Flooded fields, marshes, edges of lakes, and brackish mudflats	N/A – habitat not present within the ROW

Bird Species	Scientific Name	Habitat	Note
Pectoral sandpiper	<i>Calidris melanotos</i>	Flooded fields, fresh and saltwater marsh	N/A – habitat not present within the ROW
Prairie warbler	<i>Dendroica discolor</i>	Shrubland habitat such as early-mid successional forests, scrub-oak stands, and forest edges	Breeding season between April - August
Prothonotary warbler	<i>Protonotaria citrea</i>	Forested wetlands and woodlands adjacent to lakes, ponds, and streams	Breeding season between March - July
Purple sandpiper	<i>Calidris maritima</i>	Rocky coastline and islands considered important features during migration.	N/A – habitat not present within the ROW
Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	Deciduous woodland habitats, roadsides, forest edges, and grasslands	Breeding season between April - July
Roseate tern	<i>Sterna dougalli dougalli</i>	Salt marshes, remote sandy and rocky islands	N/A – habitat not present within the ROW
Ruddy turnstone	<i>Arenaria interpres morinella</i>	Rocky coastline and islands considered important features during migration.	N/A – habitat not present within the ROW
Rusty blackbird	<i>Euphagus carolinus</i>	Northern coniferous forests adjacent to waterbodies such as bogs. During migration, the Rusty blackbird travels through forested wetlands and rivers with shallow water	Breeding season between April - May
Saltmarsh sparrow	<i>Ammodramus caudacutus</i>	Coastal salt marshes with vegetative cover like sedges and grasses	N/A – habitat not present within the ROW
Short-billed dowitcher	<i>Limnodrom griseus</i>	Flooded fields, shorelines, and muddy bays and rivers considered important features during migration.	N/A – habitat not present within the ROW
Willet	<i>Tringa semipalmata</i>	Rocky coastlines, bay shorelines, and sandy beaches	N/A – habitat not present within the ROW
Wood Thrush	<i>Hylocichla mustelina</i>	Mainly deciduous woodlands	N/A – habitat not present within the ROW

STATE REGULATORY REQUIREMENTS

The proposed project requires approval to temporarily impact wetlands using timber matting for the proposed work pads and associated access and permanently impact wetlands for utility pole installation (see **Appendix K – Utility Projects Worksheet**). Per Env-Wt 521.06 (a), the proposed project does not qualify for a minimum impact Statutory Permit by Notification due to impacts to a floodplain wetland adjacent to a tier 3 watercourse and prime wetland. This report describes the proposed project and addresses the regulatory requirements of the State to complete the proposed project. The project proposes to maintain safety and integrity of the distribution line and its infrastructure by minimizing impacts to the extent practicable, and is therefore consistent with the purposes of RSA 482-A. As such, Eversource requests that a permit be issued for the proposed project in order to maintain the safety and reliability of the associated distribution lines and there is not a less-impacting alternative.

ATTACHMENT A WORKSHEET – MINOR AND MAJOR PROJECTS

- 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 proposed project is located within an existing and maintained utility ROW, and will not expand the footprint of the existing ROW. This project is necessary to allow Eversource to continue to safely and efficiently provide electricity to the public and for maintenance of existing utility lines. The proposed project impacts are minimized by utilizing existing access routes and trails to the extent practicable and proposed use of temporary timber matting for access and work pads within wetlands. In addition and as previously mentioned, the internal project team reviewed each wetland crossing and work pad location to review where impacts to wetlands could be further avoided and minimized. Where possible, Eversource has sought off-ROW agreements to minimize impacts, and is crossing in narrow portions of wetlands where feasible based on grades and line clearances. Due to the location of the existing right-of-way and location of the proposed structures, there is no alternative that would have less adverse impact on the area and environment. The project avoids impacts in new locations by remaining in the footprint of the ROW or pre-existing line alignments to the greatest extent possible, and by avoiding permanent wetland crossings with permanent fill and culverts.
- 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 proposed project does not require any temporary wetland impact to tidal wetland systems for work pad placement or associated access. The majority of the impacts are temporary, with approximately 825 square feet of permanent freshwater impact to erect replacement structures. Based on significant previous experience working in this freshwater system, it is not anticipated that temporary wetland impacts due to timber matting will have long term impacts to the wetlands or the wetland systems ability to provide sources of nutrients to wildlife of significant value.
- 3. Describe how the project maintains hydrologic connections between adjacent wetland or stream systems.** The majority of impacts to wetlands are temporary using timber matting for work pads and associated access. Streams in Wetlands GW-1 will be bridged utilizing temporary timber matting to provide for hydrologic connectivity during construction. When necessary, matting crossings are enlarged concurrent with large storm events. Hydrologic connectivity is monitored during construction by both environmental monitors and Eversource construction representatives as part of erosion control monitoring and safety oversight.
- 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 proposed project avoids impacts to vernal pools and protected species habitat. One potential vernal pool was identified as part of data collection and avoided as part of constructability reviews.

The Natural Heritage Bureau (NHB) data check tool has identified four protected plant species, American reed (*Phragmites americanus*), great bur-reed (*Sparganium eurycarpum*), hairy-fruited sedge (*Carex trichocarpa*) and tufted yellow-loosestrife (*Lysimachia thyrsiflora*) in the vicinity of the Resistance Substation Retirement project work areas (see **Appendix D** for the NHB Report). Additionally, the NHB data check tool has identified one protected vertebrate species, a Blanding’s turtle (*Emydoidea blandingii*) in the vicinity of the Resistance Substation Retirement project work areas (see **Appendix D** for the NHB Report). A coordination memo was sent to both NHFG and NHB on January 2, 2024 and the team will continue coordination with each agency for recommendations to minimize impact.
- 5. Describe how the project avoids and minimizes impacts that eliminate, depreciate or obstruct public commerce, navigation, or recreation.** The proposed project is located within an existing and maintained utility line corridor

and not within public roadways except for entering and exiting the ROW. Therefore, it is not anticipated the proposed project will have significant impact to public commerce, navigation or recreation.

6. **Describe how the project avoids and minimizes impacts to floodplain wetlands that provide flood storage.** The majority of impact within floodplain wetlands is temporary due to placement of temporary timber matting within wetlands during construction. Along Pickering Brook, given the distance between existing structures and the brook, impacts have been minimized to the greatest extent possible to allow for a safe work environment during construction, and temporary timber matting will be removed upon completion of construction. Therefore it is not anticipated the project will have long term impacts to flood storage.
7. **Describe how the project avoids and minimizes impacts to natural riverine forested wetland systems and scrub-shrub – marsh complexes of high ecological integrity.** As previously mentioned, majority of wetland impacts for the proposed structure replacement are temporary for work pad placement and associated access. Majority of temporary wetland impacts are associated with scrub-shrub that are routinely mowed and an emergent wetland system where the existing distribution lines are located. Within GW-1 Eversource will work within the existing alignment of the 3171/3111 ROW. The least impacting alternative is to utilize the existing ROW and to utilize existing off right-of-way access as authorized by underlying property owners. Where possible, Eversource has scoped access through wetlands at the narrowest crossing or have avoided wetlands by scoping access around them to the greatest extent. For example, Eversource shifted the poles for new 339 Distribution Line Structure 9 northerly out of Wetlands PW-10 and PW-11, 339 Structure 8 easterly out of Wetland PW-7 and 339 Structures 3 and 4 northerly out of Wetland PW-6.
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 majority of impacts resulting from the proposed project are temporary for access and work pad placement. The footprint of the proposed pole replacement is minimal and is not anticipated to be detriment to adjacent drinking water supply and groundwater aquifer levels. In addition, the Site is not located within mapped GA1 or GAA groundwater resources or within a source water protection area or wellhead protection area. The project does not propose disturbance to a river and therefore there is no proposed detrimental impact to drinking water supply or groundwater aquifer levels.
9. **Describe how the project avoids and minimizes adverse impacts to stream channels and the ability of such channels to handle runoff of waters.** As previously mentioned, timber matting will be used in wetlands crossings to minimize direct wetland impacts. It is not anticipated that stream flows will be restricted as timber mats will be utilized to span streams and therefore ability of stream channels to handle runoff from waters should not be impacted.
10. **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.** Impacts have been minimized to the greatest extent through careful design and use of construction equipment with the least ground disturbance. Timber matting is utilized to minimize and prevent rutting and compaction in wetlands. Prior to the start of work, erosion and sediment controls will be installed to limit and prevent erosion and sedimentation from construction into the wetlands. In addition, exposed soils at the project Site will be stabilized using a seed mix as part of restoration.
11. **Describe how the type of construction proposed is the least intrusive upon the public trust that will ensure safe docking on the frontage.** The proposed project does not involve impacts to shoreline frontage that would impact docking.
12. **Describe how the structures have been designed to avoid and minimize impacts on ability of abutting owners to use and enjoy their properties.** The proposed project is within an existing and maintained transmission line ROW. Eversource holds easements across private properties to maintain the electrical infrastructure. Existing utility poles will be replaced in the same alignment and the ROW corridor will continue to be maintained as an existing, portions of which are routinely mowed ROW. Eversource is not proposing to expand the width of the ROW and no new lines

are proposed to be installed. It is not anticipated that the project will impact abutting property owners' ability to use and enjoy their properties.

13. **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.** The project does not propose direct impact to surface waters which would impact navigation, passage, commerce, and recreation. Therefore, the project does not propose impacts to the public's right to navigation, passage, commerce, and recreation.
14. **Describe how the structures have been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.** The proposed project has been designed to minimize direct impacts to wetlands and surface waters to the greatest extent. Temporary wetland impacts have been minimized to the extent necessary to safely replace existing structures. Existing access within the ROW has been utilized to the greatest extent, and timber matting will be utilized within wetlands to minimize and prevent rutting and compaction to wetlands and wetland vegetation.

The proposed project will utilize NHDES Best Management Practices (BMPs) manual for Utility Maintenance in and Adjacent to Wetlands and Waterbodies in New Hampshire (March 2019) and the New Hampshire Stormwater Manual as required as part of the NHDES Alteration of Terrain permit for the project. In addition, the project will prepare a Stormwater Pollution Prevention Plan as part of the EPA Construction General Permit. Eversource will retain an environmental monitor to complete erosion control inspections and advise the team on practices to maintain compliance with water quality.

Due to outage planning requirements, Eversource cannot avoid construction in the summer months, outside of the typical songbird breeding season. While Eversource recognizes that the Utility BMP manual request seasonal avoidance when possible, seasonal avoidance is not possible for this project due to the number of structures that must be replaced and the requirement by both DES and the USACE to avoid matting installation for more than one growing season. As an alternative, environmental monitors will complete sweeps for wildlife in access routes during erosion control inspections and advise the team on wildlife observations. Where possible, wildlife are avoided or safely re-located just outside of access routes (e.g. amphibians and reptiles) to limit and prevent mortality. Areas adjacent to access routes and work pads are anticipated to continue to provide habitats to a variety of species mammals and birds. During construction, the majority of the ROW continues to provide early successional foraging and nesting habitat to shrubland birds and provide browse to ungulates. Long-term management in the ROW is required to maintain early successional habitats and this is accomplished by Eversource as part of separate vegetation maintenance. In addition, after construction, wetland impacts are restored and upland work pads are reduced to approximate 30 x 60 foot pads as part of upland restoration. Therefore, the project is not anticipated to have long-term impacts on species associated with wetlands given the ROW is managed as a utility corridor.

In addition, there are no proposed pole replacements within streams and therefore no proposed long-term impacts to finfish habitat.

15. **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.** The proposed structure to be replaced is located within an existing and maintained utility ROW and does not propose removal of trees within shoreland jurisdiction. Timber matting will be utilized within wetlands to provide a stable and safe surface for construction equipment to replace the existing utility pole while buffering wetland vegetation from direct impact. The project does not propose impacts to existing banks or shorelines. Timber matting will be utilized to bridge mat over temporary stream crossings, spanning over the banks.

LOCAL REGULATORY REQUIREMENTS

TOWN OF GREENLAND

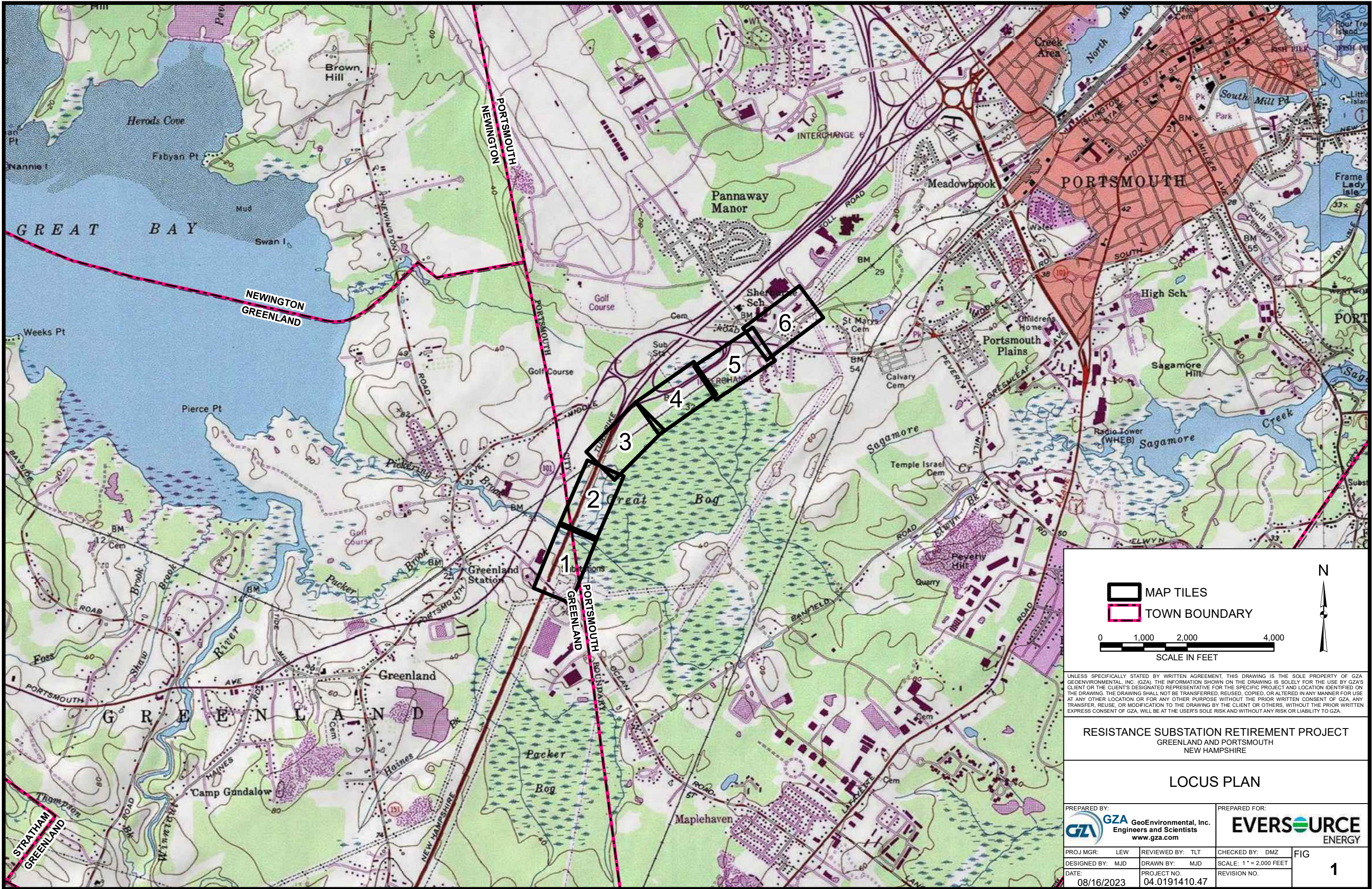
Eversource and GZA will meet with the Town of Greenland Conservation Commission on January 10, 2024. A conditional use permit application was submitted to the Town with a Planning Board meeting scheduled on February 15, 2024.



CITY OF PORTSMOUTH

Eversource and GZA will meet with the City of Portsmouth Conservation Commission on February 14, 2024. A conditional use permit application was submitted to the City with a Planning Board meeting scheduled on March 21, 2024.



FIGURE 1 – SITE LOCUS MAP



 MAP TILES
 TOWN BOUNDARY



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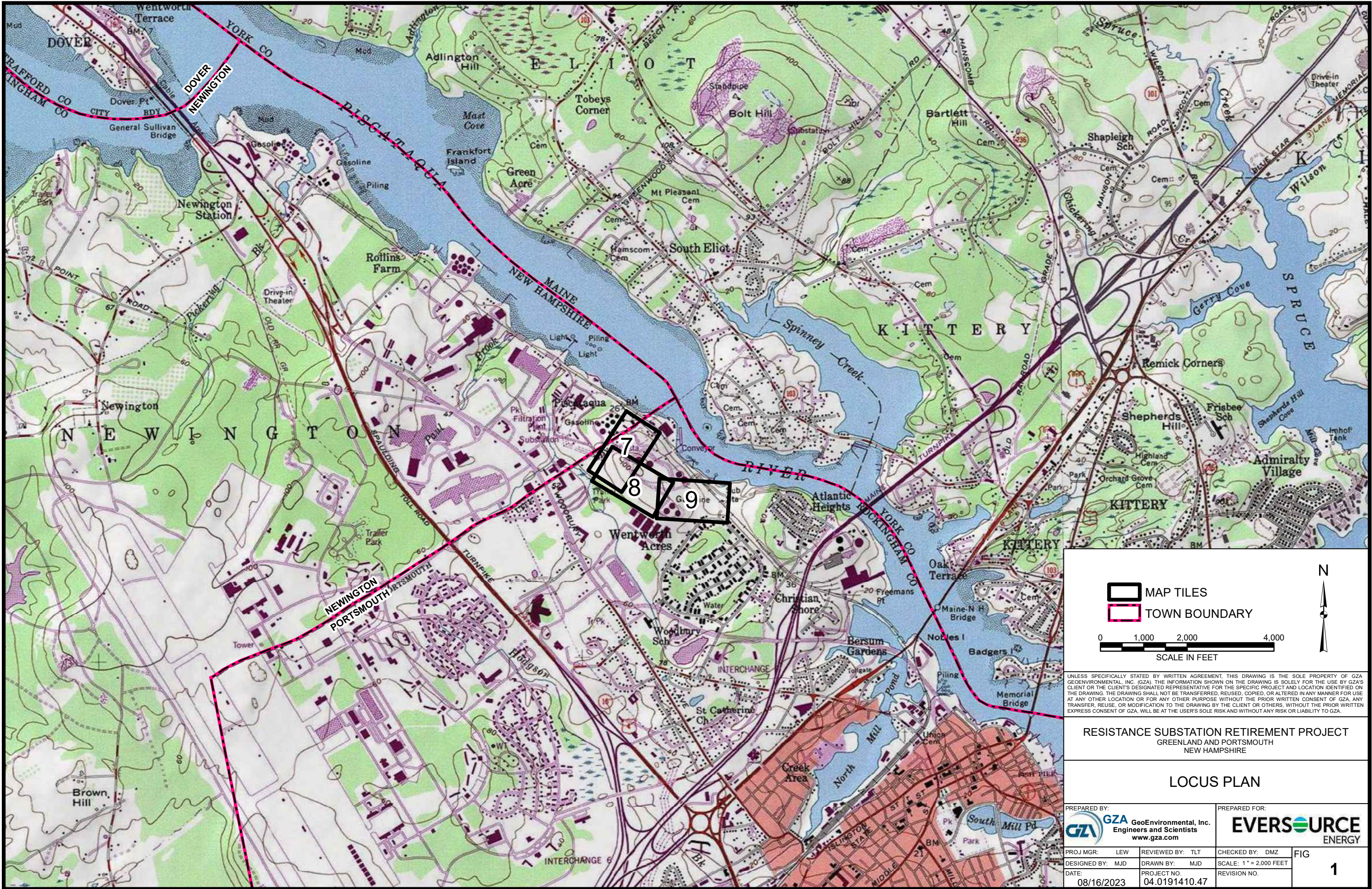
RESISTANCE SUBSTATION RETIREMENT PROJECT
GREENLAND AND PORTSMOUTH
NEW HAMPSHIRE

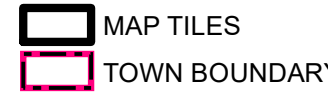
LOCUS PLAN

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 **GZA** GeoEnvironmental, Inc.
 Engineers and Scientists
 www.gza.com

PREPARED FOR:
 **EVERSOURCE**
 ENERGY

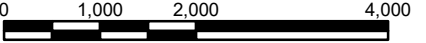
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	FIG 1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE: 1" = 2,000 FEET	
DATE: 08/16/2023	PROJECT NO: 04.0191410.47	REVISION NO.	






MAP TILES

TOWN BOUNDARY



 0 1,000 2,000 4,000

 SCALE IN FEET



 N

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RESISTANCE SUBSTATION RETIREMENT PROJECT
GREENLAND AND PORTSMOUTH
NEW HAMPSHIRE

LOCUS PLAN



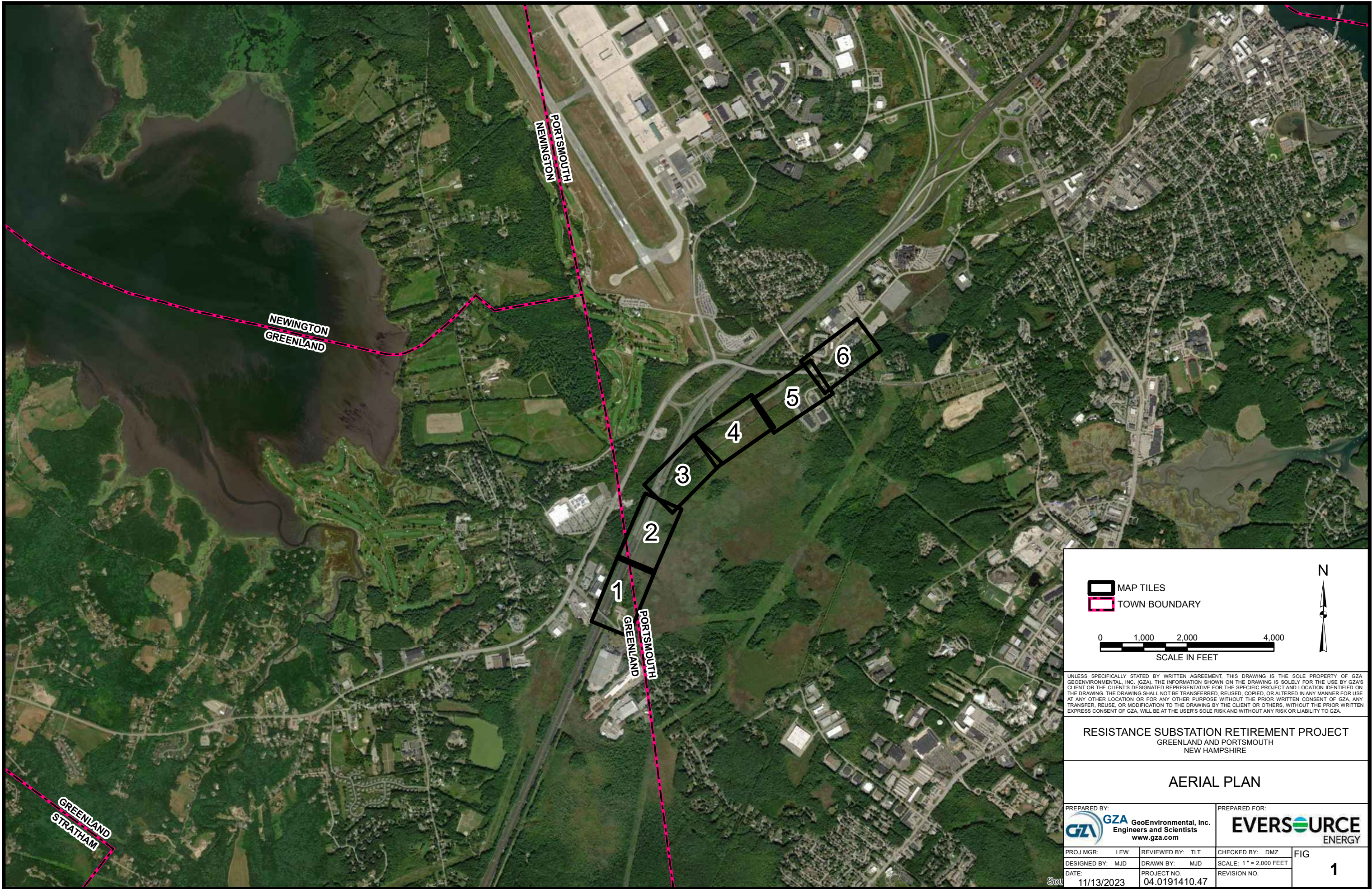
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:  EVERSOURCE ENERGY	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	FIG
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE: 1" = 2,000 FEET	1
DATE: 08/16/2023	PROJECT NO: 04.0191410.47	REVISION NO.	



FIGURE 2 – AERIAL OVERVIEW PLAN



MAP TILES

 TOWN BOUNDARY

0 1,000 2,000 4,000

 SCALE IN FEET

N

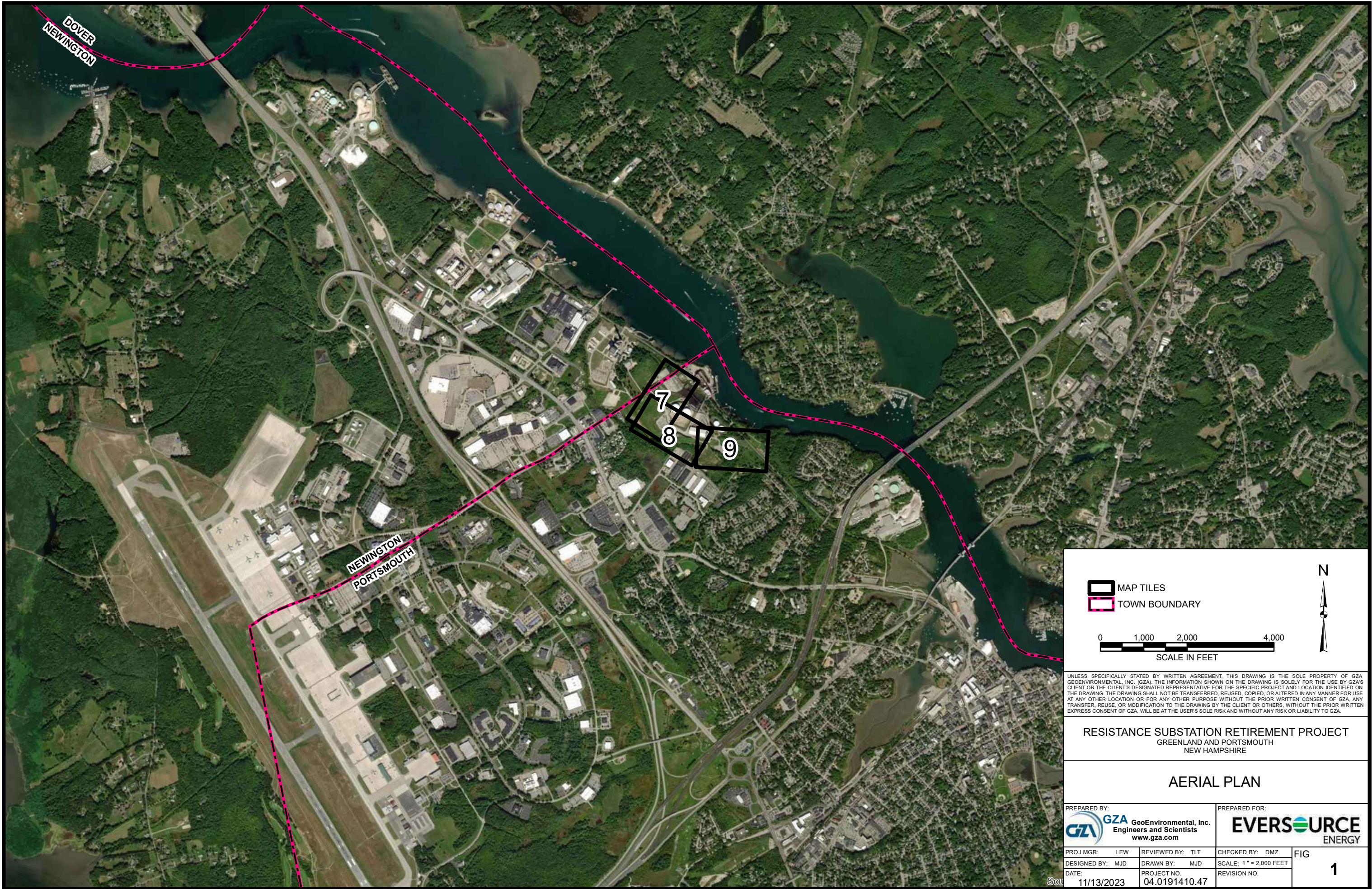
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RESISTANCE SUBSTATION RETIREMENT PROJECT
GREENLAND AND PORTSMOUTH
NEW HAMPSHIRE

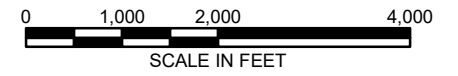
AERIAL PLAN

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PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	FIG 1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE: 1" = 2,000 FEET	
DATE: 11/13/2023	PROJECT NO: 04.0191410.47	REVISION NO.	



MAP TILES
TOWN BOUNDARY



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RESISTANCE SUBSTATION RETIREMENT PROJECT
GREENLAND AND PORTSMOUTH
NEW HAMPSHIRE

AERIAL PLAN

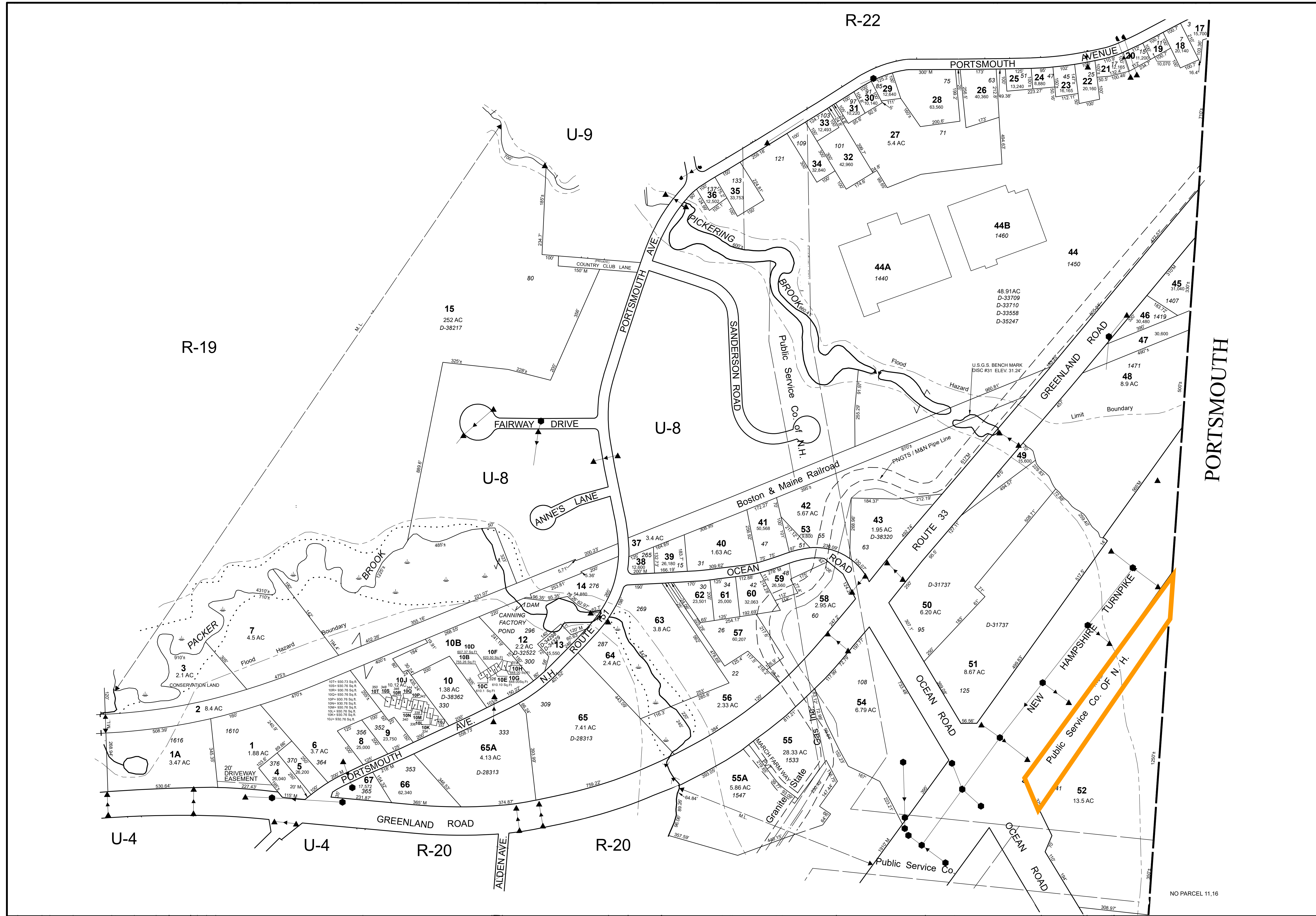
PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
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PREPARED FOR:
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ENERGY

PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	FIG 1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE: 1" = 2,000 FEET	
DATE: 11/13/2023	PROJECT NO: 04.0191410.47	REVISION NO.	



FIGURE 3 – TAX MAPS



THIS MAP IS FOR ASSESSMENT PURPOSES. IT IS NOT VALID FOR LEGAL DESCRIPTION OR CONVEYANCE.

THE HORIZONTAL DATUM IS THE NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM, NAD 83.

PREPARED IN 1976 BY PHOTOGRAMMETRIC METHODS BY JOHN E. O'DONNELL & ASSOCIATES, AUBURN, MAINE

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Precision Mapping, Geospatial Solutions

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LEGEND

ADJACENT SHEET NO. ----- 12

COMMON OWNERSHIP ----- OR

DEVELOPMENT LOT NO. ----- (2)

SCALED DIMENSION ----- ±

CATCH BASIN ----- ●

DRAIN PIPE ----- —▲—

STREET NO. ----- 1

SCALE: 1" = 200'

FEET
200 0 200 400 600

METERS
25 0 50 100 150

REVISED TO: APRIL 1, 2018

PROPERTY MAPS

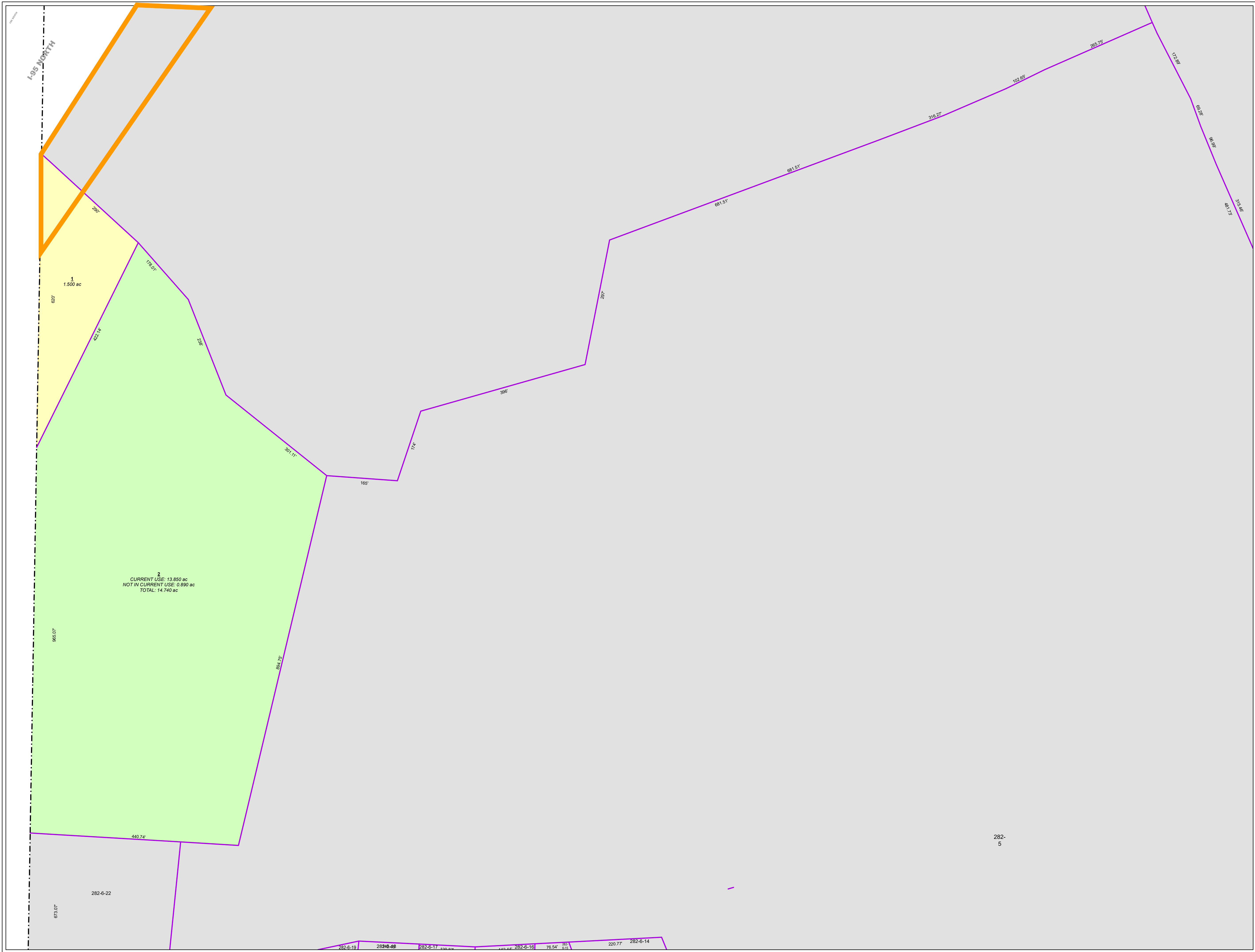
GREENLAND

NEW HAMPSHIRE

INDEX DIAGRAM

MAP NO.

R-21

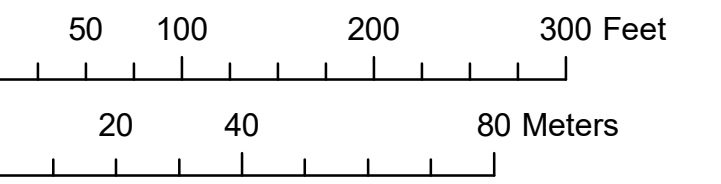


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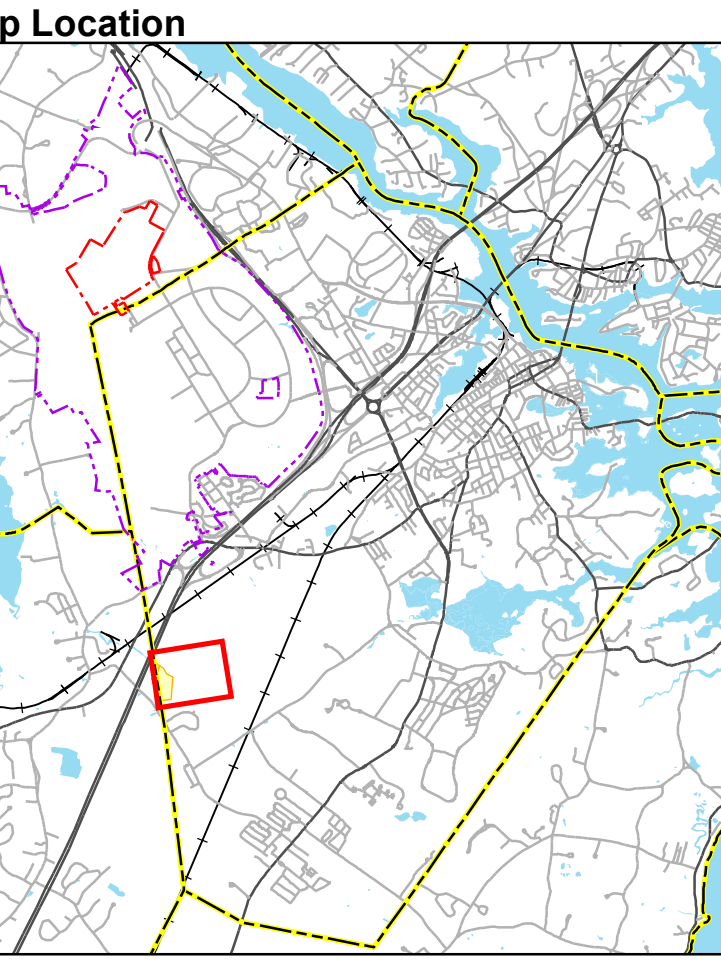
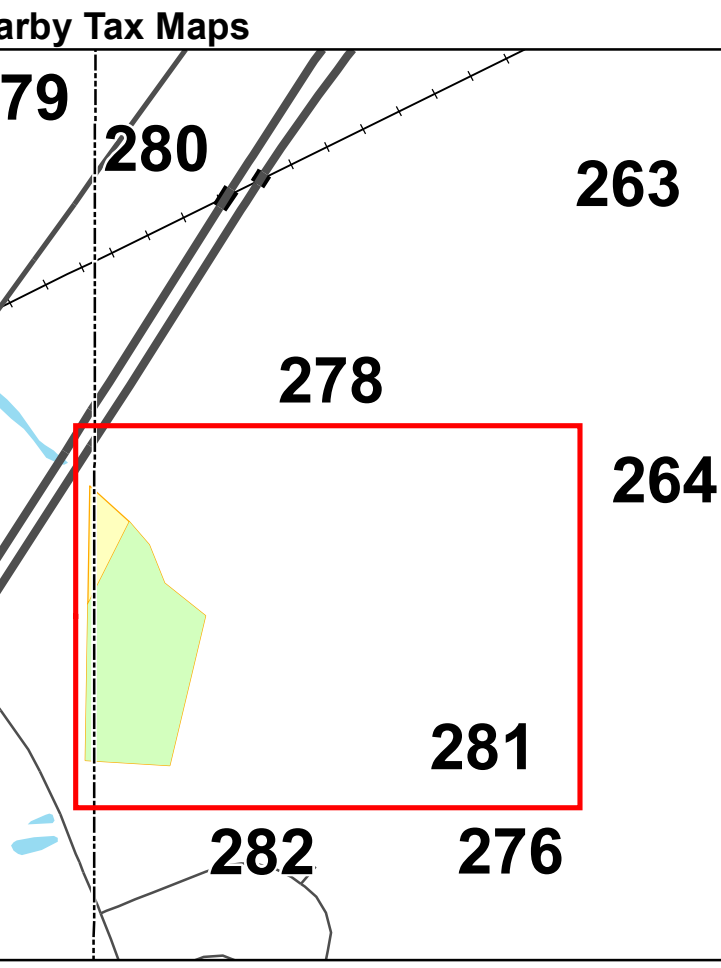
- 7-5A** Lot or lot-unit number
- 2.56 ac Parcel area in acres (ac) or square feet (sf)
- 75 Address number
- 233-137 Parcel number from a neighboring map
- 68 Parcel line dimension
- SIMS AVE Street name

- Parcel/Parcel boundary
- Parcel/ROW boundary
- Water boundary
- Structure (1994 data)

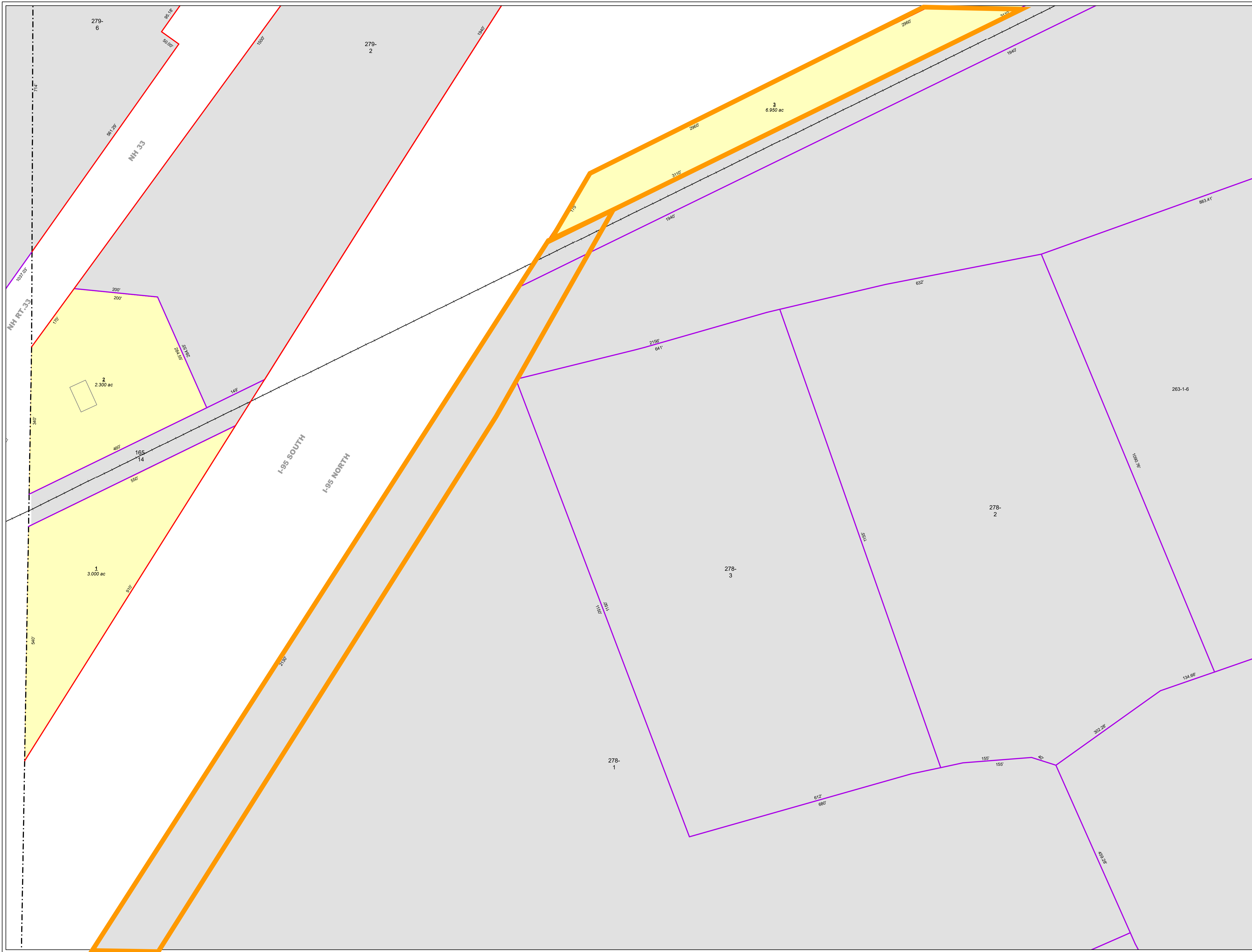
- Parcel covered by this map
- Parcel from a neighboring map (see other map for current status)



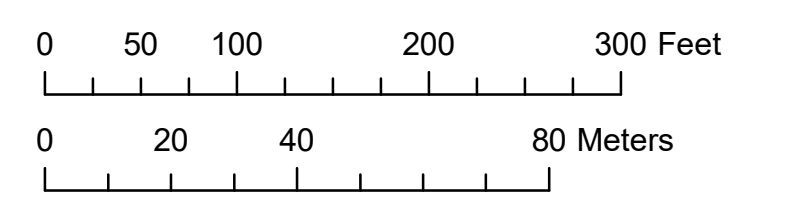
This map is for assessment purposes only. It is not intended for legal description or conveyance. Parcels are mapped as of April 1. Building footprints are 2006 data and may not represent current structures. Streets appearing on this map may be paper (unbuilt) streets. Lot numbers take precedence over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



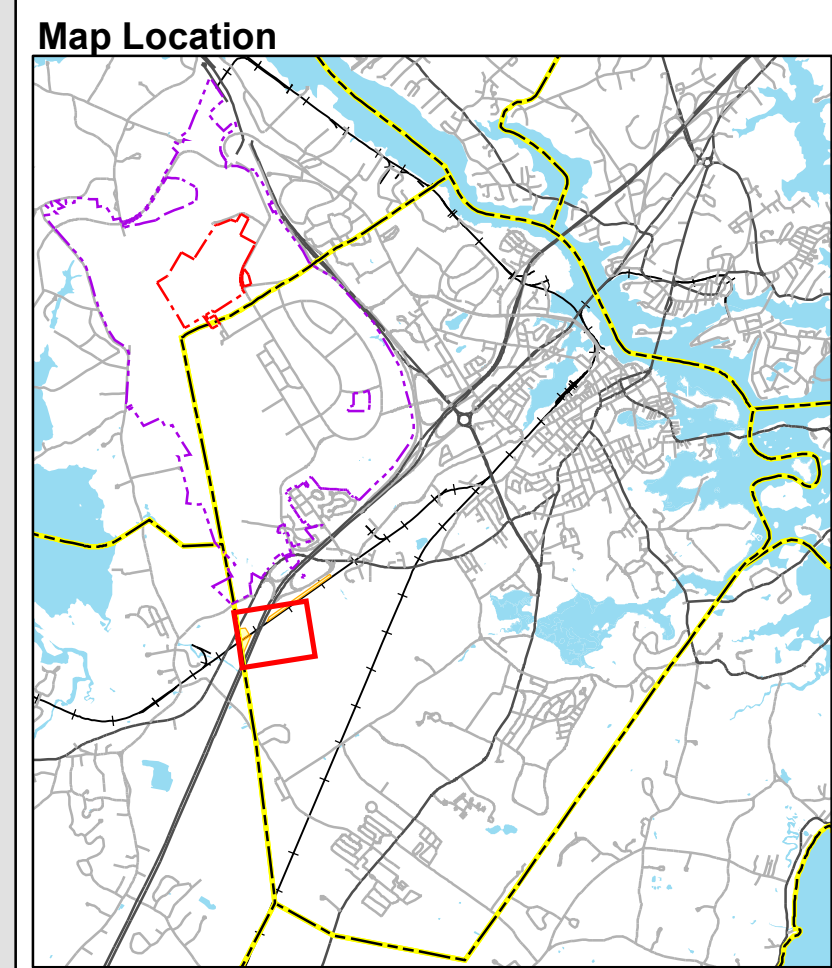
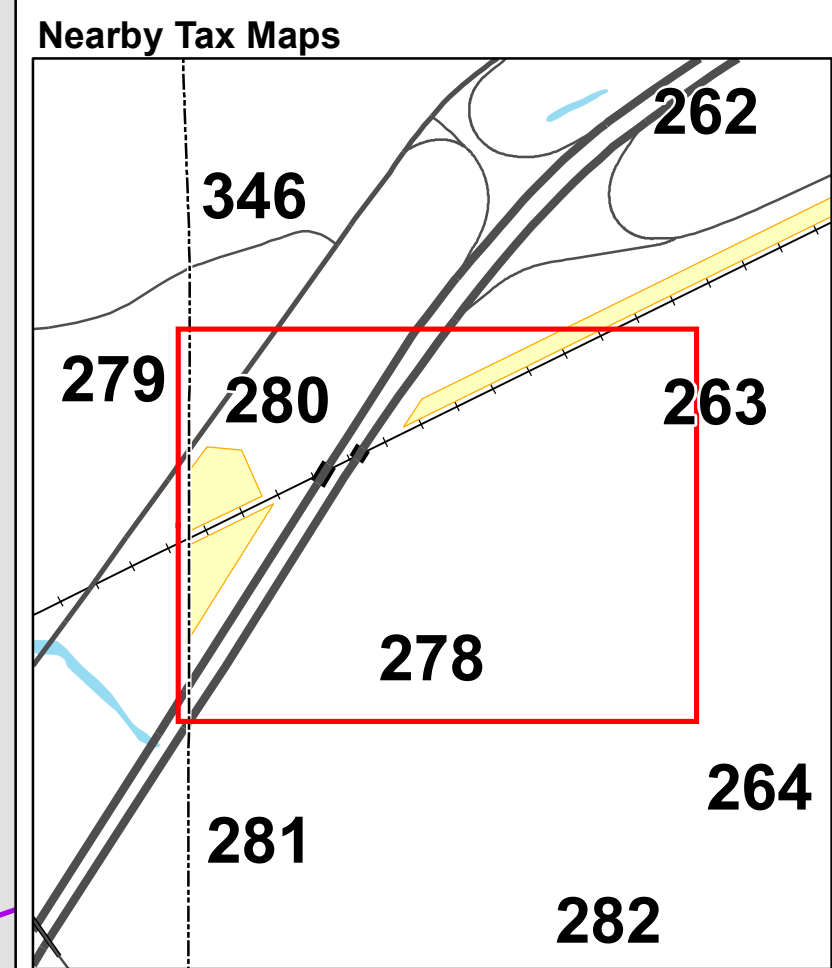
Portsmouth, New Hampshire
 2022
Tax Map 281



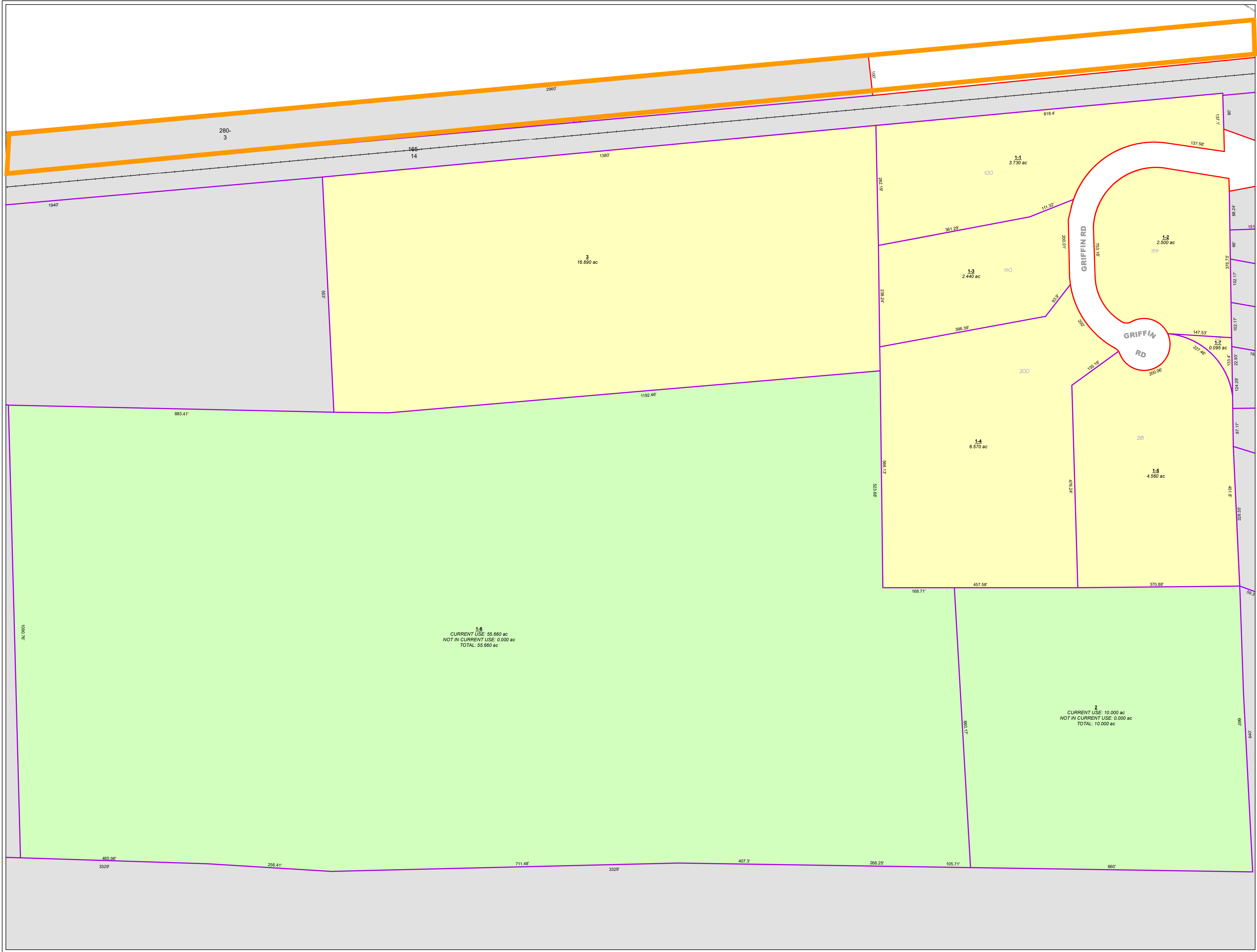
- Partial Legend**
 See the cover sheet for the complete legend.
- 7-5A** Lot or lot-unit number
 - 2.56 ac Parcel area in acres (ac) or square feet (sf)
 - 75 Address number
 - 233-137 Parcel number from a neighboring map
 - 68' Parcel line dimension
 - SIMS AVE** Street name
 - Parcel/Parcel boundary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



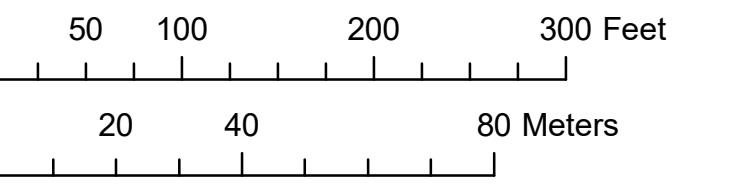
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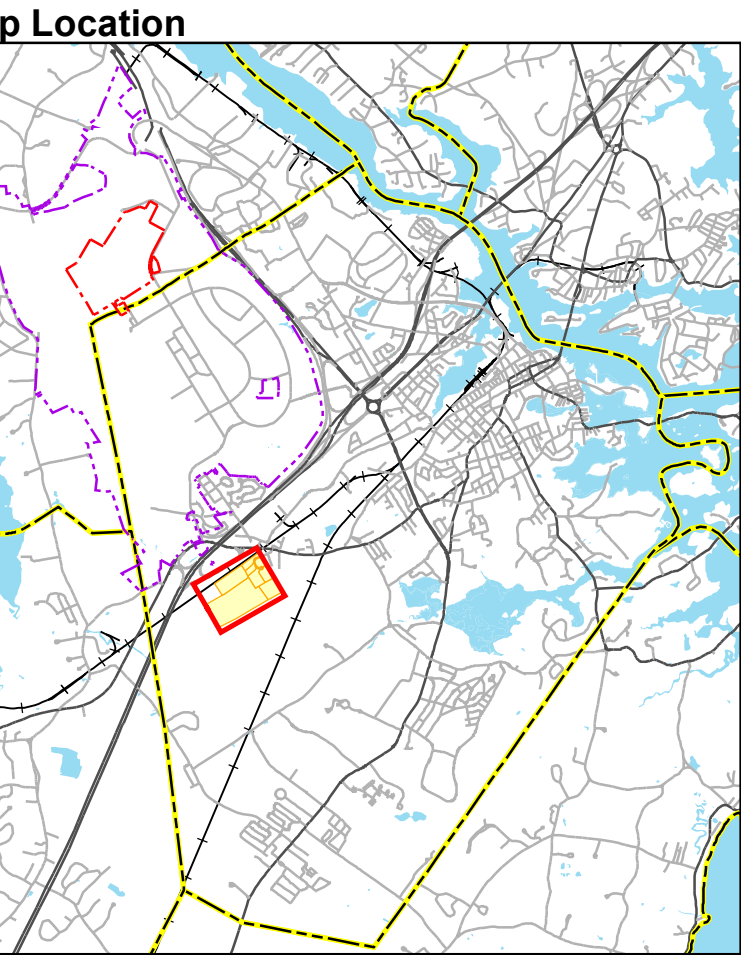
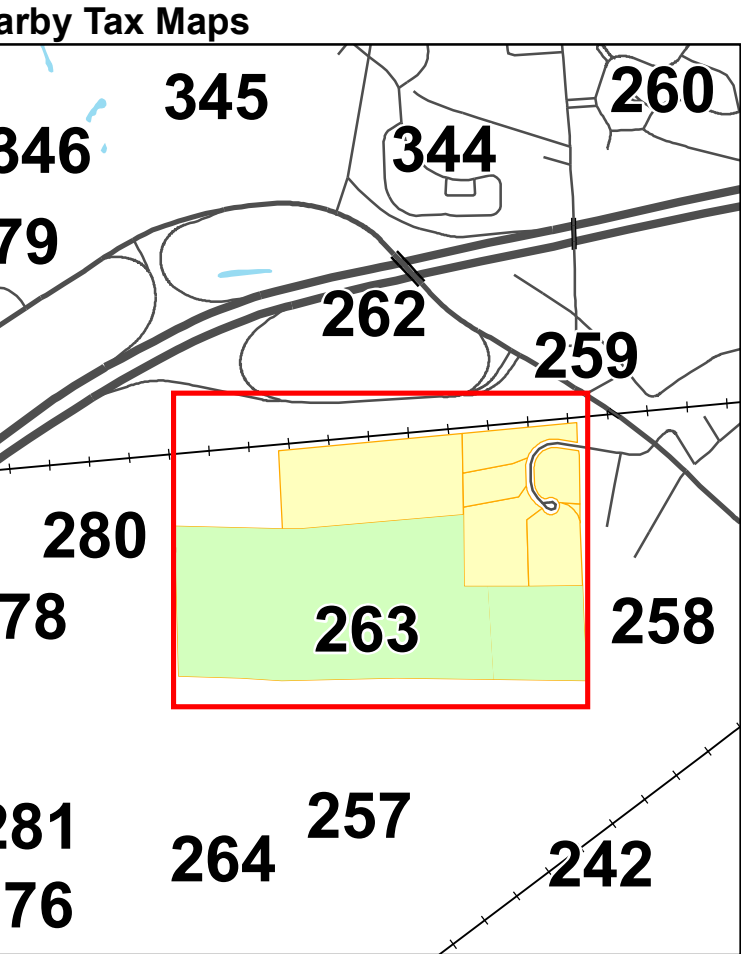
Portsmouth, New Hampshire
 2022
Tax Map 280



- 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)
 - 25 Address number
 - 233-137 Parcel number from a neighboring map
 - 68' 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)



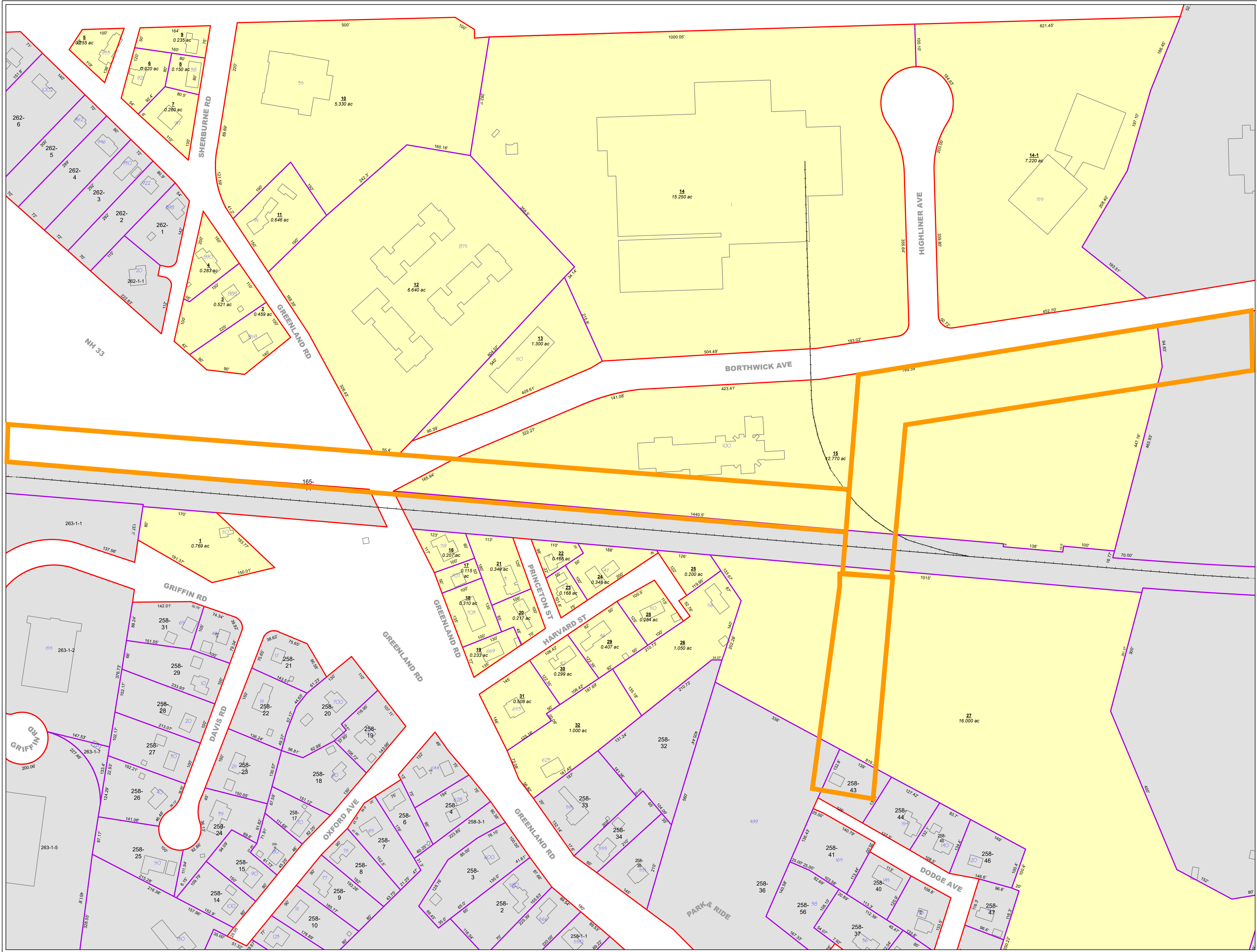
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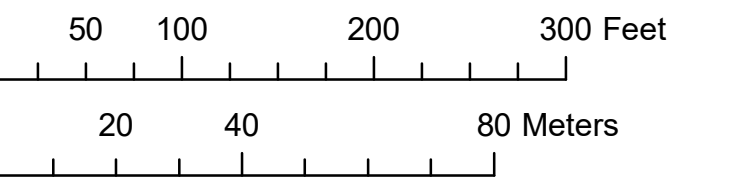
Portsmouth, New Hampshire
 2022
Tax Map 263

1.5
 CURRENT USE: 55.660 ac
 NOT IN CURRENT USE: 0.000 ac
 TOTAL: 55.660 ac

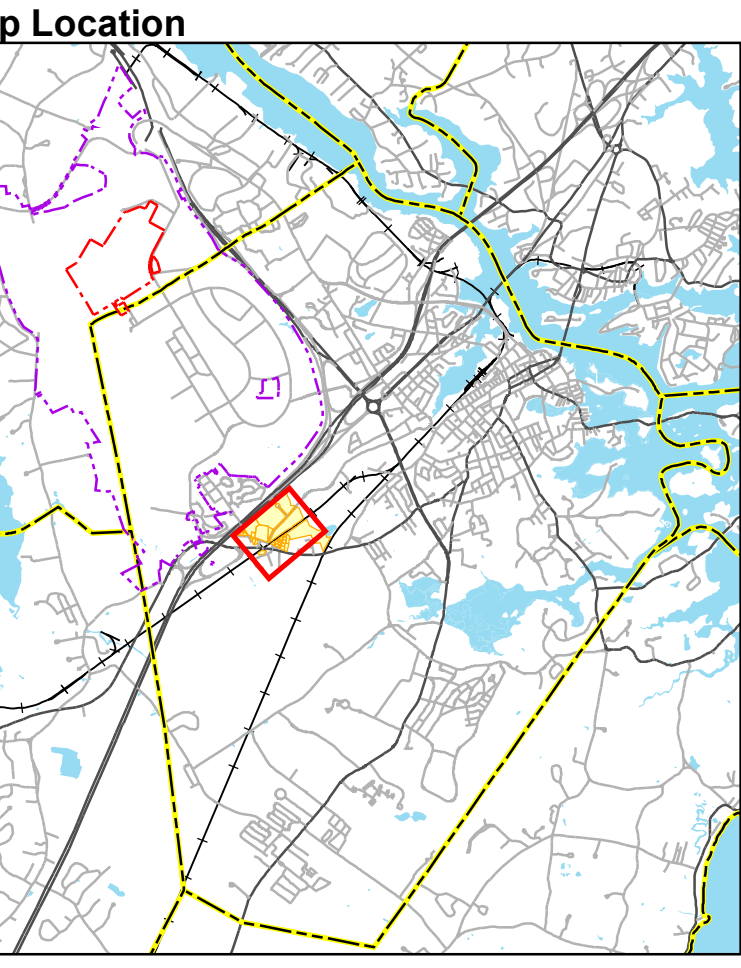
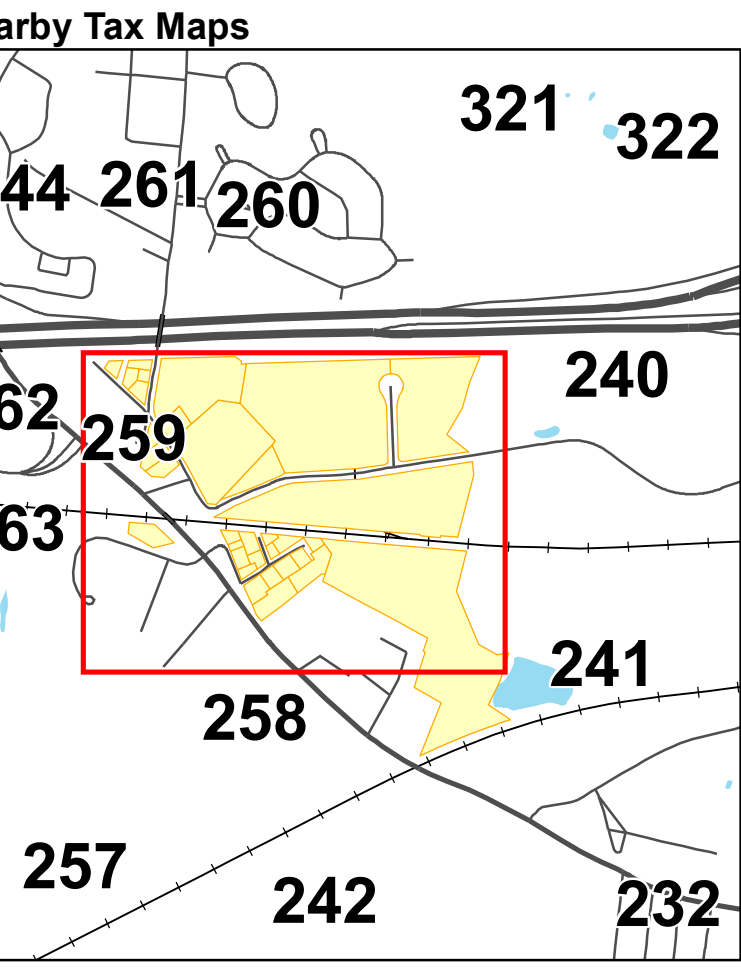
2
 CURRENT USE: 10.000 ac
 NOT IN CURRENT USE: 0.000 ac
 TOTAL: 10.000 ac



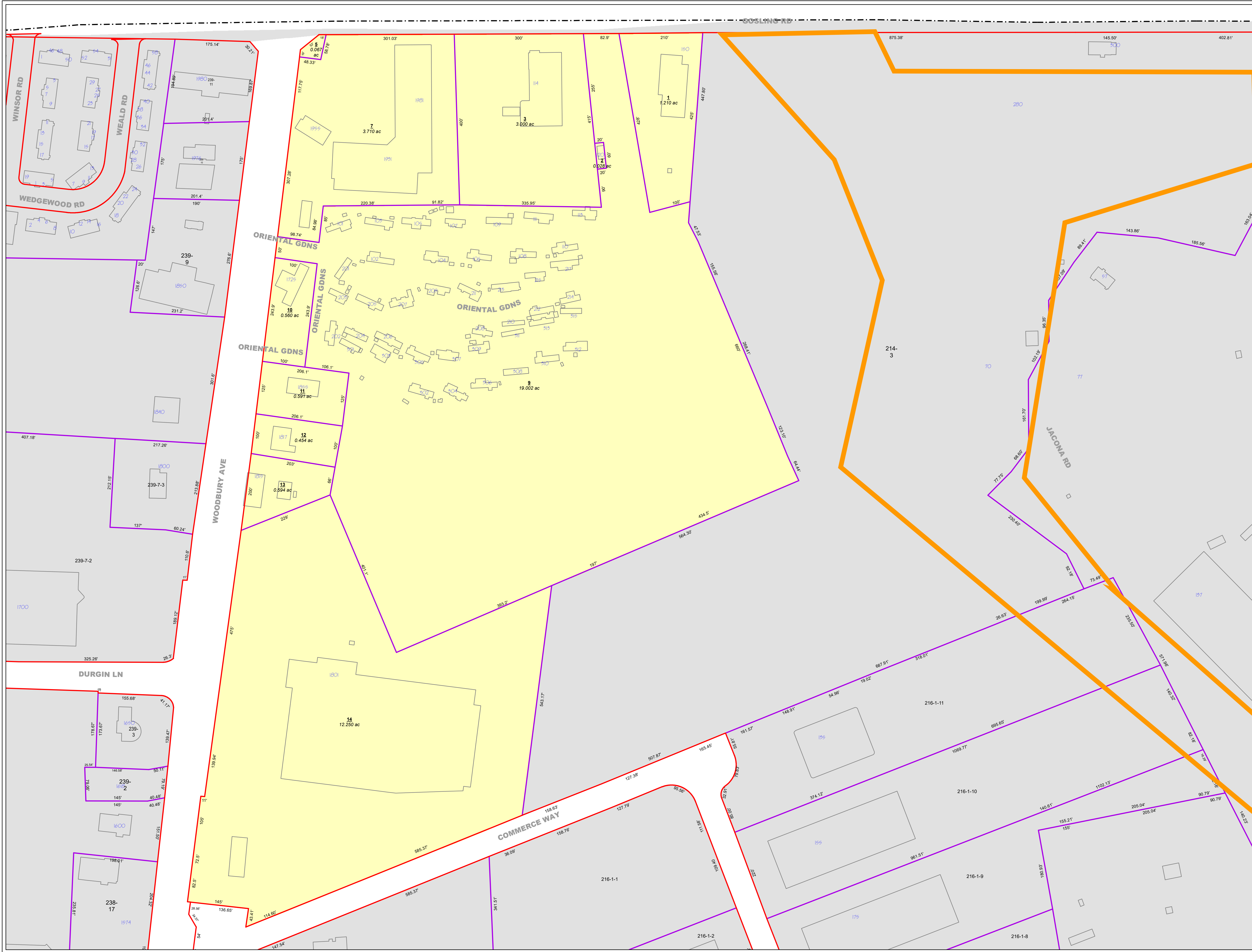
- Partial Legend**
See the cover sheet for the complete legend.
- 7-5A** Lot or lot-unit number
 - 2.56 ac Parcel area in acres (ac) or square feet (sf)
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Portsmouth, New Hampshire
2022
Tax Map 259

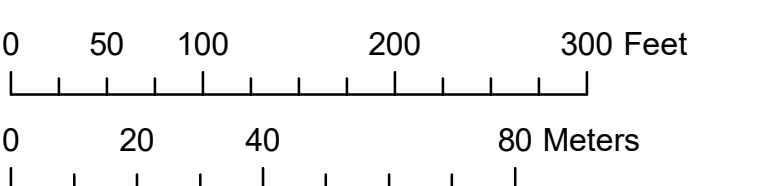


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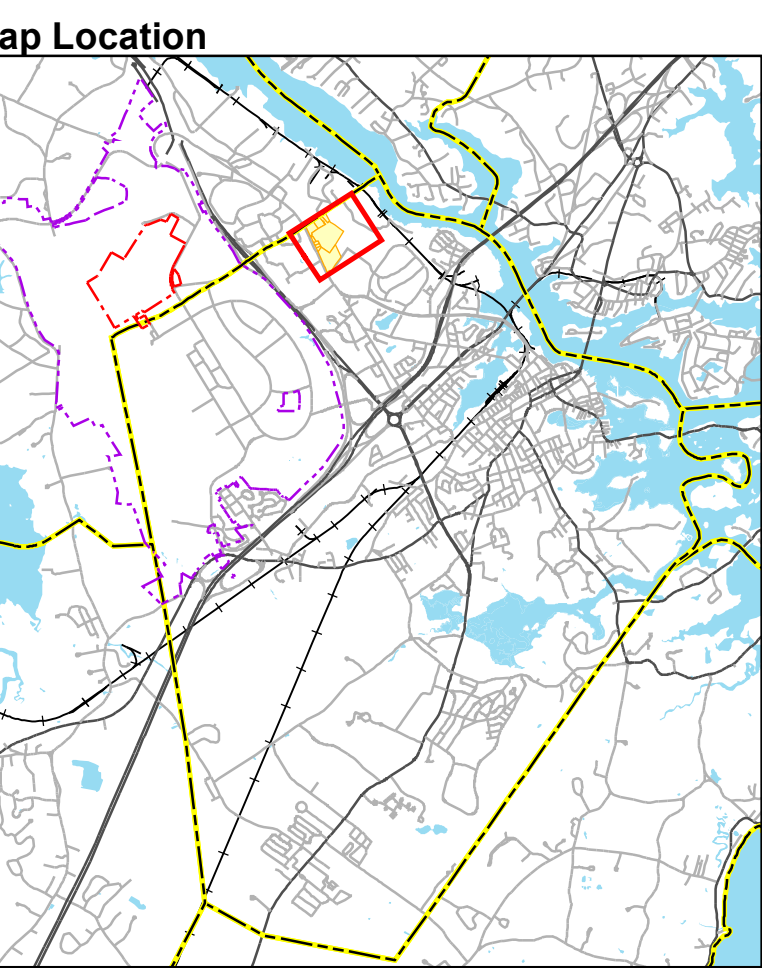
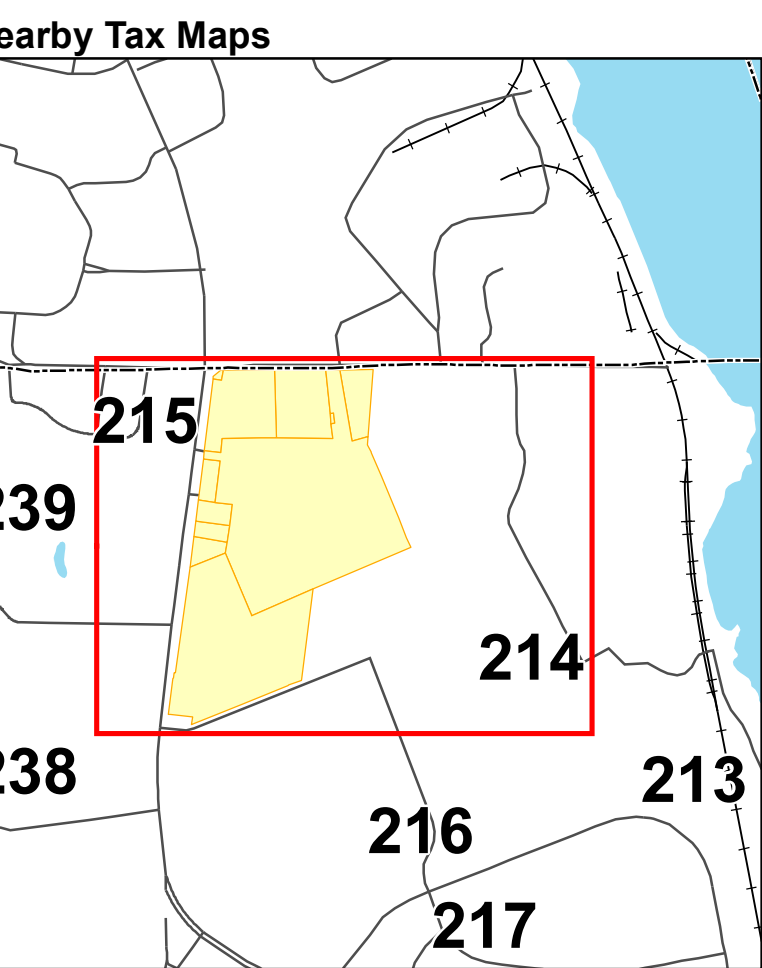
7-5A Lot or lot-unit number
 2.56 ac Parcel area in acres (ac) or square feet (sf)
 25 Address number
 233-137 Parcel number from a neighboring map
 68' Parcel line dimension
SIMS AVE Street name

Parcel/Parcel boundary
 Parcel/ROW boundary
 Water boundary
 Structure (1994 data)

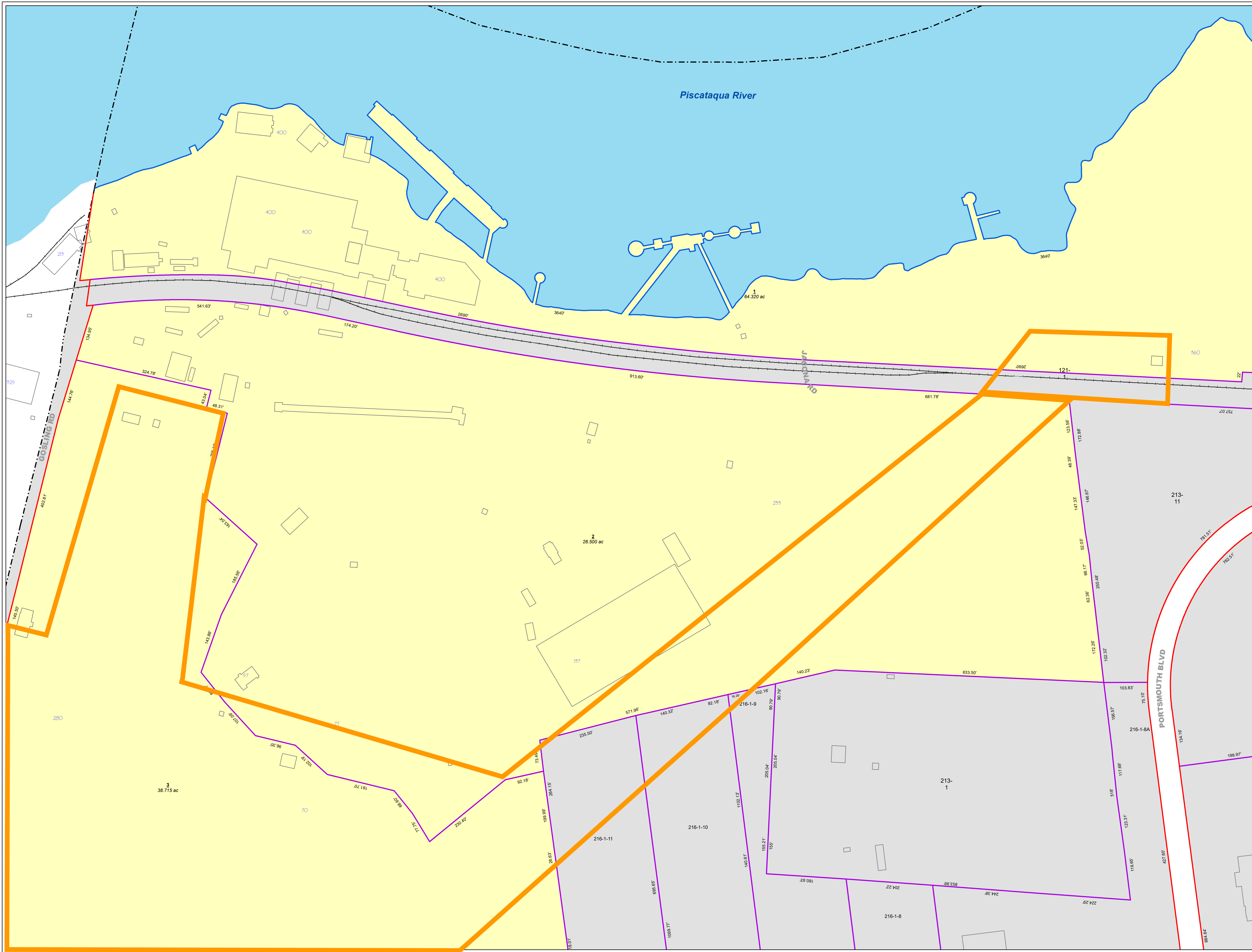
Parcel covered by this map
 Parcel from a neighboring map (see other map for current status)



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Portsmouth, New Hampshire
 2022
Tax Map 215

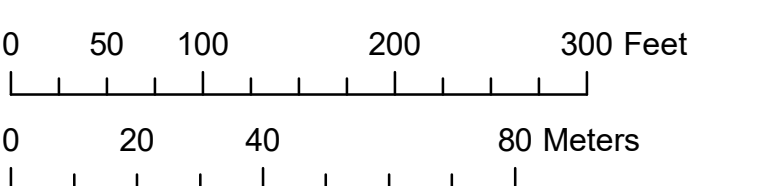


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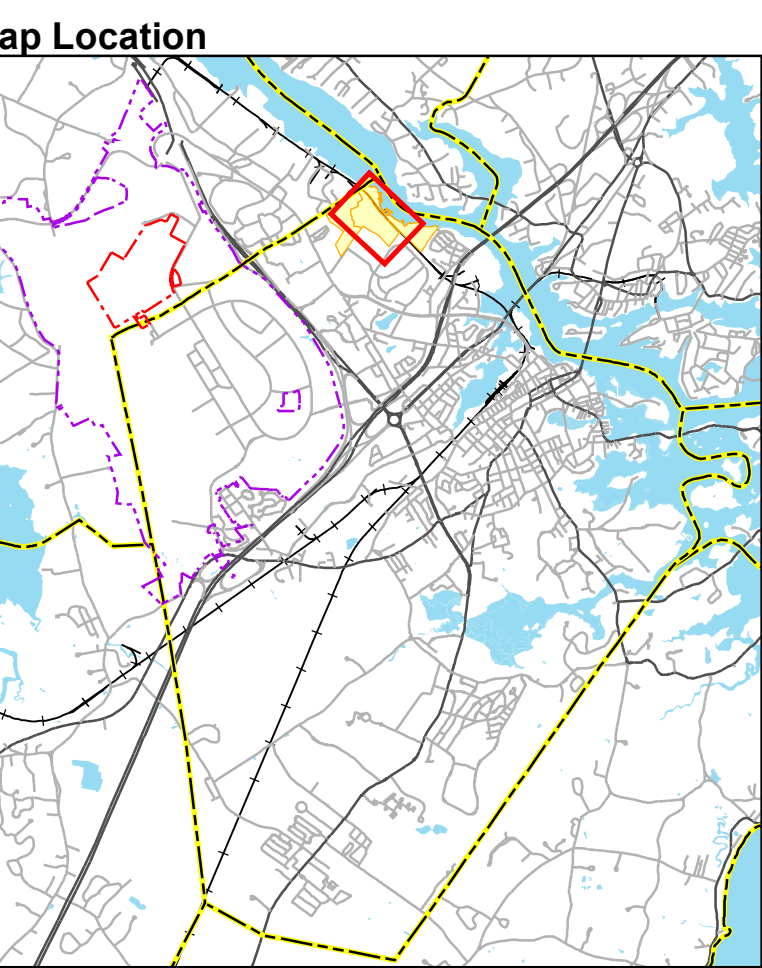
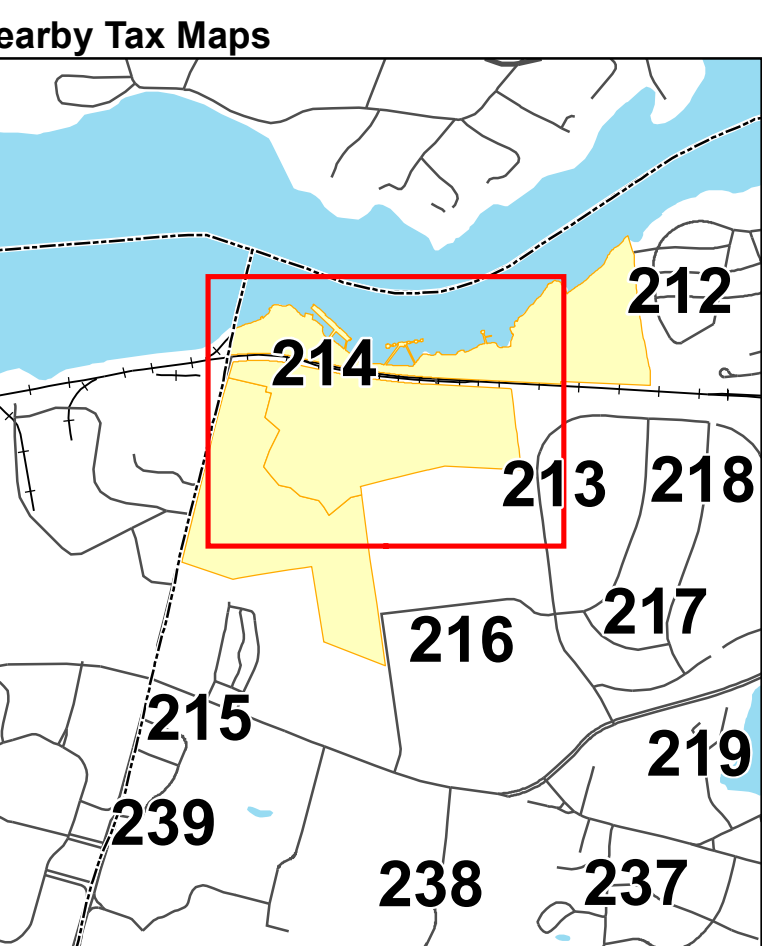
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- 2.56 ac Parcel area in acres (ac) or square feet (sf)
- 25 Address number
- 233-137 Parcel number from a neighboring map
- 68' Parcel line dimension
- SIMS AVE Street name

- 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)



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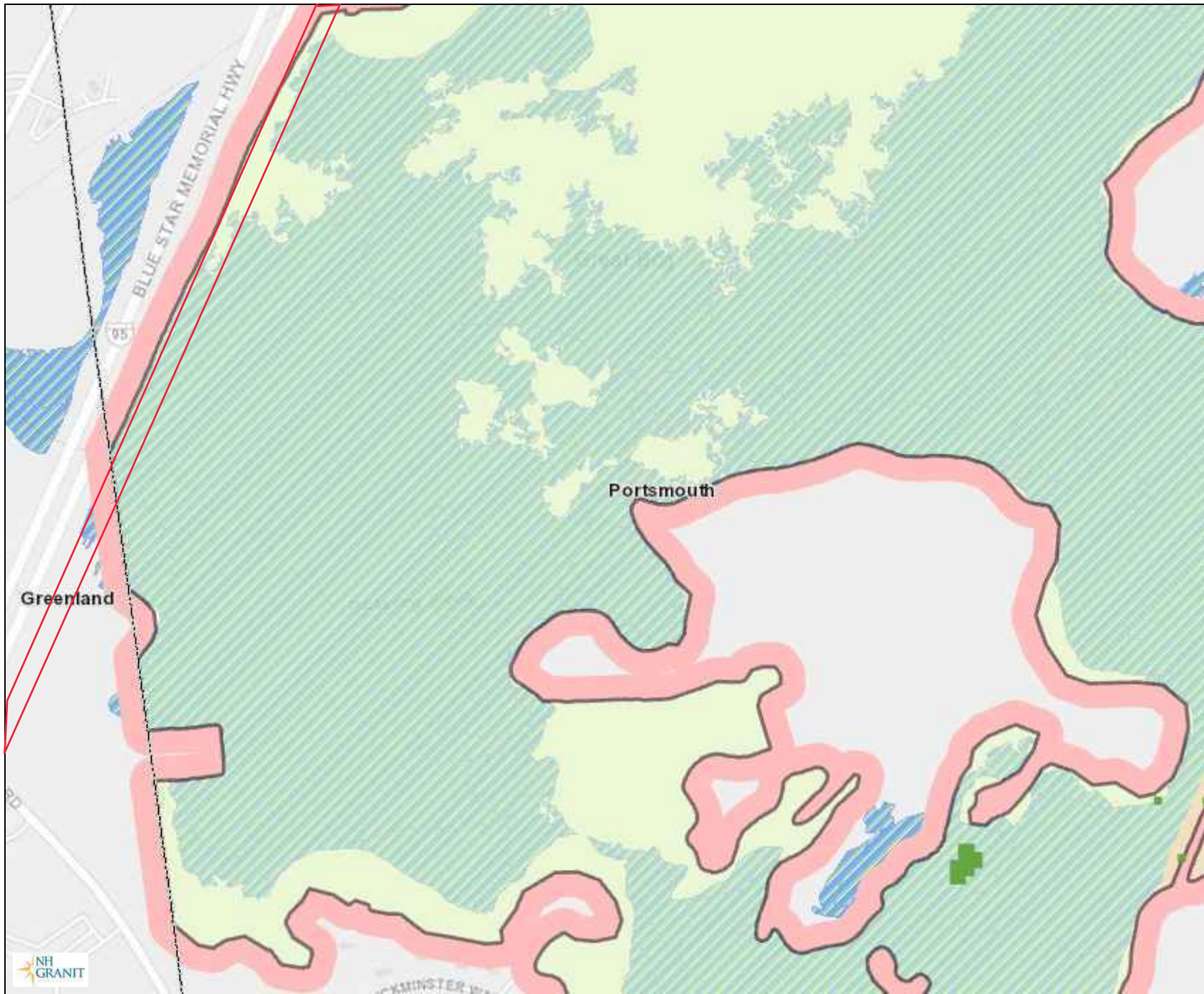


Portsmouth, New Hampshire
 2022
Tax Map 214



FIGURE 4 – WETLAND PERMIT PLANNING TOOL SCREENING

P1



Legend

- Dock Registrations
- Active Permits**
 - AGRICULT
 - EMERGENCY
 - EXPEDITED
 - PBN
 - ROADWAYREG
 - SHORE-PBN
 - SHORELAND
 - SPN
 - STD APP
 - TRAILS
 - UTILITY
 - WET-PBN
- Additional Lines
- City/Town
- Designated Rivers with a**
 - Ammonoosuc
 - Ashuelot
 - Cocheco
 - Cold

Map Scale
1: 6,494



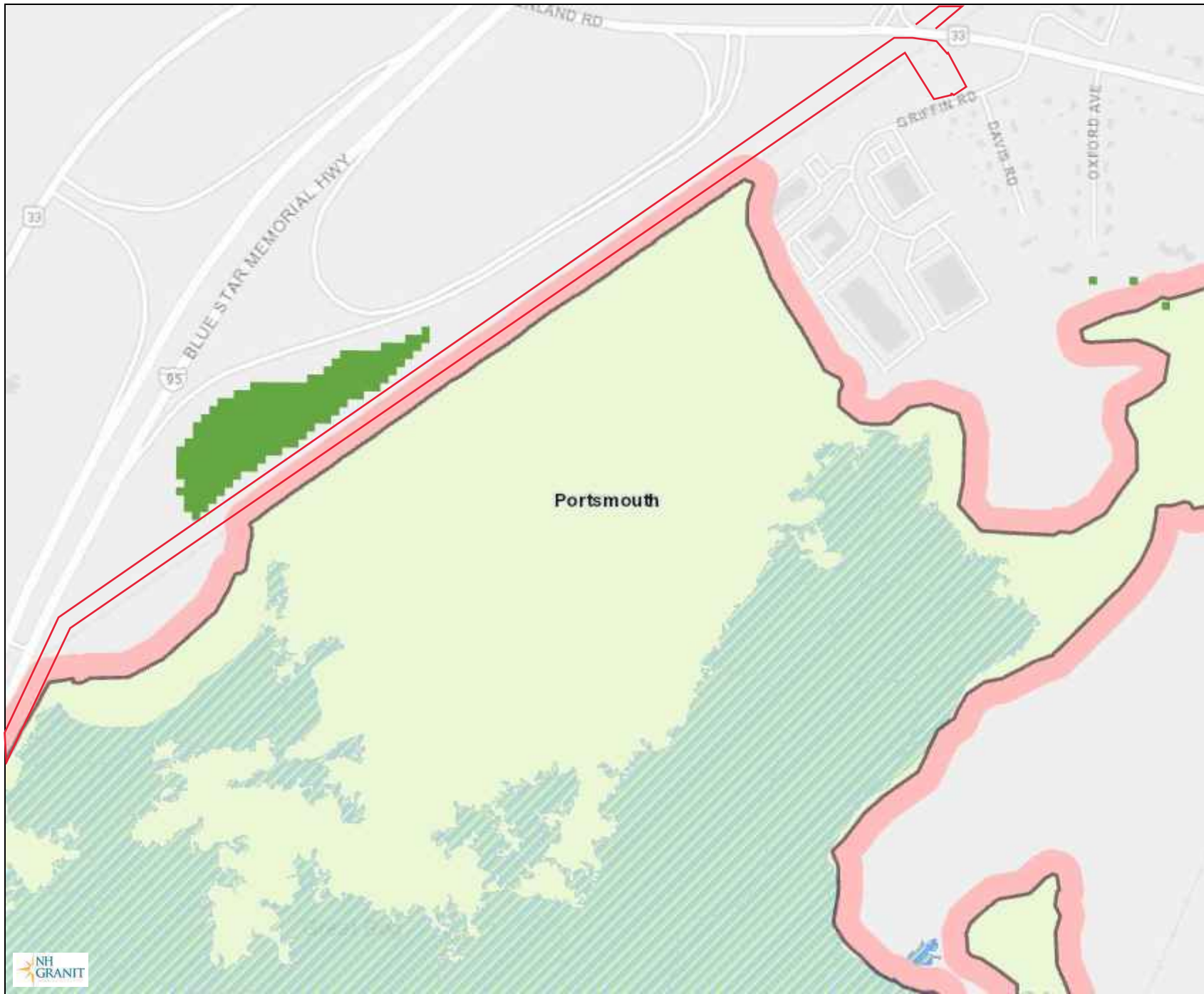
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Map Generated: 11/29/2023

Notes

Empty text box for notes.

Empty text box for notes.

P2



Legend

- Dock Registrations
- Active Permits**
 - AGRICULT
 - EMERGENCY
 - EXPEDITED
 - PBN
 - ROADWAYREG
 - SHORE-PBN
 - SHORELAND
 - SPN
 - STD APP
 - TRAILS
 - UTILITY
 - WET-PBN
- Additional Lines
- City/Town
- Designated Rivers with a**
 - Ammonoosuc
 - Ashuelot
 - Cocheco
 - Cold

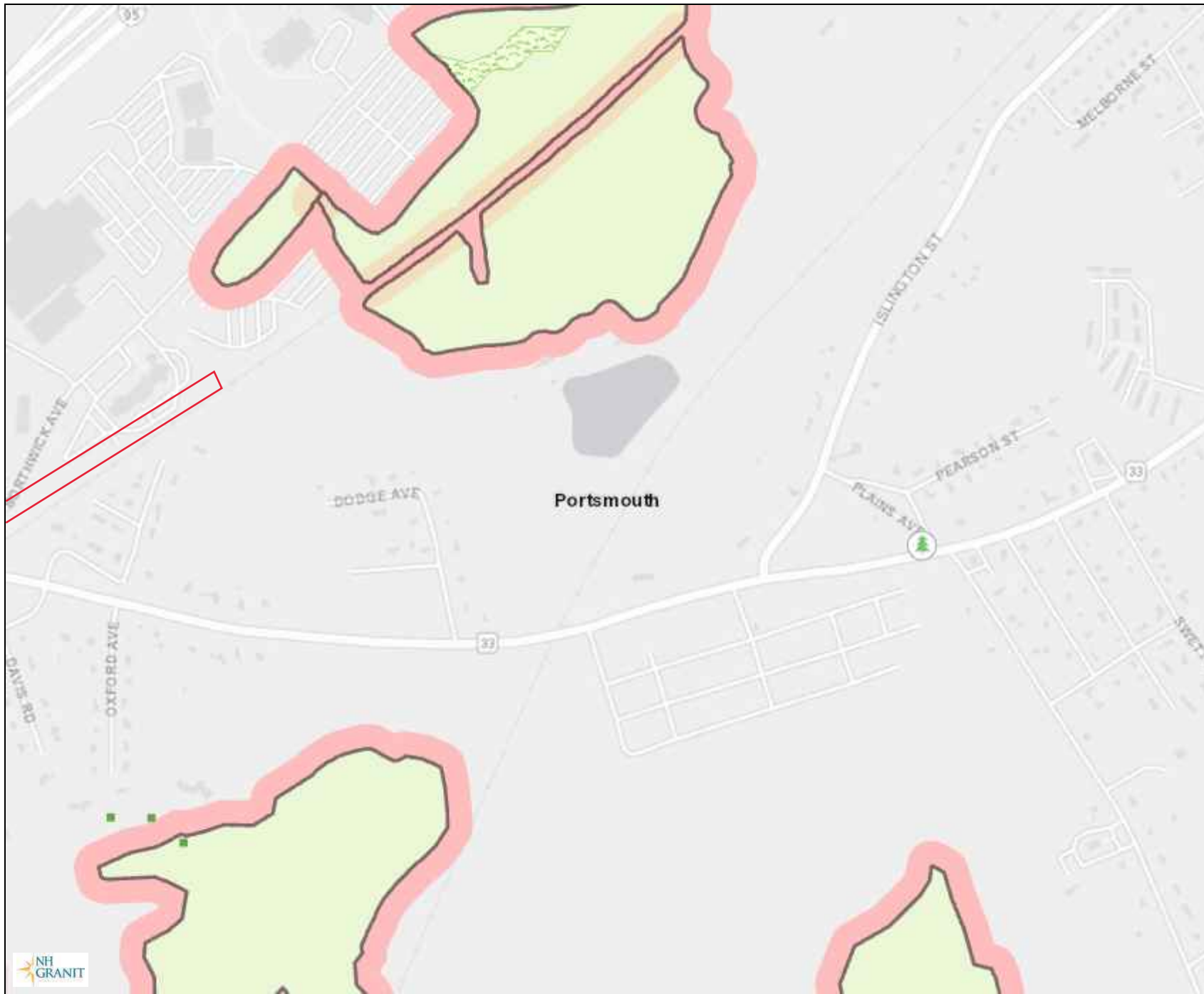
Map Scale
1: 6,494



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Notes

P3



Legend

Dock Registrations

Active Permits

- AGRICULT
- EMERGENCY
- EXPEDITED
- PBN
- ROADWAYREG
- SHORE-PBN
- SHORELAND
- SPN
- STD APP
- TRAILS
- UTILITY
- WET-PBN

Additional Lines

City/Town

Designated Rivers with a

- Ammonoosuc
- Ashuelot
- Cochecho
- Cold
-

Map Scale

1: 6,494

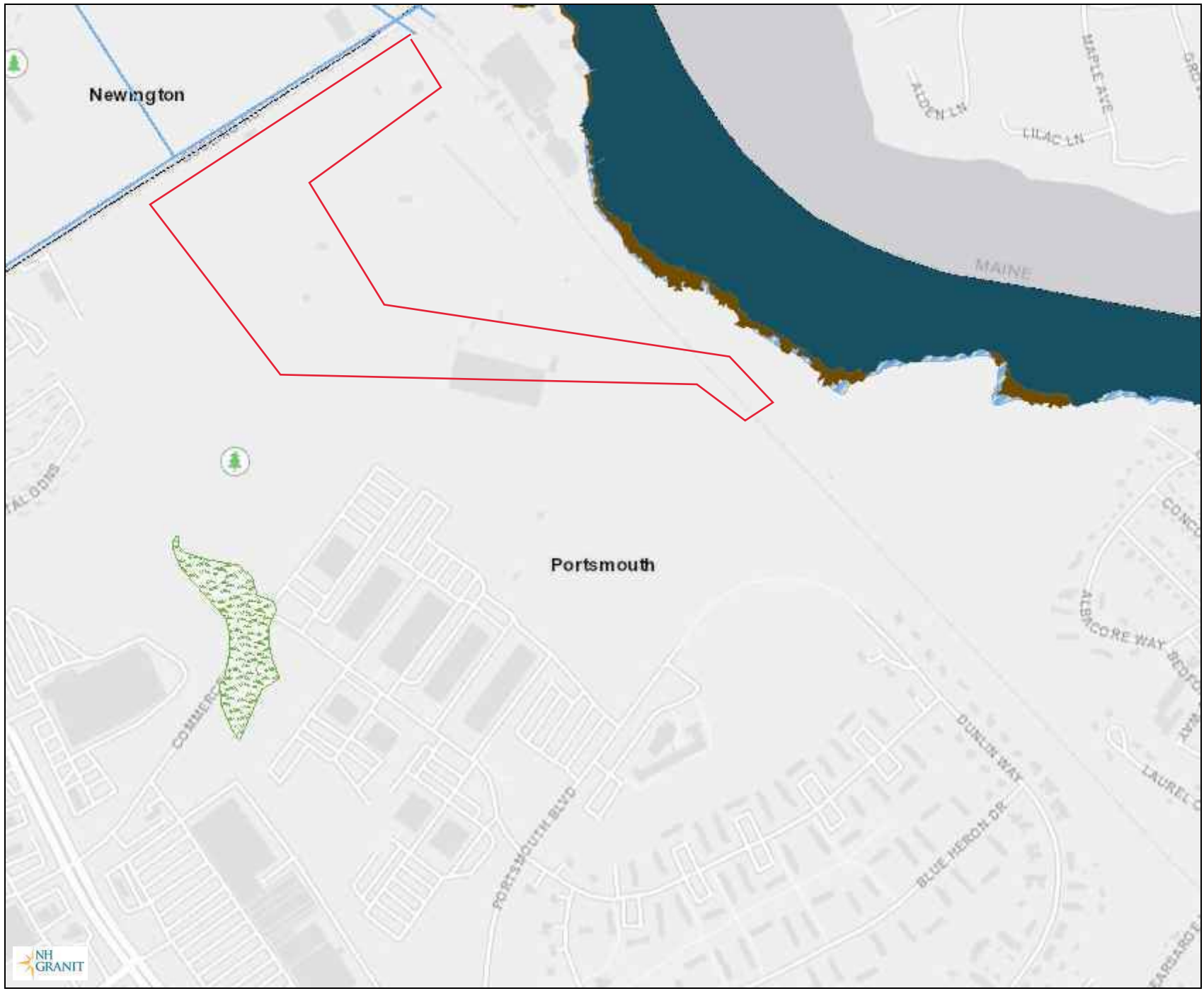


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Notes

P4



Legend

- Dock Registrations
- Active Permits**
 - AGRICULT
 - EMERGENCY
 - EXPEDITED
 - PBN
 - ROADWAYREG
 - SHORE-PBN
 - SHORELAND
 - SPN
 - STD APP
 - TRAILS
 - UTILITY
 - WET-PBN
- Additional Lines
- City/Town
- Designated Rivers with a**
 - Ammonoosuc
 - Ashuelot
 - Cocheco
 - Cold

Map Scale
1: 6,494

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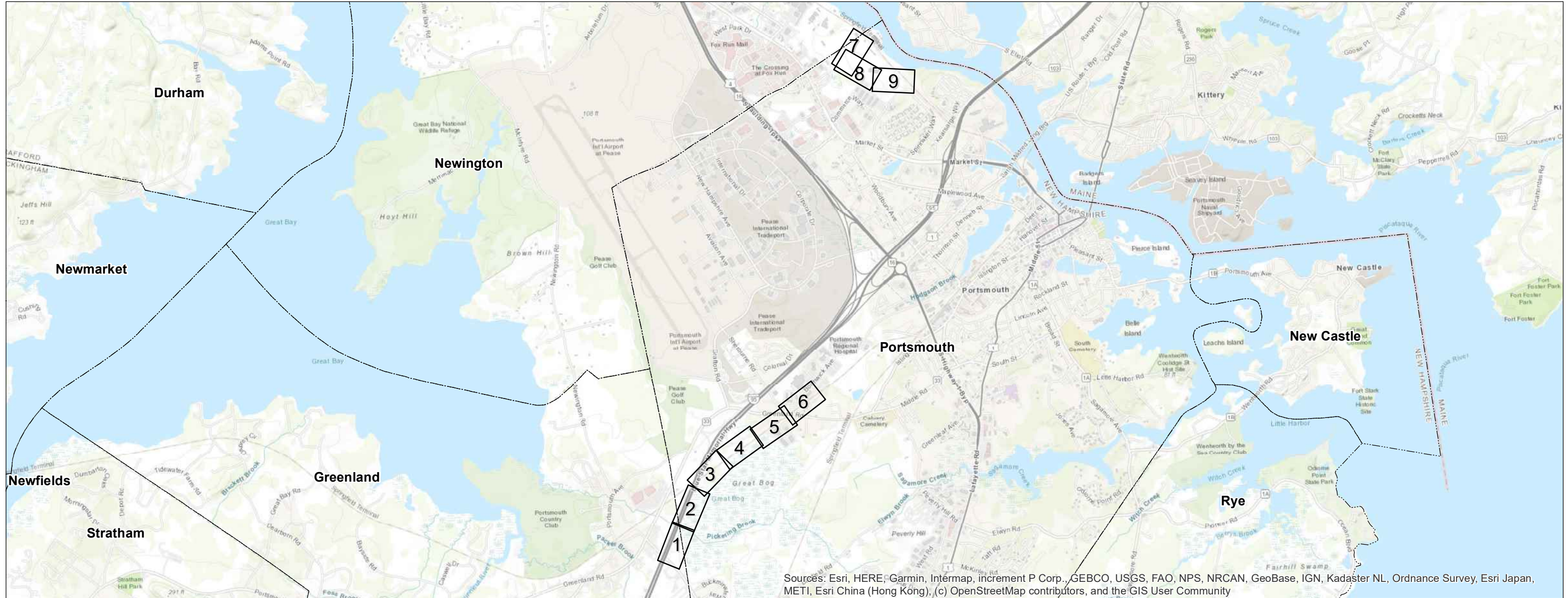
FIGURE 5 – ACCESS AND PERMITTING PLANS

Resistance Substation Retirement Project

GREENLAND AND PORTSMOUTH, NEW HAMPSHIRE

Environmental Resources Map

Date: November 14, 2023



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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EVERSOURCE
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 13 Legends Drive
 Hooksett, NH 03106



0 0.25 0.5 1 Miles

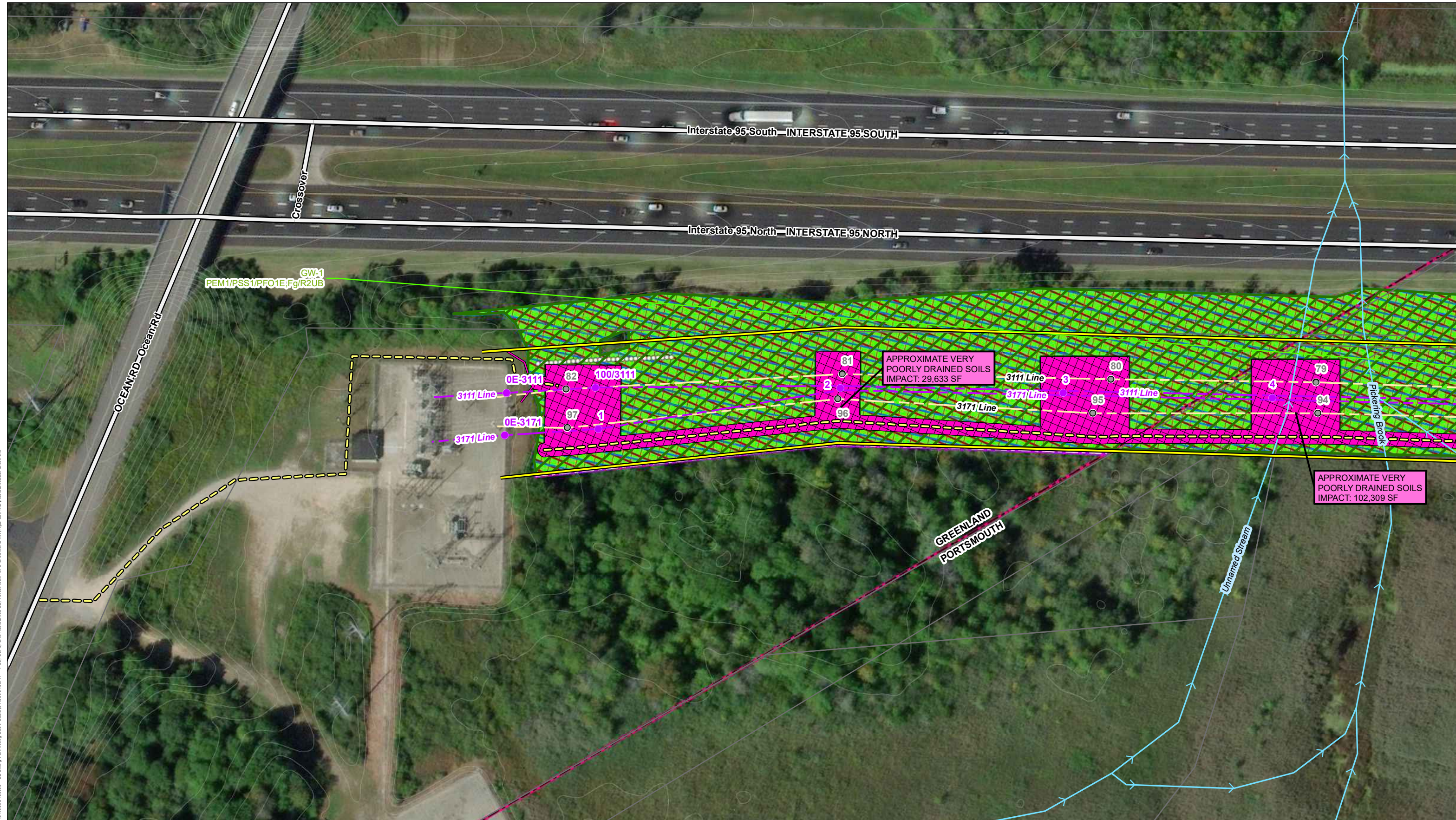
INDEX OF FIGURES

Title Sheet / Index Map
 Map Sheets 1-9

NO.	DATE	REVISIONS

PREPARED BY:

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 Engineers and Scientists
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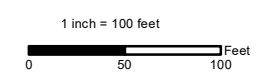


Document Path: \\CZ\Bldg\Bldg\04.0191410.00 - EE Shing Permitting 2019 - 2022\04.0191410.47 - T-13, 3171, and Resistance SS, Portsmouth and Greenland NH\Figure\WKO\ResistanceSSPlans.mxd



- | | | |
|--|---|---|
| <ul style="list-style-type: none"> ● PROPOSED STRUCTURE ● EXISTING STRUCTURE ● EXISTING STRUCTURE TO BE REMOVED — EXISTING DISTRIBUTION LINE — PROPOSED DISTRIBUTION LINE — NHDOT ROADS — FLOWLINES — TRANSMISSION LINE — APPROXIMATE ROW — EROSION CONTROLS | <ul style="list-style-type: none"> — PROPOSED ACCESS — OFF ROW ACCESS — EXISTING ACCESS — VERY POORLY DRAINED SOILS IMPACT — HISTOSOL AND HISTIC EPIPEDON SOILS — UPLAND MATTING — TEMPORARY NON-VPD WETLAND IMPACT — WETLAND DELINEATION BOUNDARY — PRIME WETLAND — PARCEL BOUNDARY — POTENTIAL VERNAL POOL | <ul style="list-style-type: none"> — PEATLAND HABITAT — WETLAND — WETLAND ADJACENT TO TIER 3+ — STONEWALL — WORK AREA — DOT ROAD — TOWN BOUNDARY — RAILROAD — 2FT CONTOURS |
|--|---|---|

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.



NO.	DATE	REVISIONS

EVERSOURCE ENERGY

RESISTANCE SUBSTATION RETIREMENT PROJECT

GREENLAND/PORTSMOUTH, NH	MAP SHEET
Date: November, 2023	
04.0191410.47	1 OF 9



Document Path: \\GZA\Belford\Jobs\04.0191410.00 - EE Shing Permitting 2019-2022\04.0191410.47 - T-13, 3171, and Resistance SS, Portsmouth and Greenland NH\Figures\WKO\Figure55Plan.mxd

APPROXIMATE VERY POORLY DRAINED SOILS IMPACT: 102,309 SF

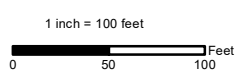
GW-1
PEM1/PSS1/PFO1E/Fg/R2UB

INDEX MAP



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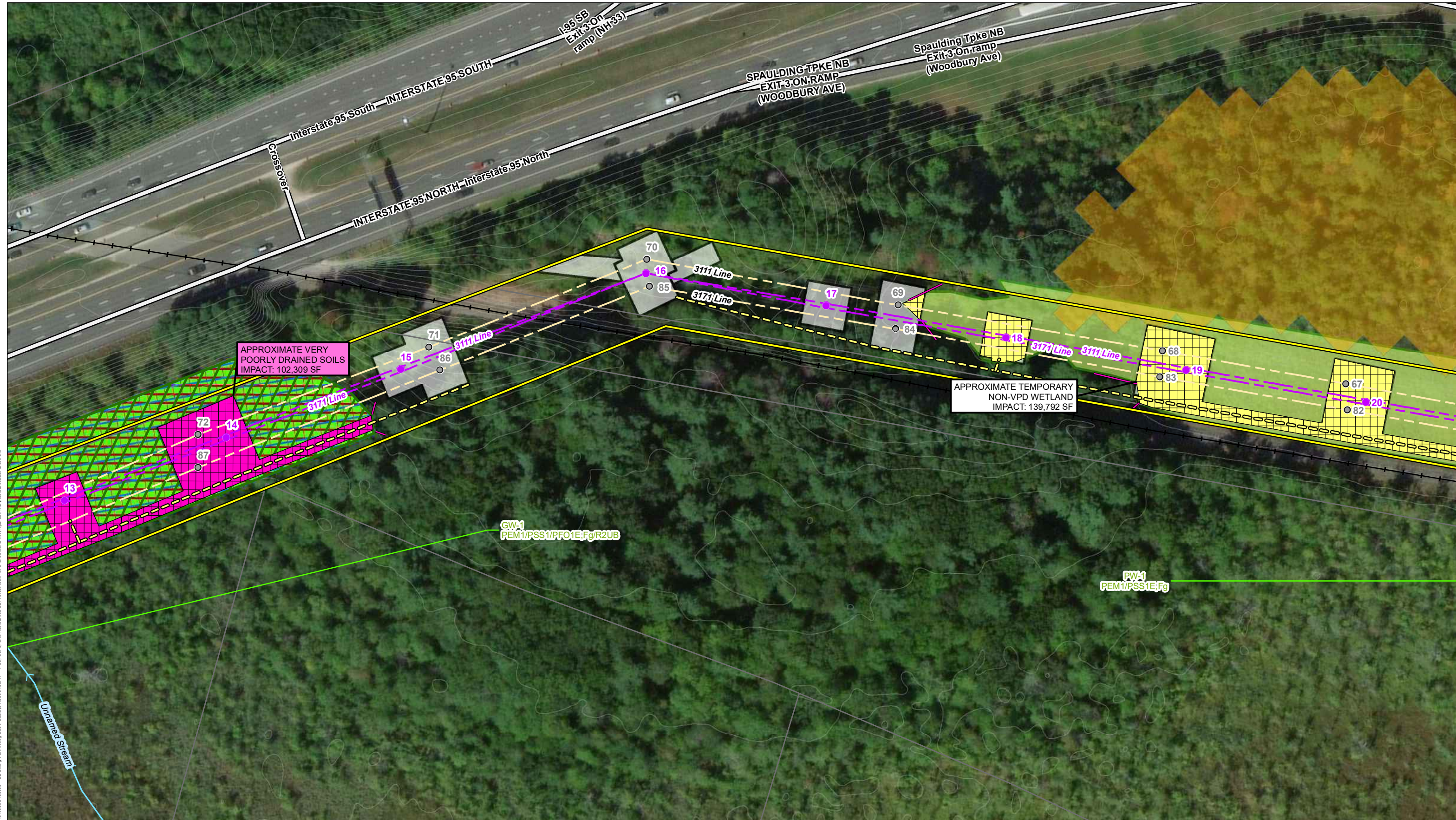


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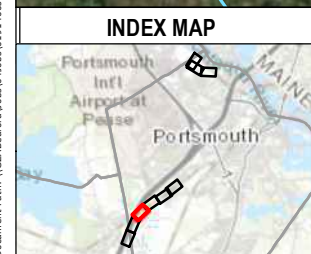
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ENERGY

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1 inch = 100 feet

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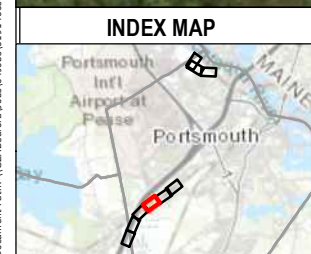
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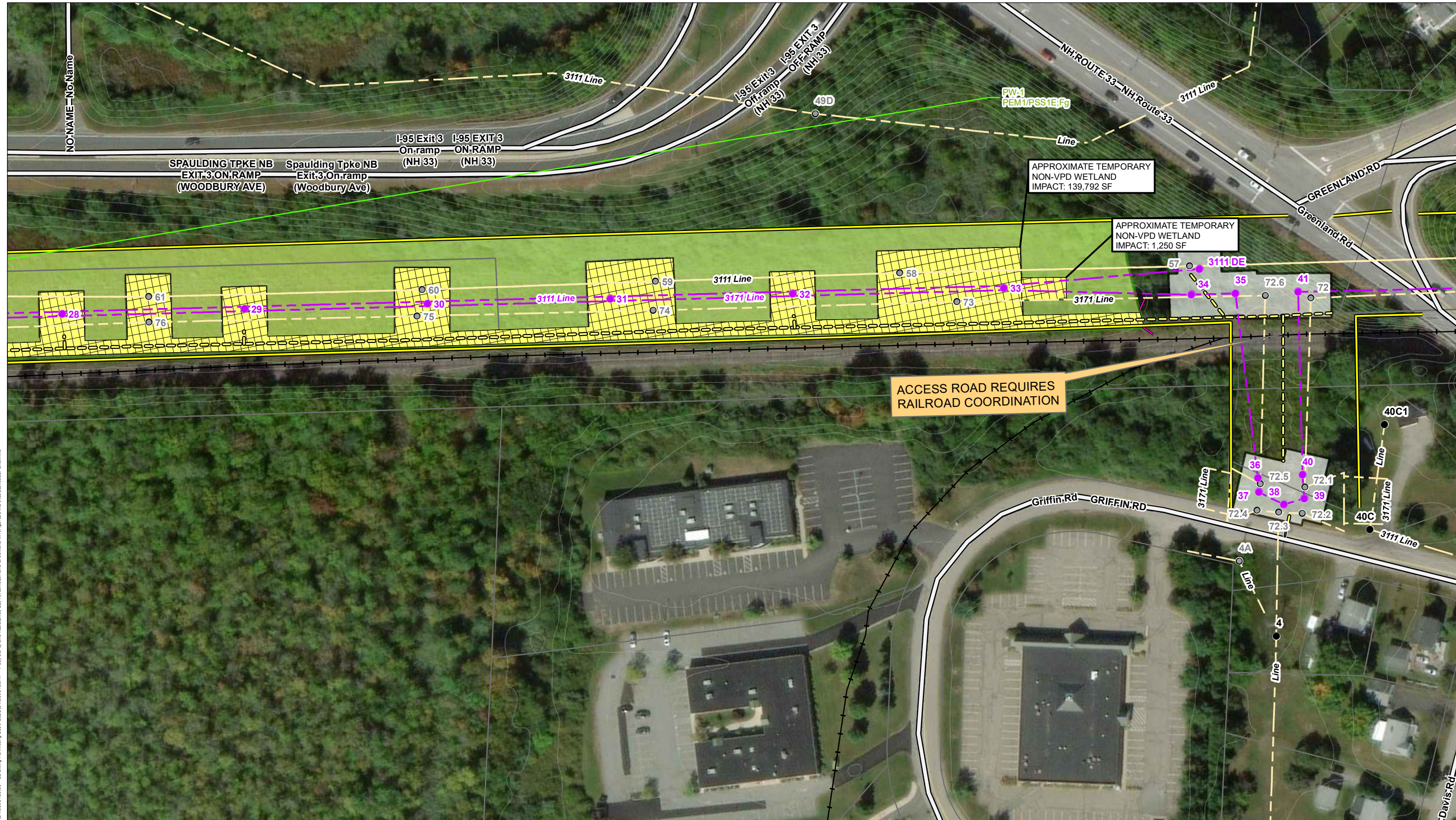
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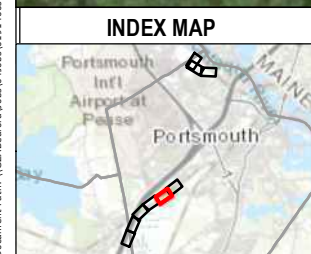
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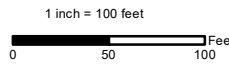


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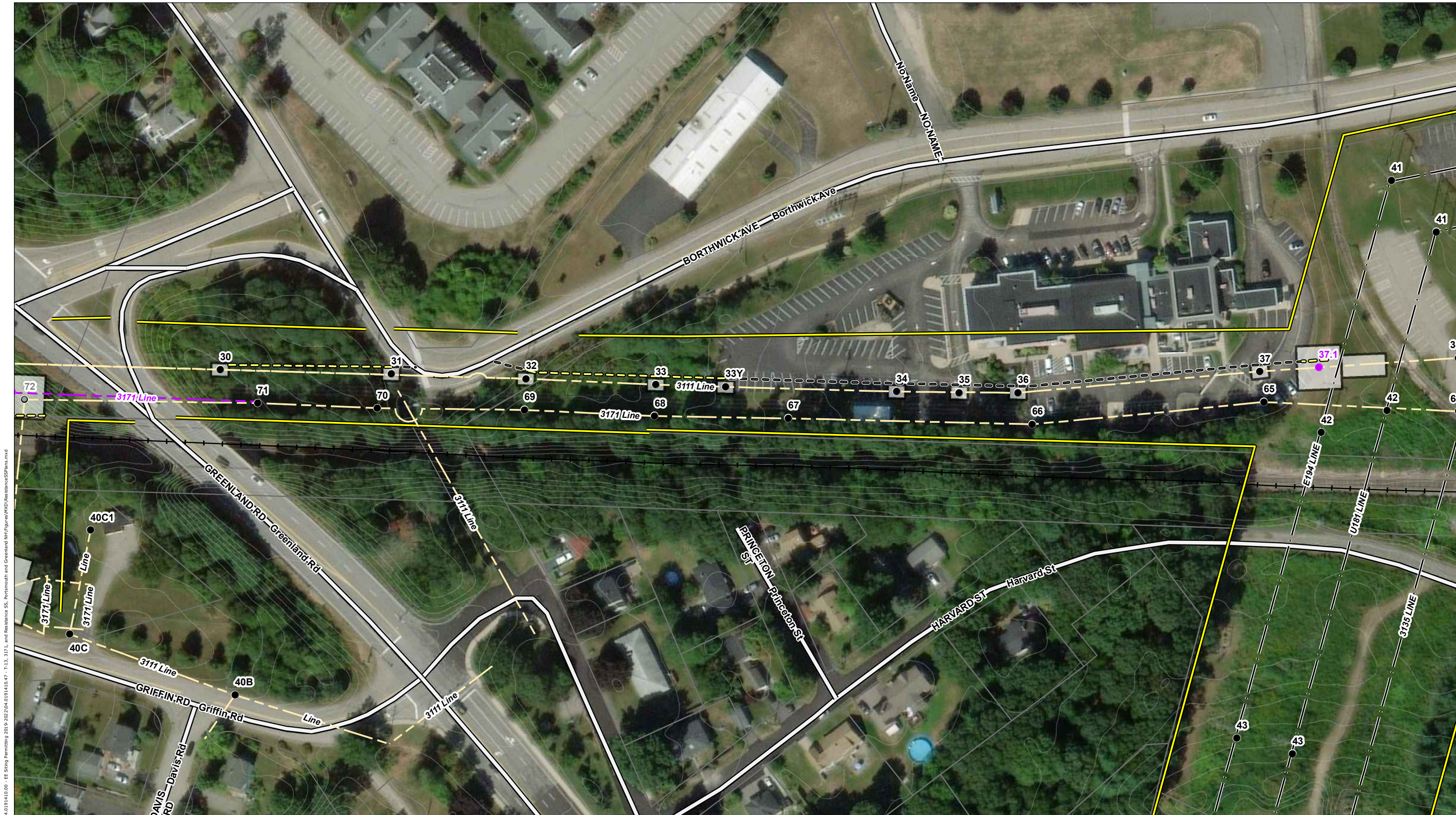
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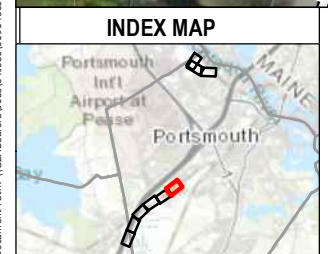
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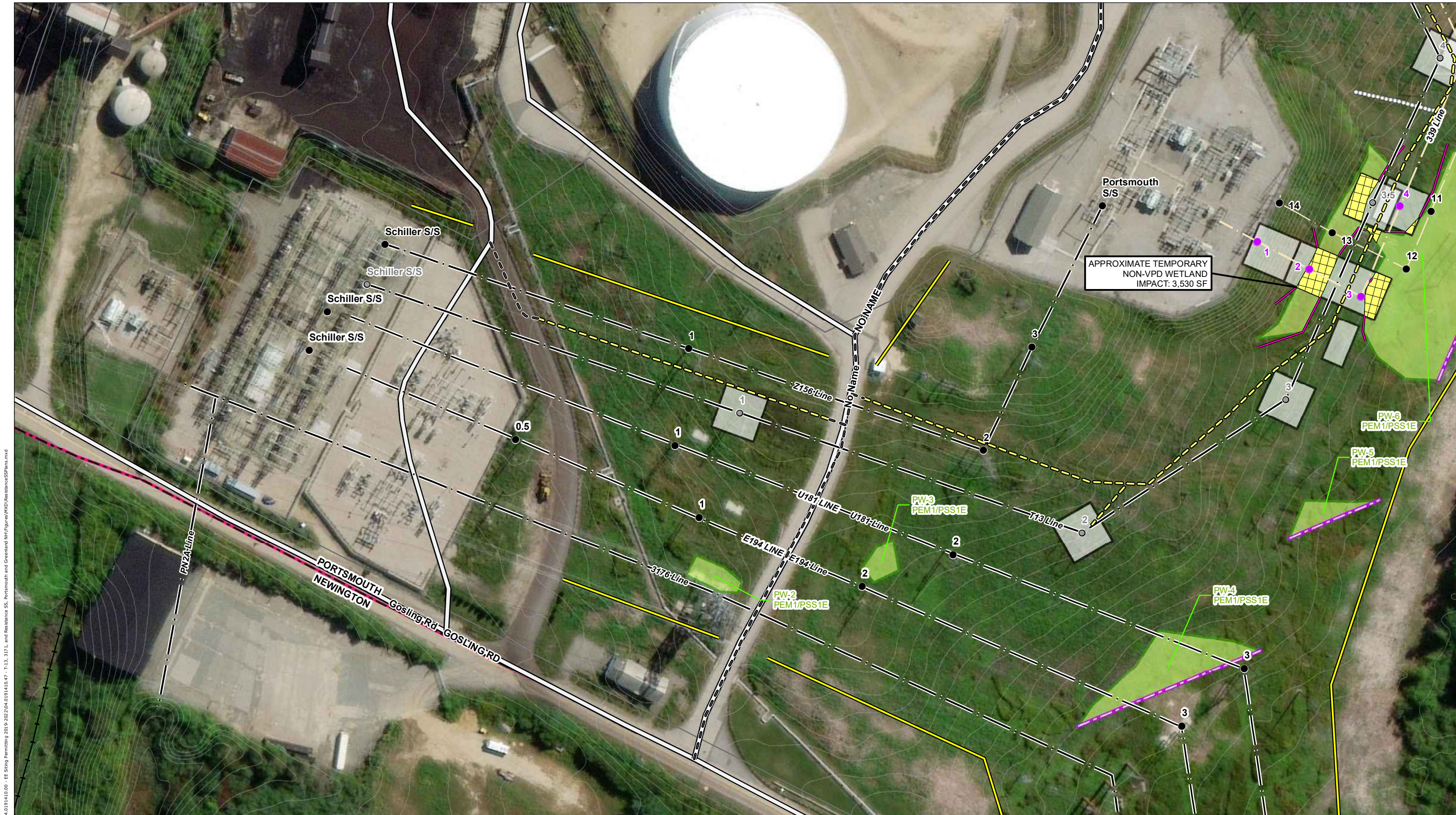
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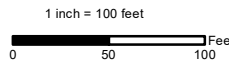
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INDEX MAP



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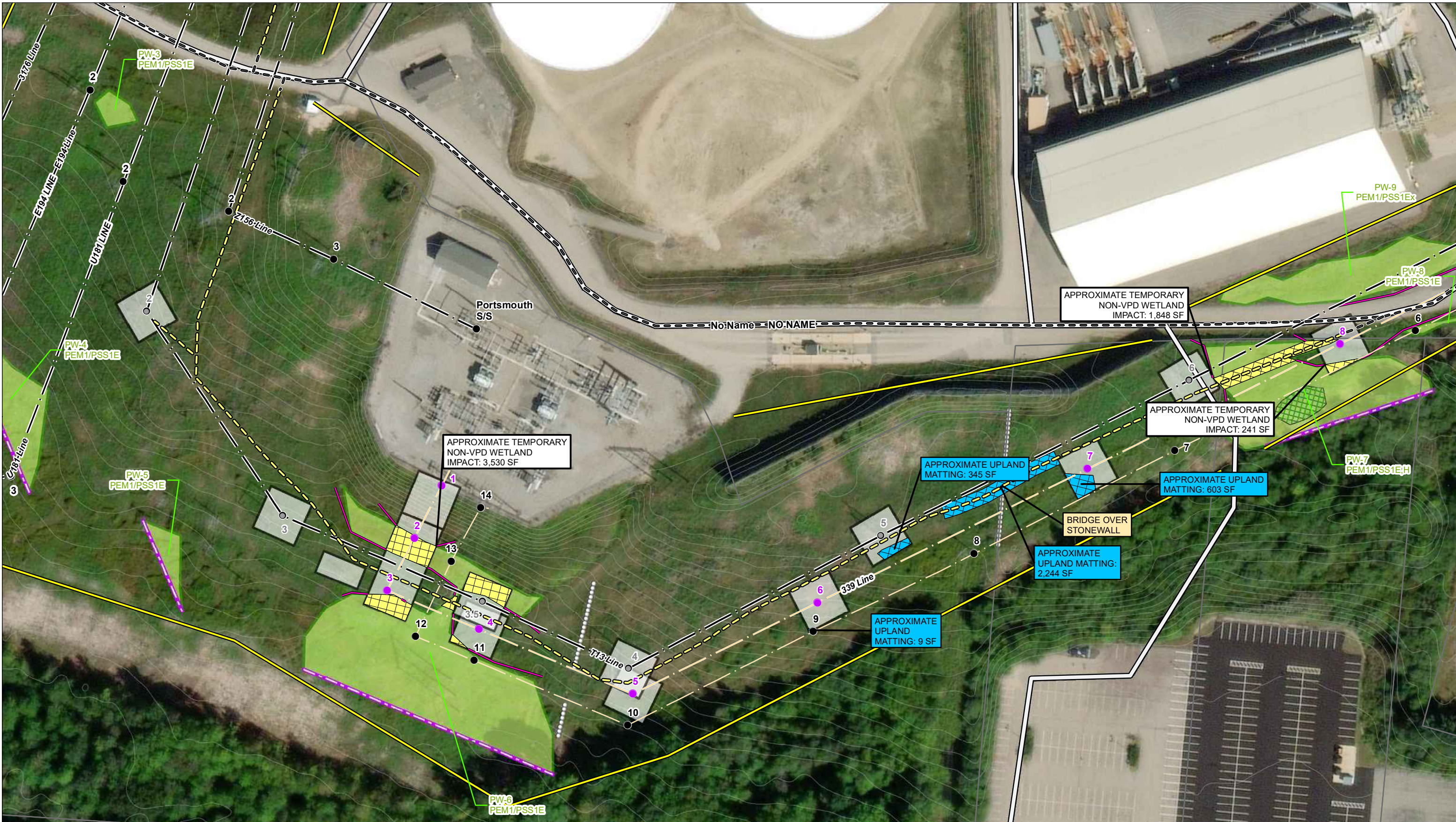


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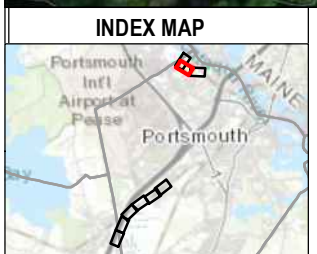


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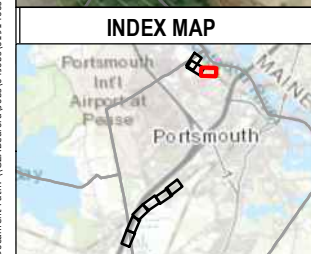
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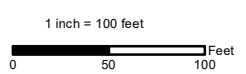


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CONSTRUCTION SEQUENCE:

1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY, AND CONSISTENT WITH THE NHDES MARCH 2019 BMP MANUAL FOR UTILITY MAINTENANCE.
3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY.
4. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, RIVER, STREAM OR OTHER BODY OF WATER; OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.
5. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT WITH COMPLETE REHABILITATION OF THE AFFECTED AREA.
6. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAND IMPACT AREA. ACCESS ROUTES SHALL NOT EXCEED A 16 FOOT-WIDTH.
7. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE SWAMP MATS WHERE REQUIRED.
8. LOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS AND ROCKS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS IS NEEDED FOR ACCESS.
9. TIMBER MATS AND PERIMETER CONTROLS WILL BE USED ALONG ACCESS ROUTES AND WORK PADS WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL SWAMP MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS; OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.
10. IF TIMBER MAT BMP IS NOT SUFFICIENT DUE TO HIGH WATER, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. A TEMPORARY CULVERT MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.
11. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.
12. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.
13. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
14. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
15. CABLE INSTALLATION WILL BE PERFORMED IN A MANNER SO AS TO AVOID, OR LIMIT TO THE MAXIMUM EXTENT POSSIBLE, TRAVERSING WETLANDS WITH HEAVY EQUIPMENT. IN SOME CASES, A HELICOPTER MAY BE USED DURING THE INSTALLATION TO MINIMIZE IMPACTS.
16. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE CABLE HAS BEEN INSTALLED ON THE NEW STRUCTURE. THE OLD STRUCTURES WILL BE REMOVED FROM THE SITE. POLES WILL BE CUT AT THE GROUND SURFACE. FOOTINGS WILL BE ABANDONED IN PLACE TO MINIMIZE IMPACTS.
17. ALL TIMBER MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
18. UPLAND DISTURBED AREAS SHALL BE RESTORED AND STABILIZED UPON COMPLETION OF CONSTRUCTION. WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 30 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 25%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNNECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOIL/LOAM.
19. ALL TEMPORARY WETLAND IMPACTS WILL BE RE-GRADED TO ORIGINAL CONTOURS FOLLOWING CONSTRUCTION. NEW ENGLAND EROSION CONTROL/RESTORATION MIX, AVAILABLE THROUGH NEW ENGLAND WETLAND PLANTS, INC., 820 WEST STREET, AMHERST, MA 01002, 413-548-8000, OR EQUIVALENT SEED MIX SHALL BE APPLIED IN WETLAND AREAS THAT ARE NOT INUNDATED, AS NECESSARY.
20. MULCH USED FOR STABILIZATION SHALL CONSIST OF SEEDLESS STRAW.
21. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
22. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
23. NATURALLY VEGETATED LOCAL WETLAND BUFFER AREAS OUTSIDE OF EXISTING TRAILS MUST BE RESTORED UPON COMPLETION OF WORK.

WINTER CONSTRUCTION NOTES

1. 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. STABILIZATION METHODS SHALL INCLUDE SEEDING AND MULCH, AND INSTALLATION OF 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 FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
2. 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 TEMPORARILY STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

3. 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 (NHDOT 304.3).

GENERAL NOTES:

OWNER: EVERSOURCE ENERGY
13 LEGENDS DRIVE
HOOKSETT, NH 03106

1. BASE PLAN PROVIDED BY EVERSOURCE ENERGY. EVERSOURCE ENERGY PROVIDED THE WETLAND DATA. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
2. JURISDICTIONAL WETLANDS WERE DELINEATED BY GZA GEOENVIRONMENTAL IN 2022, IN ACCORDANCE WITH THE 1987 U.S. ARMY CORPS OF ENGINEERS' "WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1," AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION," NOVEMBER 2022 AND FEBRUARY 2023.
3. GZA GEOENVIRONMENTAL EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2022 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 1997, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ENDANGERED WILDLIFE PROGRAM.
4. GZA GEOENVIRONMENTAL COMPLETED WETLANDS FUNCTION AND VALUES ASSESSMENT IN 2022 AND 2023 IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999.
5. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.
6. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
7. IN ACCORANCE WITH ENV-WQ 1505.02, THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A MINIMUM 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL HAS BEEN INSTALLED
 - OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

EROSION CONTROL NOTES:

1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25" OR GREATER RAINFALL EVENTS.
2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.
3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO ACCOMPLISH THIS END.
4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED WITH BMPS.
5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT ANNUAL RYEGRASS PRIOR TO OCTOBER 15TH.
6. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
7. EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF JUTE MATTING. MATTING WITH WELDED PLASTIC OR 'BIODEGRADABLE PLASTIC' NETTING OR THREAD WILL BE AVOIDED TO LIMIT UNINTENTIONAL MORTALITY TO SNAKES.

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RESISTANCE SUBSTATION RETIREMENT PROJECT
GREENLAND & PORTSMOUTH
NEW HAMPSHIRE

NOTES

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	S1
DATE: 08/15/2023	PROJECT NO: 04.0191410.47	REVISION NO.	

© 2023 - GZA GeoEnvironmental, Inc. P:04.Jobs\0191410.00 - EE Stiling Permitting 2019-2022\04.0191410.47 - T-13, 3171, and Resistance SS - Portsmouth and Greenland NH\Figures\AXD\3171 T-13 AOT Notesheet 2.mxd, 8/15/2023, 9:04:06 AM, Sydney.Wicklund

Best Management Practices (BMP's) for Straw wattles

Definition and purpose:

Straw wattles are burlap rolls filled with straw that trap sediment and interrupt water flow by reducing slope lengths.

Applications:

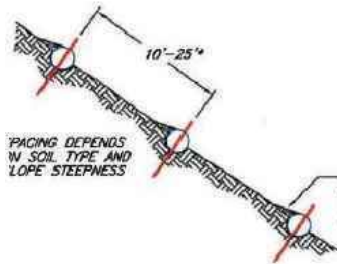
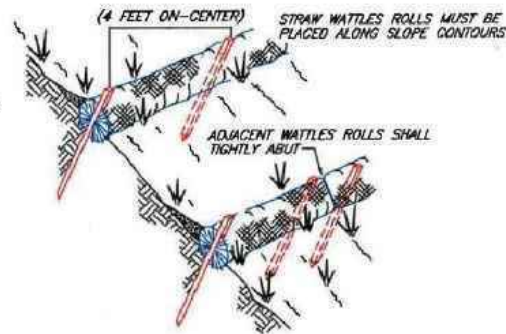
- * Along erodible or unstabilized slopes
- * Spread overland waterflow
- * Trap sediment
- * Around storm drain inlets to slow water and settle out sediment
- * Overlap ends approximately 6 inches

Installation:

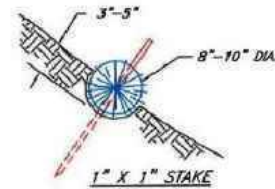
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

Spacing* - Dependent on slope length, soil steepness and soil type (general range 10 - 25').

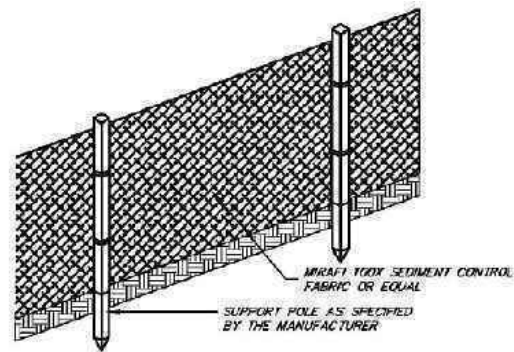
Trenching - 2"-5" inch trench
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



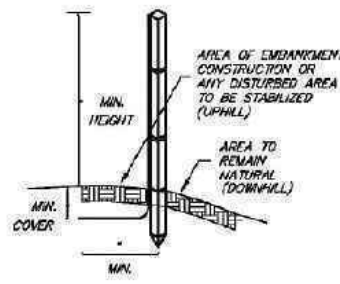
SEDIMENT, ORGANIC MATTER, AND NATIVE SEEDS ARE CAPTURED BEHIND THE WATTLE ROWS.



NOT TO SCALE



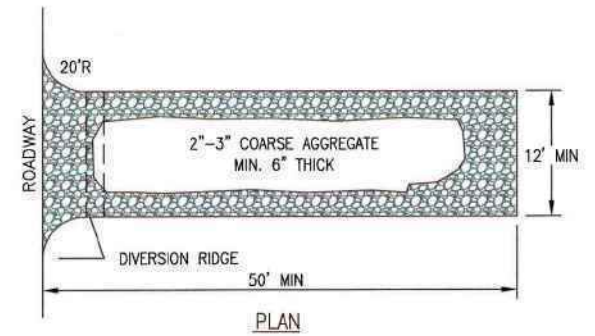
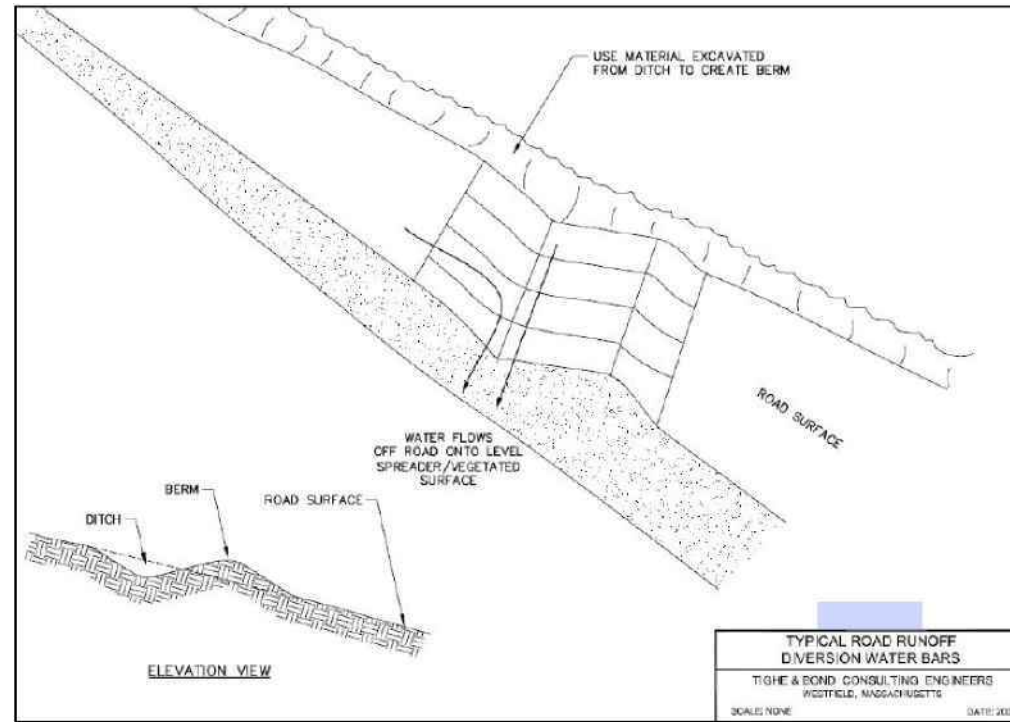
FRONT VIEW



SIDE VIEW

NOTES (SILT FENCE)

1. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES.
2. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.
3. POSTS SHALL BE PLACED AT A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS MANUFACTURER RECOMMENDS.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE OF THE BARRIER IN ACCORDANCE WITH RECOMMENDATIONS.
5. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE, AND WILL EXTEND A MINIMUM OF 8 INCHES INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
7. FABRIC BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST ONCE DAILY DURING PROLONGED RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
10. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
11. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

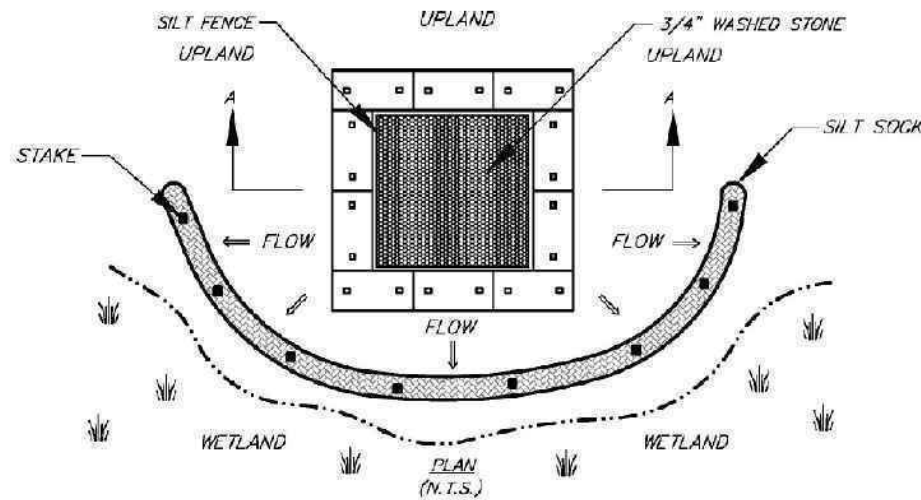


NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

CONSTRUCTION ENTRANCE

NOT TO SCALE



DEWATERING DETAIL N.T.S.

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RESISTANCE SUBSTATION RETIREMENT PROJECT
GREENLAND AND PORTSMOUTH
NEW HAMPSHIRE

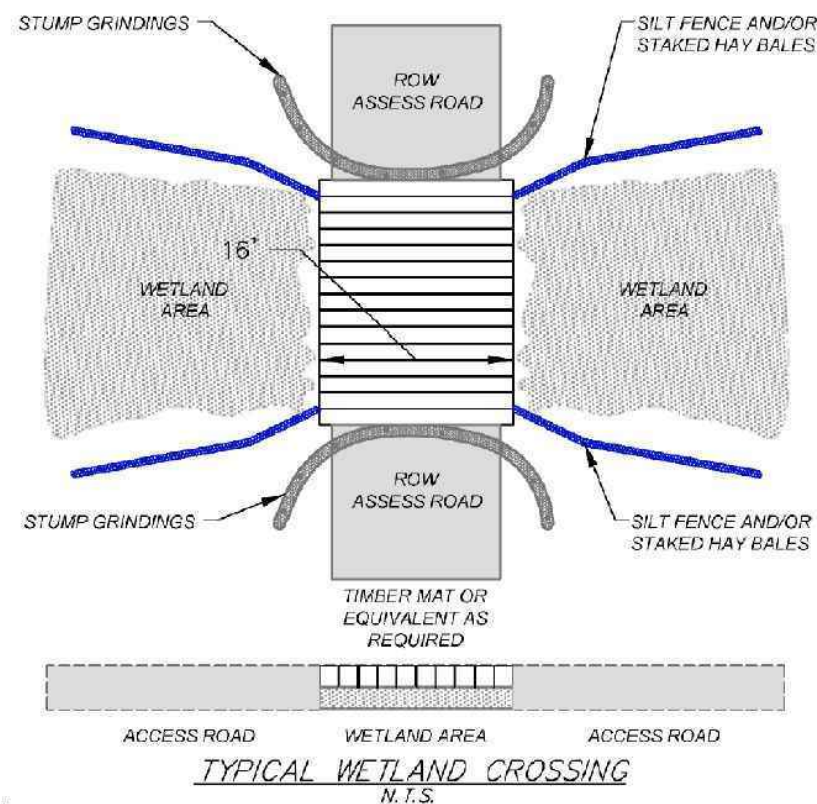
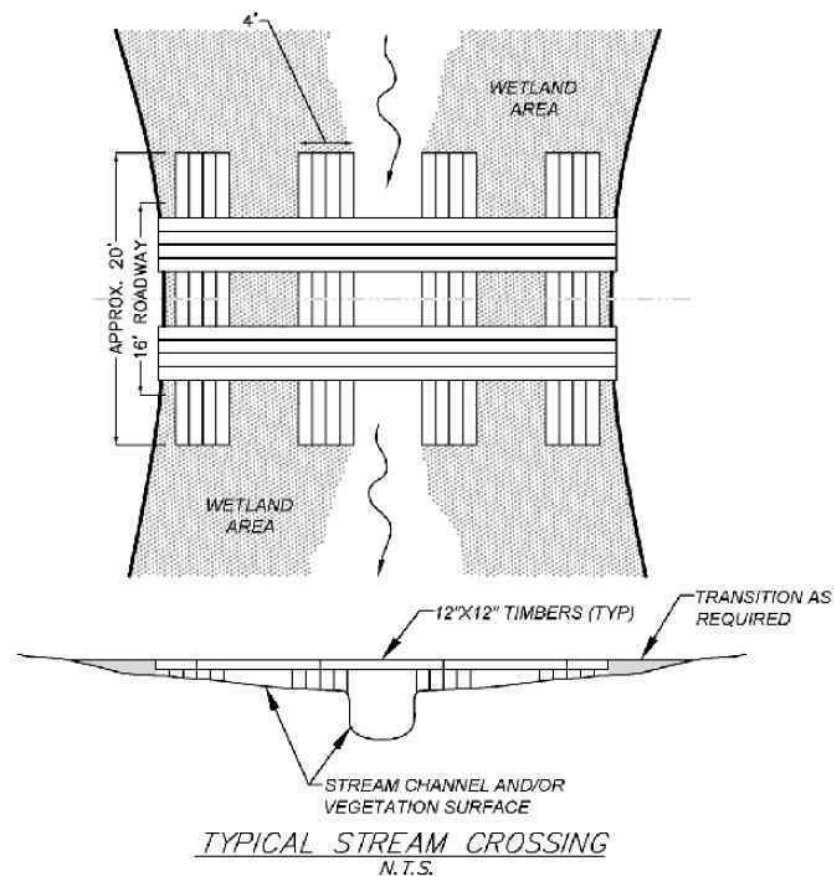
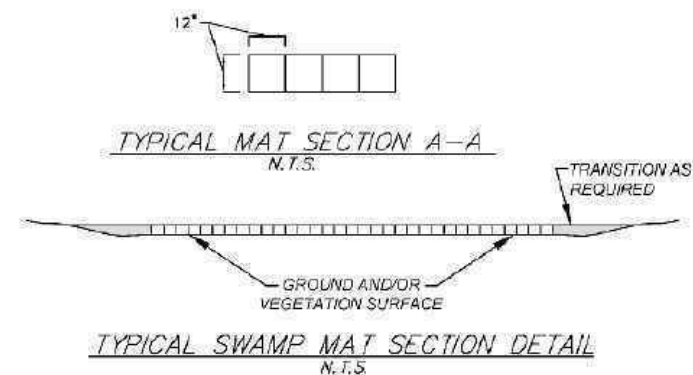
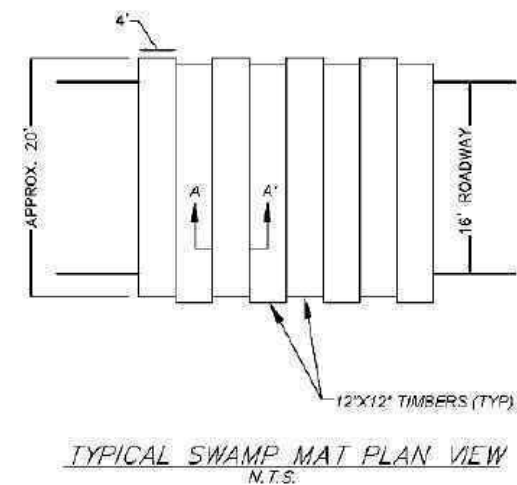
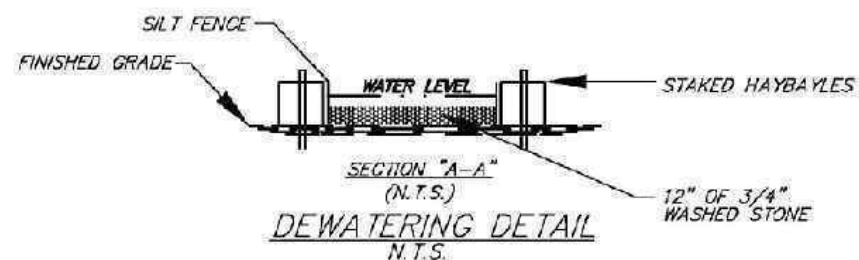
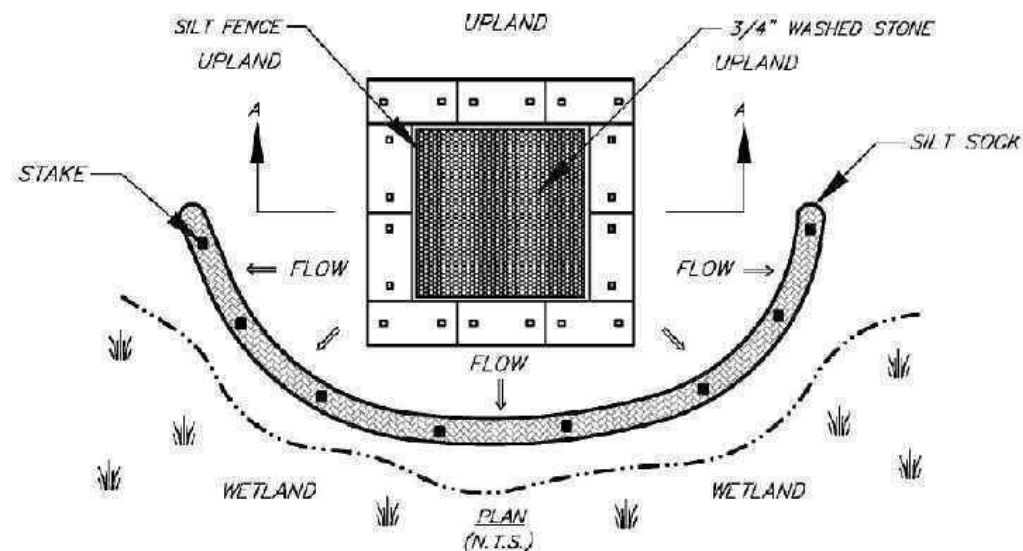
BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
EVERSOURCE
ENERGY

PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S2
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/15/2023	PROJECT NO: 04.0191410.47	REVISION NO:	

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RESISTANCE SUBSTATION RETIREMENT PROJECT
GREENLAND AND PORTSMOUTH
NEW HAMPSHIRE

BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
EVERSOURCE
ENERGY

PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S3
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/15/2023	PROJECT NO: 04.0191410.47	REVISION NO:	

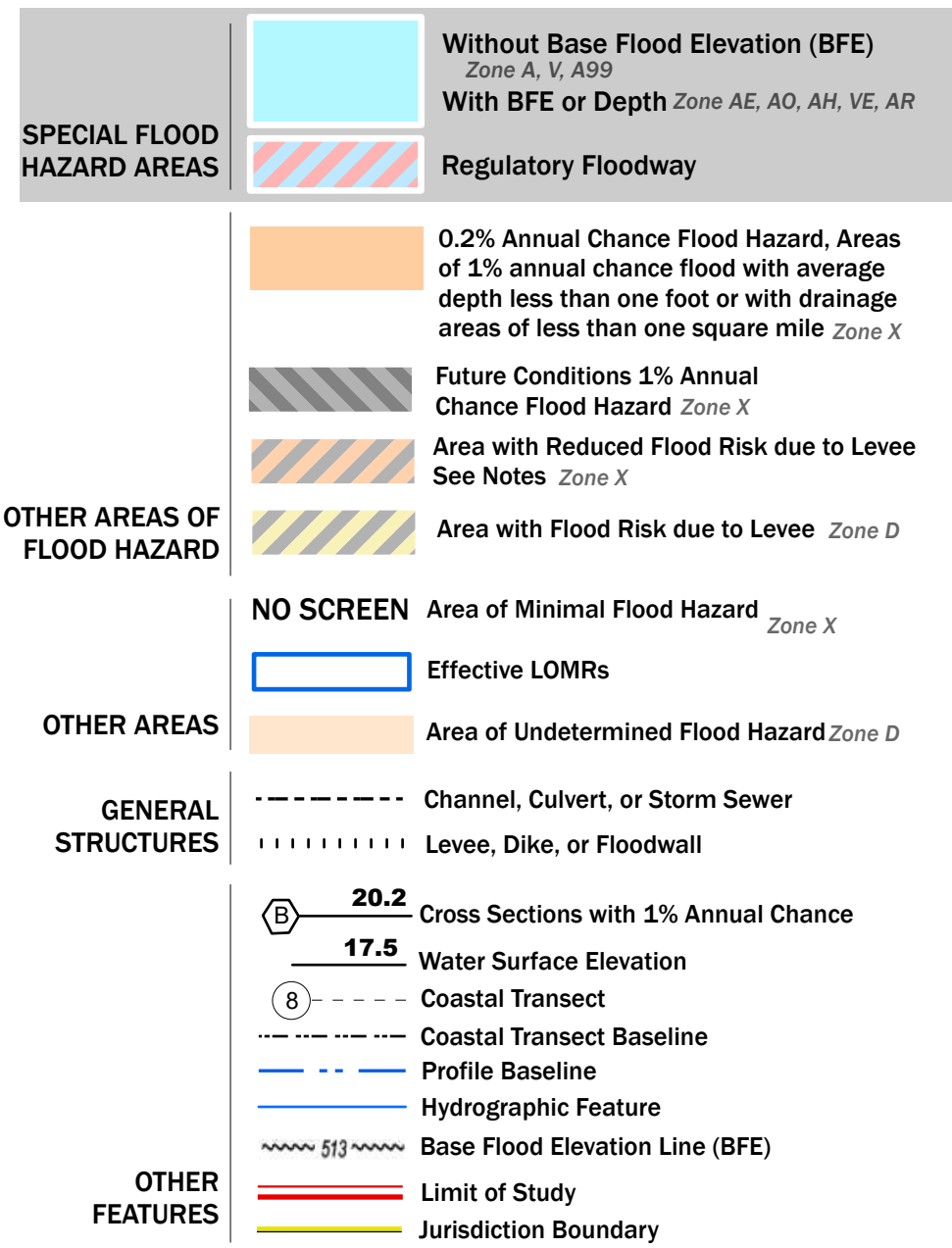


FIGURE 6 – FEMA FLOODPLAIN MAPS



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT



NOTES TO USERS

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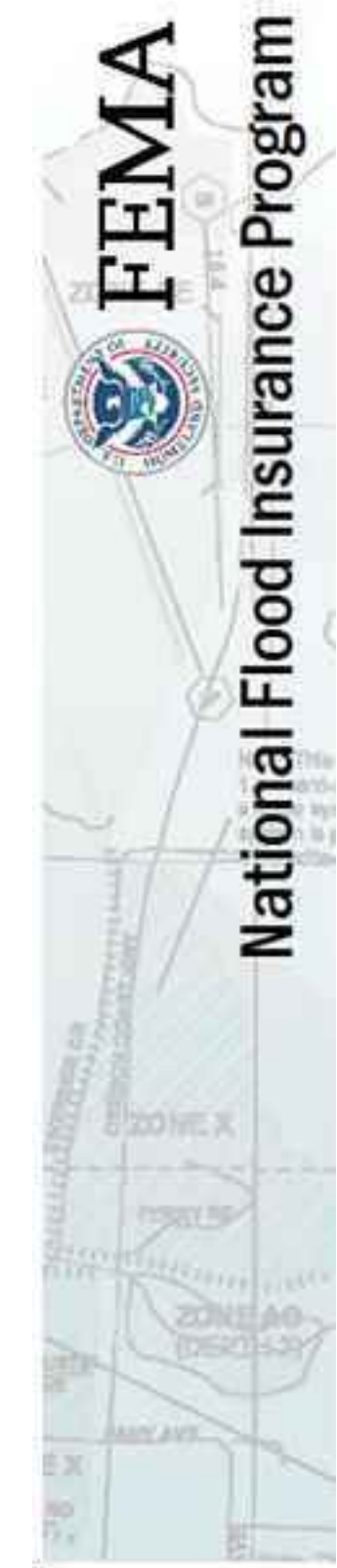
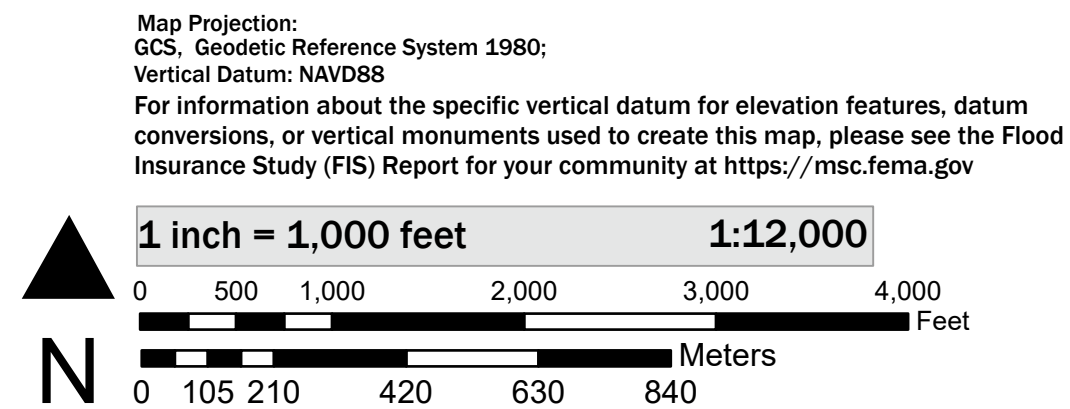
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SCALE

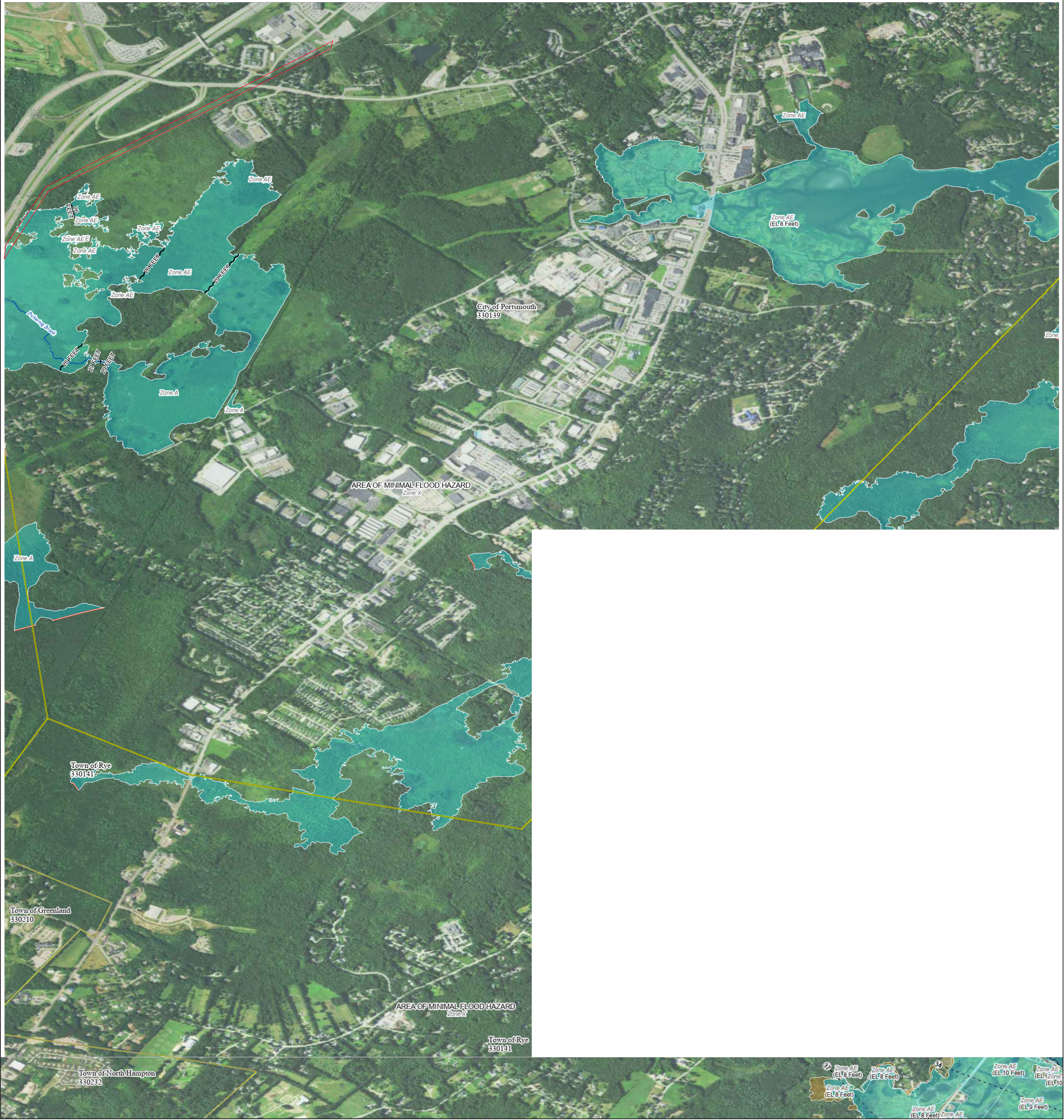


**NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP**

PANEL 265 OF 681

Panel Contains:

COMMUNITY	NUMBER	PANEL
TOWN OF NORTH HAMPTON	330232	0265
TOWN OF STRATHAM	330197	0265
TOWN OF RYE	330141	0265
TOWN OF GREENLAND	330210	0265
CITY OF PORTSMOUTH	330139	0265
TOWN OF NEWINGTON	330229	0265



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage 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	NO SCREEN Area of Minimal Flood Hazard Zone X
	Effective LOMRs
OTHER AREAS	Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	20.2 Cross Sections with 1% Annual Chance
	17.5 Water Surface Elevation
	8 Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature
OTHER FEATURES	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

NOTES TO USERS

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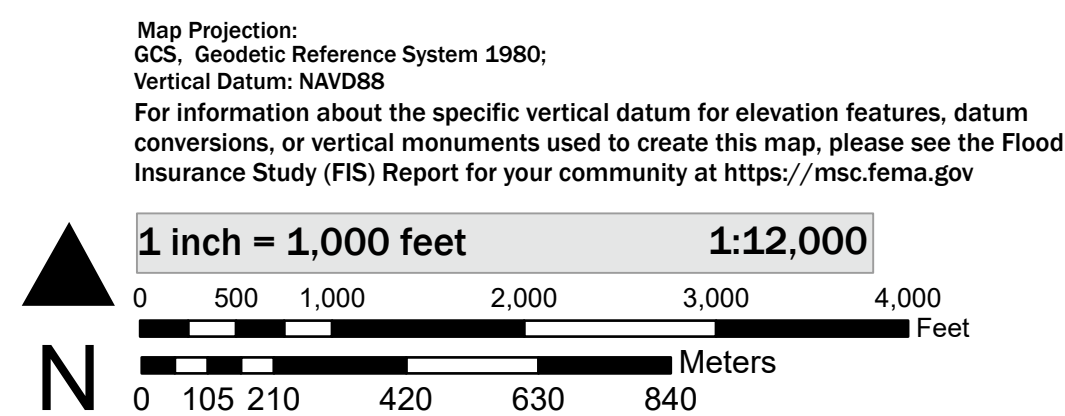
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SCALE



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

PANEL 270 OF 681

Panel Contains:

COMMUNITY	NUMBER	PANEL
TOWN OF NORTH HAMPTON	330232	0270
TOWN OF RYE	330141	0270
TOWN OF GREENLAND	330210	0270
CITY OF PORTSMOUTH	330139	0270



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage 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	NO SCREEN Area of Minimal Flood Hazard Zone X
	Effective LOMRs
OTHER AREAS	Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	20.2 Cross Sections with 1% Annual Chance
	17.5 Water Surface Elevation
	8 Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature
OTHER FEATURES	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

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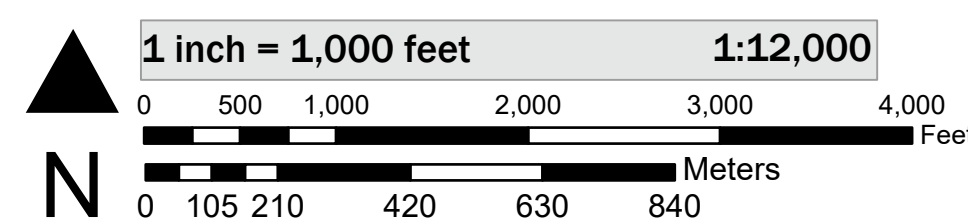
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SCALE

Map Projection: GCS, Geodetic Reference System 1980;
Vertical Datum: NAVD83
For information about the specific vertical datum for elevation features, datum conversions, or vertical monuments used to create this map, please see the Flood Insurance Study (FIS) Report for your community at <https://msc.fema.gov>



NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP

PANEL 260 OF 681

Panel Contains:

COMMUNITY	NUMBER	PANEL
CITY OF PORTSMOUTH	330139	0260
TOWN OF NEWINGTON	330229	0260





FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
OTHER AREAS		Area with Reduced Flood Risk due to Levee See Notes <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
GENERAL STRUCTURES		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
OTHER FEATURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance
OTHER FEATURES		17.5 Water Surface Elevation
		8 Coastal Transect
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

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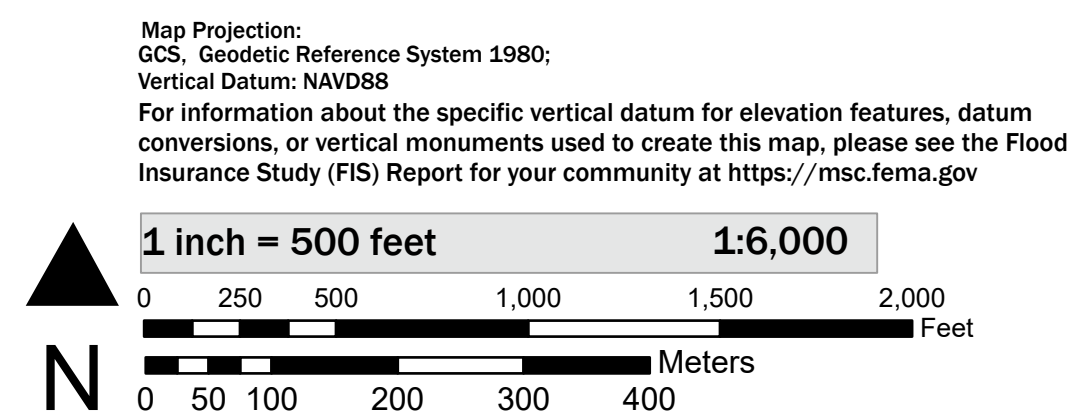
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SCALE



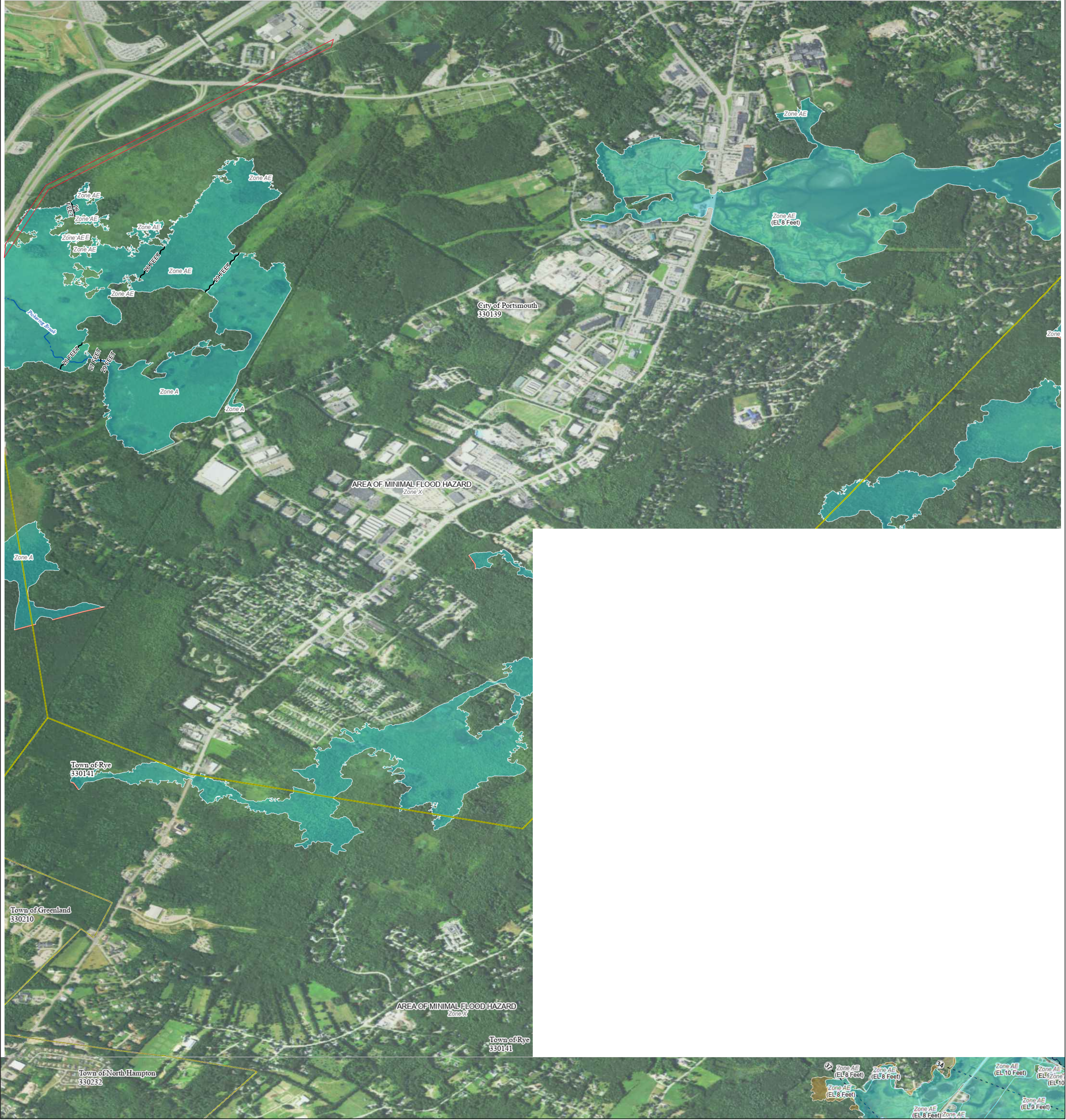
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

PANEL 259 OF 681

Panel Contains:

COMMUNITY	NUMBER	PANEL
CITY OF PORTSMOUTH	330139	0259





FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage 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		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		8 Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
OTHER FEATURES		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-6627) or visit the FEMA Flood Map Service Center website at <https://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction.

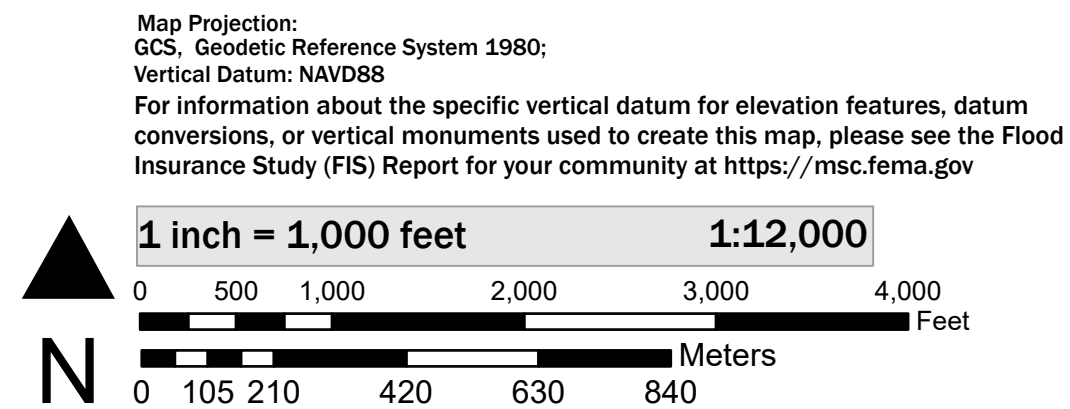
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

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This map was exported from FEMA's National Flood Hazard Layer (NFHL) on 11/27/2023 3:37 PM 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. For additional information, please see the Flood Hazard Mapping Updates Overview Fact Sheet at <https://www.fema.gov/media-library/assets/documents/118418>

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SCALE



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

PANEL 270 OF 681

Panel Contains:

COMMUNITY	NUMBER	PANEL
TOWN OF NORTH HAMPTON	330232	0270
TOWN OF RYE	330141	0270
TOWN OF GREENLAND	330210	0270
CITY OF PORTSMOUTH	330139	0270





FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage 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		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance
		17.5 Cross Sections with 1% Annual Chance
		Water Surface Elevation
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
OTHER FEATURES		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

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For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction.

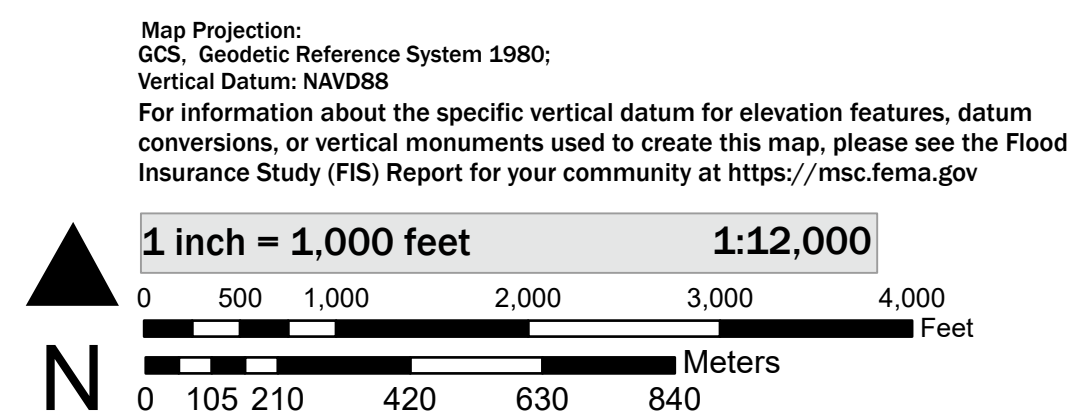
To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

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SCALE



NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP

PANEL 260 OF 681

Panel Contains:

COMMUNITY	NUMBER	PANEL
CITY OF PORTSMOUTH	330139	0260
TOWN OF NEWINGTON	330229	0260





FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
OTHER AREAS		Area with Reduced Flood Risk due to Levee See Notes <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
GENERAL STRUCTURES		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
OTHER FEATURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance
OTHER FEATURES		17.5 Water Surface Elevation
		8 Coastal Transect
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

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For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction.

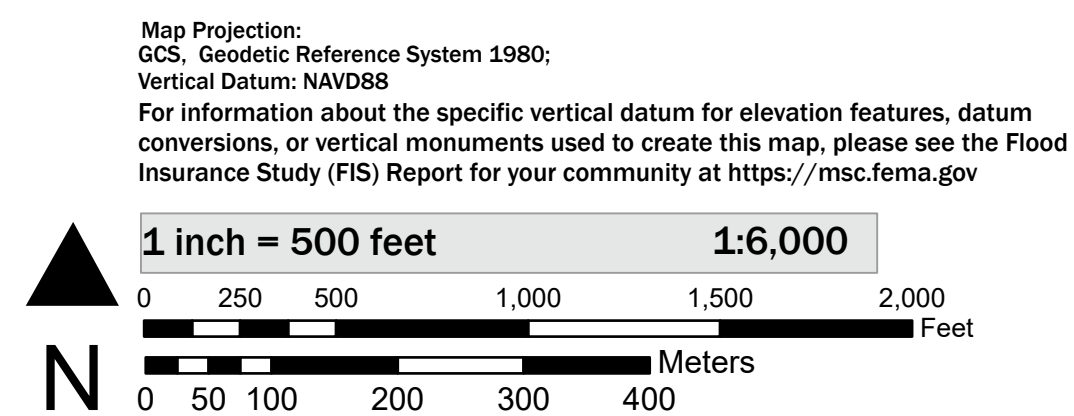
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SCALE

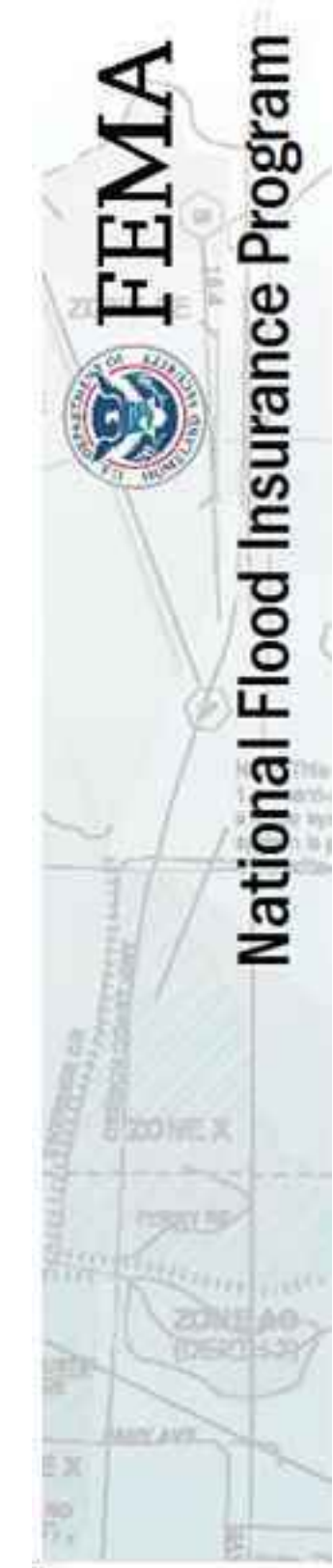


NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

PANEL 259 OF 681

Panel Contains:

COMMUNITY	NUMBER	PANEL
CITY OF PORTSMOUTH	330139	0259





APPENDIX A – EVERSOURCE EASEMENT INFORMATION

Resistance Substation Easement Information

GENERAL INFORMATION				
DOCUMENT NO.	LINE	GRANTEE	VOLUME	PAGE
EAN-262	3111/3171	PSNH	1196	252
DDA-645	3111/3171	PSNH	1790	44
EAA-3200	3111/3171	PSNH	1350	185
EAN-154	3111/3171	PSNH	1255	259
EAN-412	3111/3171	PSNH	1147	98
EAN-414	3111/3171	PSNH	1147	94
EAN-415	3111/3171	PSNH	1147	102
EAN-417	3111/3171	PSNH	1147	106
EAN-431	3111/3171	PSNH	1148	369
GFN -16	3111/3171	PSNH	1147	306
DDA-1186 (1), (2), (3)	T13	PSNH	5887	823
FDA-117	T13	PSNH	N/A	N/A
EAA-1402	T13	PSNH	1150	218



APPENDIX B
ABUTTER LIST



Eversource Resistance Substation Rebuild Project
Greenland and Portsmouth, New Hampshire
Appendix B - Parcels Intersecting Project Area

Greenland
Tax Map - Lot
R21-052-000













Portsmouth
Tax Map - Lot
0121-0001-0000
0165-0014-0000
0213-0011-0000
0214-0001-0000
0214-0002-0000
0214-0003-0000
0216-0001-0010
0216-0001-0011
0240-0002-0001
0259-0001-0000
0259-0015-0000
0278-0001-0000
0280-0003-0000
0281-0001-0000



APPENDIX C – FUNCTION VALUE ASSESSMENT FORM















**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/20/2023	
Wetland ID: GW-1 PEM1/PSS1/PFO1E,Fg/R2UB					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
 Groundwater Recharge/Discharge	Y		1, 2, 4, 7	Wetland hydrology is supported by runoff, a seasonally high-water table and Pickering Brook. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	Y	
 Floodflow Alteration	Y		1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 18	The wetland receives and retains overland sheet flow. Pickering Brook flows through the wetland.	Y	
 Fish and Shellfish Habitat	Y		3, 4, 5, 8, 10, 14, 16, 17	The wetland contains Pickering Brook a perennial stream capable of suitable fish habitat.	N	
 Sediment/Toxicant Retention	Y		1, 2, 3, 4, 5, 6, 8, 10, 12, 13, 14, 16	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention and accepts runoff from I95 North.	Y	
 Nutrient Removal	Y		1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14	Dense vegetation and poorly drained organic soils are present with ponded water and Pickering Brook.	Y	
 Production Export	Y		1, 2, 4, 5, 7, 10, 12, 13	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	Y	
 Sediment/Shoreline Stabilization	Y		1, 3, 4, 5, 7, 9, 10, 13, 15	Pickering Brook contains a well vegetated bank and is bordered by a large emergent wetland system connected to Great Bog.	Y	
 Wildlife Habitat	Y		5, 6, 7, 8, 11, 13, 18, 19, 20, 21, 23	The wetland is located in “highest ranked habitat in New Hampshire” (see Wildlife Action Plan overlay) and is part of Great Bog.	Y	
 Recreation	Y		1, 5, 7	The wetland is located within City of Portsmouth conservation land. However, there are no water-based recreational opportunities present.	N	
 Educational/Scientific Value	Y		5, 6, 11	The wetland is located on City of Portsmouth conservation land (Great Bog). However, parking suitable for school buses is not present and the wetland is located under an active distribution line adjacent to Interstate 95.	N	
 Uniqueness/Heritage	Y		4, 7, 11, 16, 17, 19, 22, 26, 27	The wetland contains a Priority Resource Area (PRA) mapped as a Floodplain Wetland Adjacent to a Tier 3+ Watercourse.	Y	
 Visual Quality/Aesthetics	Y		1, 2, 8, 12	The wetland contains emergent marsh vistas of Great Bog.	Y	
ES Endangered Species Habitat	Y		1, 2	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3651).	N	

Notes:















**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-1 PEM1/PSS1E,Fg					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
 Groundwater Recharge/Discharge	Y		1, 2, 6	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	Y	
 Floodflow Alteration	Y		3, 4, 5, 6, 7, 8, 9, 18	The wetland receives and retains overland sheet flow. Dense vegetation is present.	Y	
 Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
 Sediment/Toxicant Retention	Y		1, 2, 4, 5, 8	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention and accepts runoff from I95 North.	Y	
 Nutrient Removal	Y		2, 3, 5, 6, 7, 8, 9, 10	Dense vegetation and poorly drained organic soils are present with ponded water.	Y	
 Production Export	Y		1, 4, 5, 7, 12	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	Y	
 Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
 Wildlife Habitat	Y		5, 6, 7, 8, 11, 13, 18, 19, 23	A portion of the wetland is located in “highest ranked habitat in New Hampshire” (see Wildlife Action Plan overlay).	Y	
 Recreation		N	1, 5	There are no water-based recreational opportunities present.	N	
 Educational/Scientific Value	Y		5, 6	The wetland is located on City of Portsmouth conservation land (Great Bog). However, parking suitable for school buses is not present and the wetland is located under an active distribution line adjacent to Interstate 95 and an existing rail bed.	N	
 Uniqueness/Heritage	Y		13, 17, 19	The wetland contains a Priority Resource Area (PRA) mapped Peatland Habitat in the northeast portion of the wetland.	N	
 Visual Quality/Aesthetics		N	2, 8, 12	The wetland does not contain open water or emergent marsh vistas and is surrounded by Interstate 95 and an existing rail bed.	N	
ES Endangered Species Habitat	Y		1, 2	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes: Plants within the herbaceous layer include reed canary grass, broadleaf cattail, jewel weed, cinnamon fern, sensitive fern, reed canary grass, phragmites, and sphagnum moss. Plants within the shrub/sapling layer include meadowsweet, silky dogwood, glossy buckthorn, red maple, and gray birch.



**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-2 PEM1/PSS1E					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability		Rationale (Reference #)	Summary	Principal Yes/No	
	Y	N				
 Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
 Floodflow Alteration	Y		5, 6, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present.	N	
 Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
 Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention and accepts runoff from Gosling Road.	Y	
 Nutrient Removal	Y		3, 8, 9	Dense vegetation is present.	N	
 Production Export	Y		7, 12	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	N	
 Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
 Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area. Over size limits its capability.	N	
 Recreation		N	5	There are no water-based recreational opportunities present.	N	
 Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
 Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
 Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:















**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-3 PEM1/PSS1E					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y		5, 6, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present.	N	
Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y	
Nutrient Removal	Y		3, 8, 9	Dense vegetation is present.	N	
Production Export	Y		7, 12	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	N	
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area. Over size limits its capability.	N	
Recreation		N	5	There are no water-based recreational opportunities present.	N	
Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:



**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-4 PEM1/PSS1E					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
 Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
 Floodflow Alteration	Y		5, 6, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present.	N	
 Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
 Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y	
 Nutrient Removal	Y		3, 8, 9	Dense vegetation is present.	N	
 Production Export	Y		7, 12	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	N	
 Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
 Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area.	N	
 Recreation		N	5	There are no water-based recreational opportunities present.	N	
 Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
 Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
 Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:















**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-5 PEM1/PSS1E					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y		5, 6, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present.	N	
Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y	
Nutrient Removal	Y		3, 8, 9	Dense vegetation is present.	N	
Production Export	Y		7, 12	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	N	
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area.	N	
Recreation		N	5	There are no water-based recreational opportunities present.	N	
Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:















**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-6 PEM1/PSS1E					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
 Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
 Floodflow Alteration	Y		5, 6, 7, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present. Some ponded water is present.	N	
 Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
 Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y	
 Nutrient Removal	Y		3, 8, 9	Dense vegetation is present.	N	
 Production Export	Y		7, 12	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	N	
 Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
 Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area.	N	
 Recreation		N	5	There are no water-based recreational opportunities present.	N	
 Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
 Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
 Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:















**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-7 PEM1/PSS1E,H					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
 Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
 Floodflow Alteration	Y		5, 6, 7, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present. Some ponded water is present.	N	
 Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
 Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y	
 Nutrient Removal	Y		3, 8, 9	Dense vegetation is present.	N	
 Production Export	Y		7, 12	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	N	
 Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
 Wildlife Habitat	Y		7, 8, 18	The wetland contains a potential vernal pool and scrub-shrub cover in a commercial area.	Y	
 Recreation		N	5	There are no water-based recreational opportunities present.	N	
 Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
 Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
 Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:















**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-8 PEM1/PSS1E					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability		Rationale (Reference #)	Summary	Principal Yes/No	
	Y	N				
 Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
 Floodflow Alteration	Y		5, 6, 7, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present.	N	
 Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
 Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention. The wetland accepts stormwater from surrounding roads.	Y	
 Nutrient Removal	Y		3, 8, 9	Dense vegetation is present.	N	
 Production Export	Y		7, 12	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	N	
 Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
 Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area.	N	
 Recreation		N	5	There are no water-based recreational opportunities present.	N	
 Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
 Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
 Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:



**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-9 PEM1/PSS1Ex					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
 Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
 Floodflow Alteration	Y		5, 6, 7, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present.	N	
 Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
 Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention. The wetland accepts stormwater from surrounding roads.	Y	
 Nutrient Removal	Y		3, 8, 9	Emergent and scrub shrub cover is present.	N	
 Production Export	Y		7, 12	The wetland contains dense vegetation.	N	
 Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
 Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area.	N	
 Recreation		N	5	There are no water-based recreational opportunities present.	N	
 Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
 Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
 Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:















**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-10 PSS1Ex					GZA Personnel: Peter Petkauskos, Tracy Tarr	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y		5, 6, 7, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present.	N	
Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention. The wetland accepts stormwater from surrounding roads.	Y	
Nutrient Removal	Y		3, 8, 9	Scrub shrub cover is present.	N	
Production Export	Y		7, 12	The wetland contains dense vegetation.	N	
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area.	N	
Recreation		N	5	There are no water-based recreational opportunities present.	N	
Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:



**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-11 PSS1/PEM1Ex					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
 Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
 Floodflow Alteration	Y		5, 6, 7, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present. Pondered water is present in an existing stormwater basin.	N	
 Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
 Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention. The wetland accepts stormwater from surrounding roads and contains a stormwater basin.	Y	
 Nutrient Removal	Y		3, 8, 9	Scrub shrub and emergent cover is present.	N	
 Production Export	Y		7, 12	The wetland contains dense vegetation.	N	
 Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
 Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area.	N	
 Recreation		N	5	There are no water-based recreational opportunities present.	N	
 Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
 Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
 Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:



**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-12 and PW-13 PEM1/PSS1E					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y		5, 6, 7, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present.	N	
Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention. The wetland accepts stormwater from surrounding roads.	Y	
Nutrient Removal	Y		3, 8, 9	Scrub shrub and emergent cover is present.	N	
Production Export	Y		7, 12	The wetland contains dense vegetation.	N	
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area.	N	
Recreation		N	5	There are no water-based recreational opportunities present.	N	
Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:



**3171 & T13 STRUCTURE REPLACEMENT PROJECT
GREENLAND & PORTSMOUTH, NEW HAMPSHIRE**

File No: 04.0191410.47		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/19/2023	
Wetland ID: PW-14 PSS1/PEM1E					GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y		5, 6, 7, 9	The wetland receives and retains overland sheet flow. Dense vegetation is present.	N	
Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a watercourse or permanently flooded habitat.	N	
Sediment/Toxicant Retention	Y		1, 2	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention. The wetland accepts stormwater from surrounding roads.	Y	
Nutrient Removal	Y		3, 8, 9	Scrub shrub and emergent cover is present.	N	
Production Export	Y		7, 12	The wetland contains dense vegetation.	N	
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub cover in a commercial area.	N	
Recreation		N	5	There are no water-based recreational opportunities present.	N	
Educational/Scientific Value		N	5	The wetland is located on private property and is located under an active transmission line.	N	
Uniqueness/Heritage		N	17	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare species in the vicinity of this wetland (see NHB memo dated NHB22-3650).	N	

Notes:



APPENDIX D

NHB MEMO

NHB CORRESPONDENCE



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

To: Lindsey White, GZA GeoEnvironmental
5 Commerce Park North Suite 201
Bedford, NH 03110
lindsey.white@gza.com

From: NHB Review
NH Natural Heritage Bureau
Main Contact: Ashley Litwinenko - nhbreview@dncr.nh.gov

cc: NHFG Review

Date: 11/22/2023 (valid until 11/22/2024)

Re: DataCheck Review by NH Natural Heritage Bureau and NH Fish & Game

Permits: NHDES - Alteration of Terrain Permit, NHDES - Wetland Standard Dredge & Fill - Minor, USACE - General Permit

NHB ID: NHB23-3331

Town: Portsmouth

Location: Eversource Maintained ROW

Project Description: Eversource is proposing to replace, remove and install select utility structures within the existing and maintained 3171 and 3111 ROW.

Next Steps for Applicant:

NHB's database has been searched for records of rare species and exemplary natural communities. Please carefully read the comments and consultation requirements below.

NHB Comments: Please send NHB representative photos during the growing season, proposed plans, and proposed project timing.

NHFG Comments: Please refer to NHFG consultation requirements below. Please indicate proposed project timing.

NHB Consultation

If this NHB DataCheck letter includes records of rare plants and/or natural communities/systems, please contact NHB and provide any requested supplementary materials by emailing nhbreview@dncr.nh.gov.

If this NHB DataCheck letter DOES NOT include any records of rare plants and/or natural communities/systems, no further consultation with NHB is required.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NH Fish and Game Department Consultation

If this NHB DataCheck letter DOES NOT include ANY wildlife species records, then, based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.

If this NHB DataCheck letter includes a record for a threatened (T) or endangered (E) wildlife species, consultation with the New Hampshire Fish and Game Department under Fis 1004 may be required. To review the Fis 1000 rules (effective February 3, 2022), please go to <https://www.wildlife.nh.gov/wildlife-and-habitat/nongame-and-endangered-species/environmental-review>. All requests for consultation and submittals should be sent via email to NHFGreview@wildlife.nh.gov or can be sent by mail, and **must include the NHB DataCheck results letter number and "Fis 1004 consultation request" in the subject line.**

If the NHB DataCheck response letter does not include a threatened or endangered wildlife species but includes other wildlife species (e.g., Species of Special Concern), consultation under Fis 1004 is not required; however, some species are protected under other state laws or rules, so coordination with NH Fish & Game is highly recommended or may be required for certain permits. While some permitting processes are exempt from required consultation under Fis 1004 (e.g., *statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule*), coordination with NH Fish & Game may still be required under the rules governing those specific permitting processes, and it is recommended you contact the applicable permitting agency. For projects not requiring consultation under Fis 1004, but where additional coordination with NH Fish and Game is requested, please email NHFGreview@wildlife.nh.gov, and include the NHB DataCheck results letter number and "review request" in the email subject line.

Contact NH Fish & Game at (603) 271-0467 with questions.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB Database Records:

The following record(s) have been documented in the vicinity of the proposed project.

Please see the map and detailed information about the record(s) on the following pages.

Natural Community	State ¹	Federal	Notes
Herbaceous seepage marsh	--	--	As this wetland is strongly influenced by groundwater seepage, it could be affected by landscape alterations which modify groundwater movement or increase stormwater flow into it.
Red maple - sensitive fern swamp	--	--	These swamps are influenced by groundwater seepage and springs which moderate water fluctuations and maintain conditions favorable for the accumulation of organic matter. The primary threats are changes to the hydrology of the wetland complex, particularly raising or lowering the water levels, and increased nutrient and pollutant input carried in by stormwater runoff.
Swamp white oak basin swamp	--	--	Threats to this community include changes to the wetland's hydrology either through damming or increasing drainage. Significant increases in nutrients and pollutants from stormwater runoff could also have a deleterious effect on the wetland.
Plant species	State ¹	Federal	Notes
American reed (<i>Phragmites americanus</i>)	E	--	Threats are primarily alterations to the hydrology of the wetland, such as ditching or tidal restrictions that might affect the sheet flow of tidal waters across the intertidal flat, activities that eliminate plants, and increased input of nutrients and pollutants in storm runoff.
great bur-reed (<i>Sparganium eurycarpum</i>)	T	--	Threats to aquatic species include changes in water quality, e.g., due to pollution and stormwater runoff, and significant changes in water level.
hairy-fruited sedge (<i>Carex trichocarpa</i>)*	E	--	This species occurs in forested swamps, and would be threatened by changes to local hydrology as well as activities such as logging that opened up the canopy.
tufted yellow-loosestrife (<i>Lysimachia thyrsiflora</i>)	T	--	As a resident of peatlands, this species is susceptible to any changes to the wetland's hydrology (especially that which causes pooling), increased



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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nutrient input from stormwater runoff, and sedimentation from nearby disturbances.

Vertebrate species	State ¹	Federal	Notes
Blanding's Turtle (<i>Emydoidea blandingii</i>)	E	--	Contact the NH Fish & Game Dept (see below).

¹Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list.

An asterisk (*) indicates that the most recent report for that occurrence was 20 or more years ago.

For all animal reviews, refer to 'IMPORTANT: NHFG Consultation' section above.

Disclaimer: NHB's database can only tell you of known occurrences that have been reported to NHFG/NHB. Known occurrences are based on information gathered by qualified biologists or members of the public, reported to our offices, and verified by NHB/NHFG.

However, many areas have never been surveyed, or have only been surveyed for certain species.

NHB recommends surveys to determine what species/natural communities are present onsite.

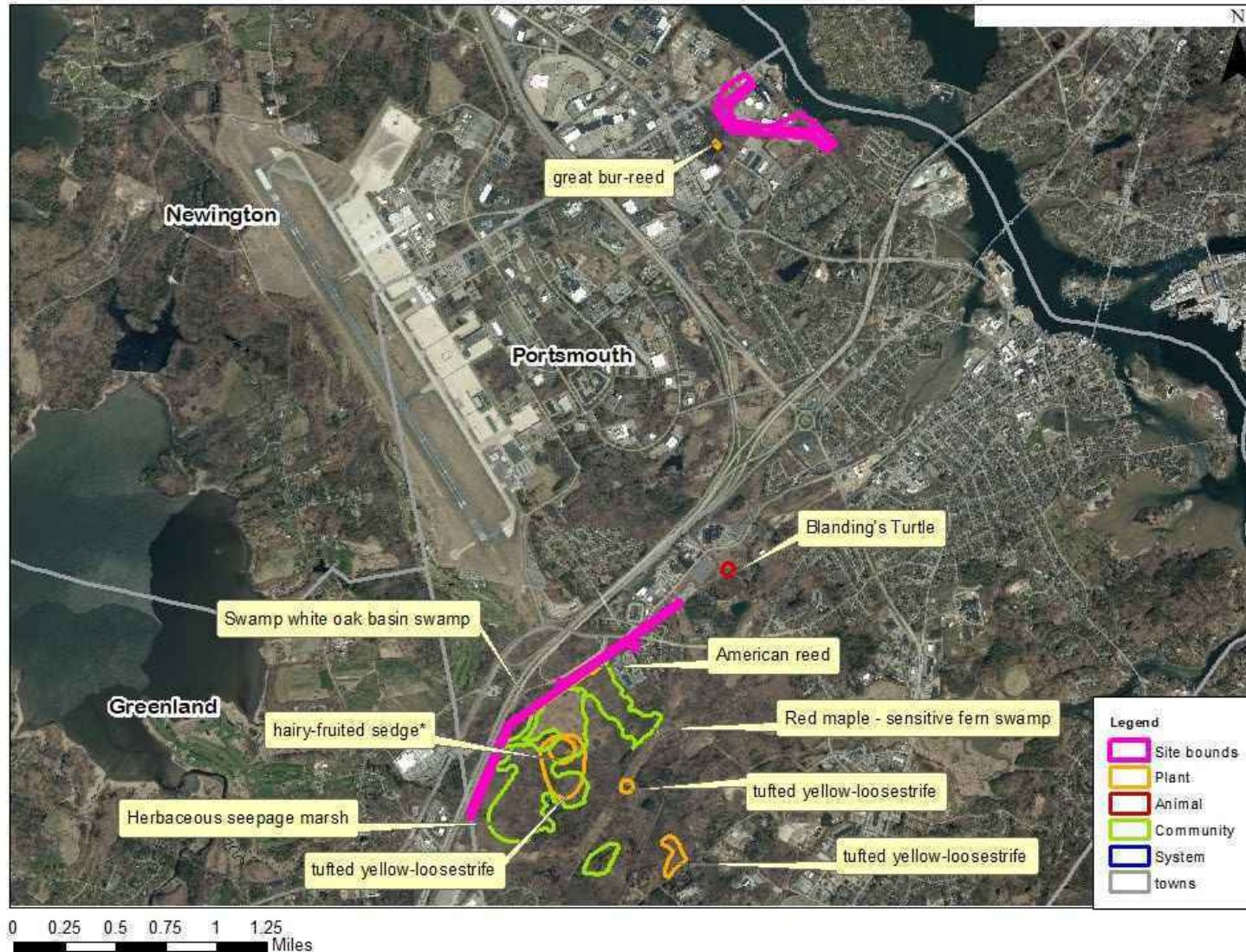


NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EOCODE:

CP00000103*001*NH

New Hampshire Natural Heritage Bureau - Community Record

Herbaceous seepage marsh

Legal Status

Federal: Not listed

State: Not listed

Conservation Status

Global: Not ranked (need more information)

State: Rare or uncommon

Description at this Location

Conservation Rank: Good quality, condition and landscape context ('B' on a scale of A-D).

Comments on Rank: 2020: A very large seepage marsh in a compromised landscape context.

Detailed Description: 2020: The community has variable composition, with patches of dense narrow-leaved cattail (*Typha angustifolia*) mixed with areas dominated by lake sedge (*Carex lacustris*). Red maple (*Acer rubrum*) saplings are frequent, along with shrub species like speckled alder (*Alnus incana* ssp. *rugosa*), highbush blueberry (*Vaccinium corymbosum*), smooth arrowwood (*Viburnum dentatum* var. *lucidum*), and meadowsweet (*Spiraea alba* var. *latifolia*). Other herb species observed include sensitive fern (*Onoclea sensibilis*), bluejoint (*Calamagrostis canadensis*), royal fern (*Osmunda regalis* var. *spectabilis*), and wrinkle-leaved goldenrod (*Solidago rugosa*). The invasive species purple loosestrife (*Lythrum salicaria*) and common reed (*Phragmites australis*) are both present at moderate levels. 2002: The northern portion of the seepage marsh is characterized by dense swards of *Carex lacustris* (lake sedge) (50%) accompanied by *Typha latifolia* (common cat-tail, 10%), *Toxicodendron radicans* (climbing poison ivy, 5-10%), *Thelypteris palustris* var. *pubescens* (marsh fern, 5-10%), *Onoclea sensibilis* (sensitive fern, 5%), and scattered sapling *Acer rubrum* (red maple, 1-5%). Numerous other herbs are present in low abundance. This area grades further south into sparse woodland areas with more red maple (20-40 ft. tall, including many dead snags), but still more marshy than swampy. A soil sample was very well decomposed muck over silty muck. 1989: The hybrid cattail *Typha x Glauca* dominates open areas with extremely abundant *Lysimachia thyrsiflora* (tufted loosestrife). State record *Carex trichocarpa* (hairy-fruited sedge) occurs at the marsh-swamp ecotone.

General Area: 2020: The community is bordered by railroad tracks to the north and I-95 to the west. There is an exemplary **swamp white oak basin swamp** adjacent to the northwest, and a **red maple - sensitive fern swamp** to the east. 2002: The seepage marsh is the dominant community in the central and western portions of Great Bog, and bounded to the west by the large seepage swamp, to the north by railroad tracks, to the NW by swamp white oak swamp, to the west by the highway and disturbed emergent marsh, and to the south by powerlines and upland areas. While surrounded by development, Great Bog is so large that it is actually one of the largest and least developed tracts of land in Portsmouth. 1989: Borders the red maple swamp forests that the Great Bog largely consists of.

General Comments: 1989: Further field work and a field form is needed.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB23-3331

EOCODE:

CP00000103*001*NH

Management --

Comments:

Location

Survey Site Name: Great Bog

Managed By: Hospital Corporation of America

County: Rockingham

Town(s): Portsmouth

Size: 135.9 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2002: Best approach to portion of site (without pulling over on I-95) is from north via the railroad tracks just south of crossing of Route 33 and I-95. Park in vicinity of Route 33 crossing of railroad tracks, at industrial complex on Griffin Road to south of Route 33 (closest but dense shrub border along railroad track) or at railroad bridge by Greenland and Borthwick Streets just north of Route 33 (easiest). Proceed SW on railroad tracks. The seepage marsh is found past the red maple swamp (open area with few trees ca. 0.45 miles from Route 33).

Dates documented

First reported: 1989-05-30

Last reported: 2020-09-09

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EOCODE:

CP0000094*015*NH

New Hampshire Natural Heritage Bureau - Community Record

Red maple - sensitive fern swamp

Legal Status

Federal: Not listed

State: Not listed

Conservation Status

Global: Not ranked (need more information)

State: Rare or uncommon

Description at this Location

Conservation Rank: Fair quality, condition and/or landscape context ('C' on a scale of A-D).

Comments on Rank: 2020: EO Rank of C+ does not meet threshold for exemplary status for this community type. 2002: This is a fairly mature and very large example in a compromised landscape context. This part of Great Bog is less influenced by hydrologic alterations than portions nearer the outlet to the west.

Detailed Description: 2020: Red maple swamp with lake sedge (*Carex lacustris*) as the dominant species in the herb layer, which also includes sensitive fern (*Onoclea sensibilis*), bluejoint (*Calamagrostis canadensis*), cinnamon fern (*Osmundastrum cinnamomeum*), tussock sedge (*Carex stricta*), skunk-cabbage (*Symplocarpus foetidus*), and spotted touch-me-not (*Impatiens capensis*). Numerous invasive species present, including glossy false buckthorn (*Frangula alnus*), multiflora rose (*Rosa multiflora*), purple loosestrife (*Lythrum salicaria*), and Asian bittersweet (*Celastrus orbiculatus*). Due to invasive infestations and heavily developed landscape, no longer considered exemplary. 2002: Two seepage swamp associations were observed at the north end of the seepage swamp system. Area 1 occurs further east (ie along border of development to the east) and has a denser *Acer rubrum* (red maple) cover (60-70%) and a sparse shrub layer. It is dominated by *Carex stricta* (tussock sedge; 35%), *Calamagrostis canadensis* (blue-joint; 15-20%), and *Onoclea sensibilis* (sensitive fern), with lesser quantities of *Carex lacustris* (lake sedge) and *Toxicodendron radicans* (climbing poison ivy). Area 2 is a classic red maple/lake sedge seepage swamp, with all the species of Area 1 present in lower abundance, less dense red maple (40%), a dominant layer of *Carex lacustris* (lake sedge; 60%) and sensitive fern (5%), and a denser shrub layer consisting mostly of *Vaccinium corymbosum* (highbush blueberry; 30%) and *Ilex verticillata* (winterberry; 5%). *Ulmus americana* (American elm) is occasional in the subcanopy. 1989: *Acer rubrum* (red maple) dominates. Understory dominants include *Carex stricta* (tussock sedge), *Alnus serrulata* (smooth alder), *Onoclea sensibilis* (sensitive fern), *Symplocarpus foetidus* (skunk cabbage). *Lysimachia thysiflora* (tufted loosestrife) also occurs here.

General Area: 2020: Community is bordered by railroad tracks to the north and commercial development to the east. Adjacent to exemplary **herbaceous seepage marsh** to the west. 2002: The seepage swamp is the dominant community in eastern portion of Great Bog, and bounded to the west by the large seepage marsh, to the north by railroad tracks, to the south by powerlines and upland. While surrounded by development, Great Bog is so large that it is actually one of the largest and least developed tracts of land in Portsmouth.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EOCODE:

CP00000094*015*NH

General Comments: 1989: Further field work needed.

Management --

Comments:

Location

Survey Site Name: Great Bog

Managed By: Griffin

County: Rockingham

Town(s): Portsmouth

Size: 39.2 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2002: Best approach to portion of site (without pulling over on I-95) is from north via the railroad tracks just south of crossing of Route 33 and I-95. Park in vicinity of Route 33 crossing of railroad tracks, at industrial complex on Griffin Road to south of Route 33 (closest but dense shrub border along railroad track) or at railroad bridge by Greenland and Borthwick Streets just north of Route 33 (easiest). Proceed SW on railroad tracks. The seepage marsh is found past the red maple swamp (open area with few trees ca. 0.45 miles from Route 33).

Dates documented

First reported: 1989-05-30

Last reported: 2020-09-09

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EOCODE:

CP00000160*001*NH

New Hampshire Natural Heritage Bureau - Community Record

Swamp white oak basin swamp

Legal Status

Federal: Not listed

State: Not listed

Conservation Status

Global: Not ranked (need more information)

State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Fair quality, condition and/or landscape context ('C' on a scale of A-D).

Comments on Rank: 2002: 4-5 acres dominated by swamp white oak, an additional 8-10 acres where it is codominant, and another several acres predicted from air photos (not visited). Mature and fair to good sized example, compromised by proximity of highway, evidence of old ditching at south end of swamp, and a make-shift blue-tarp shelter/teepee.

Detailed Description: 2020: Canopy co-dominated by swamp white oak (*Quercus bicolor*) and red maple (*Acer rubrum*), with average diameter of 12ö dbh. American hornbeam (*Carpinus caroliniana* ssp. *virginiana*) frequent in the understory. Sensitive fern (*Onoclea sensibilis*) is dominant in the herbaceous layer, with other associates including lady fern (*Athyrium angustum*), American hog-peanut (*Amphicarpaea bracteata*), wood horsetail (*Equisetum sylvaticum*), and star sedge (*Carex echinata*). Homeless encampment observed during visit. 2002: This is a nice, mature example of a swamp white oak swamp. About 4-5 acres (eastern half of Area 1) are dominated by *Quercus bicolor* (swamp white oak, 50-60%), with *Acer rubrum* (red maple) codominant (ca. 15%), and *Carpinus caroliniana* var. *virginiana* (musclewood) contributing ca. 25% cover in the understory. The herb layer is sparse, excepting patches of *Onoclea sensibilis* (sensitive fern, ca. 25%), a few other herbs, and *Toxicodendron radicans* (climbing poison ivy). The exotic *Elaeagnus umbellata* (autumn olive) occurs in low abundance (<1%). The western half of Area 1, closer to the railroad tracks and highway, is somewhat drier and swamp white oak is only codominant (ca. 20%) cover along with similar amounts of *Pinus strobus* (white pine), *Betula lenta* (black birch), red maple, and *Tsuga canadensis* (hemlock). As in other swamp white oak swamps, the soil here is a silt loam. Several more acres of swamp white oak swamp (Area 2) are predicted from air photos to occur to the SE beyond a band of red maple swamp.

General Area: 2020: The community is bordered to the north by active railroad tracks and to the west by I-95. Most of the rest of community is bordered by an exemplary **herbaceous seepage marsh**. 2002: The swamp white oak swamp is bound by railroad tracks to the north, Rte. 95 to the west, and Great Bog to the south and east. There is a band of red maple swamp between swamp white oak patches at Area 1 and Area 2, with the large seepage marsh beyond to the east and south that dominate much of Great Bog.

General Comments: 2002: While compromised by proximity to highway, the swamp may be forever protected from further development by being surrounded by highway, railroad track, and a huge wetland.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EOCODE:

CP00000160*001*NH

Management --

Comments:

Location

Survey Site Name: Great Bog

Managed By: City of Portsmouth Land

County: Rockingham

Town(s): Portsmouth

Size: 11.0 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2002: Best approach to portion of site (without pulling over on I-95) is from north via the railroad tracks just south of crossing of Route 33 and I-95. Park in vicinity of Route 33 crossing of railroad tracks, at industrial complex on Griffin Road to south of Route 33 (closest but dense shrub border along railroad track) or at railroad bridge by Greenland and Borthwick Streets just north of Route 33 (easiest). Proceed SW on railroad tracks. The seepage swamp is located to the south just past the industrial complex (0.25 miles from Route 33); the seepage marsh is found further along past the seepage swamp (open area with few trees ca. 0.45 miles from Route 33); and the swamp white oak swamp is found where trees pick up again south of the RR tracks closer to the highway crossing (0.7 miles from Route 33).

Dates documented

First reported: 2002-09-27

Last reported: 2020-09-09

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EPCODE:

PMPOA4V011*003*NH

New Hampshire Natural Heritage Bureau - Plant Record

American reed (*Phragmites americanus*)

Legal Status

Federal: Not listed
State: Listed Endangered

Conservation Status

Global: Demonstrably widespread, abundant, and secure
State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2020: 300-500 stems, approximately 5% in fruit. Plants are growing on south-facing embankment of railroad tracks at edge of swamp in a band roughly 50 meters long.

General Area: 2020: South-facing slope below railroad tracks at edge of **red maple - sensitive fern swamp**. Associates include bluejoint (*Calamagrostis canadensis*), wrinkle-leaved goldenrod (*Solidago rugosa*), meadowsweet (*Spiraea alba* var. *latifolia*), glossy false buckthorn (*Frangula alnus*), northern blackberry (*Rubus flagellaris*), sensitive fern (*Onoclea sensibilis*), lake sedge (*Carex lacustris*), red maple (*Acer rubrum*), Asian bittersweet (*Celastrus orbiculatus*), and autumn-olive (*Elaeagnus umbellata* var. *parvifolia*). A population of common reed (*Phragmites australis*) begins around 20 meters east of this patch of American reed.

General Comments: --
Management: --
Comments:

Location

Survey Site Name: Great Bog
Managed By:

County: Rockingham
Town(s): Portsmouth
Size: 1.0 acres
Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2020: Best approach to portion of site (without pulling over on I-95) is from north via the railroad tracks just south of crossing of Route 33 and I-95. Park in vicinity of Route 33 crossing of railroad tracks, at industrial complex on Griffin Road to south of Route 33 (closest but dense shrub border along railroad track) or at railroad bridge by Greenland and Borthwick Streets just north of Route 33 (easiest). Proceed SW on railroad tracks. The American reed is on the south-facing embankment of the railroad tracks at the edge of the swamp approximately 0.25 miles from Route 33.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EOCODE:

PMPOA4V011*003*NH

Dates documented

First reported: 2020-09-09

Last reported: 2020-09-09

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EOCODE:

PMSPA01050*026*NH

New Hampshire Natural Heritage Bureau - Plant Record

great bur-reed (*Sparganium eurycarpum*)

Legal Status

Federal: Not listed
State: Listed Threatened

Conservation Status

Global: Demonstrably widespread, abundant, and secure
State: Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2022: More than 1,000 plants occurring densely in a large area, many bearing mature fruit.

General Area: 2022: Plants occur in a marsh along a beaver-impounded drainage surrounded by development. The marsh they are in is in good health and the population is robust spread over a large area. In the shallow marsh, associated species include broad-leaved cattail (*Typha latifolia*), water willow (*Decodon verticillatus*), and the invasive plant purple loosestrife (*Lythrum salicaria*). In deeper parts of the marsh, the plants form a monoculture where no other plant species are present.

General Comments: --

Management Comments: 2022: The invasive plant purple loostrife is present

Location

Survey Site Name: Oriental Gardens
Managed By:

County: Rockingham

Town(s): Portsmouth

Size: .2 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2022: Plants are located in a marsh along the beaver-impounded drainage behind oriental gardens. Access is from a path from the northwestern corner of Oriental Gardens. A culvert crosses the stream and the marsh is on the far side of the culvert.

Dates documented

First reported: 2022-07-19

Last reported: 2022-07-19

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EOCODE:

PMCP03DY0*001*NH

New Hampshire Natural Heritage Bureau - Plant Record

hairy-fruited sedge (*Carex trichocarpa*)

Legal Status

Federal: Not listed
State: Listed Endangered

Conservation Status

Global: Apparently secure but with cause for concern
State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Fair quality, condition and/or landscape context ('C' on a scale of A-D).
Comments on Rank: Small population, needs field work.

Detailed Description: 2004: Searched for but not found. 2003: Searched for but not found. 2002: Searched for but not found. 1989: 50-100 budding plants. Rawinski specimen #9001 temporarily in personal herbarium.

General Area: 1989: Red maple swamp. With *Carex rostrata* (beaked sedge), *Acer rubrum* (red maple), *Cornus amomum* (silky dogwood), and *Typha latifolia* (common cat-tail).

General Comments: 2003: The surveyor (Jeremy Bell) has learned to ID this plant without flower or seed, so would like to go back next year to look again. 2002: General reported area was searched, but is all swamp and extremely challenging to cover. Also, original topographic map shows polygons covering extensive area - much of this was searched, but no plants were found. Unknown date: More inventory needed.

Management Comments: 2004: Lots of invasives.

Location

Survey Site Name: Great Bog
Managed By: City of Portsmouth Land

County: Rockingham
Town(s): Portsmouth
Size: 7.7 acres Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: Great Bog. South of railroad, west and north of powerline right-of-way.

Dates documented

First reported: 1989-05-30 Last reported: 1989-05-30

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EPCODE:

PDPRI07050*003*NH

New Hampshire Natural Heritage Bureau - Plant Record

tufted yellow-loosestrife (*Lysimachia thyrsiflora*)

Legal Status

Federal: Not listed
State: Listed Threatened

Conservation Status

Global: Demonstrably widespread, abundant, and secure
State: Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Excellent quality, condition and landscape context ('A' on a scale of A-D).
Comments on Rank: 1989: New Hampshire's best population.

Detailed Description: 2023: Area 1: Searched for but not found in ROW. 2018: Area 4: Species observed having approximately 4% cover in 7 of 59 plots. Observed frequently across site outside of plots. 2013: Area 4: Species observed having approximately 1% cover in 2 of 59 plots. 2010: Searched for but not found. 2004: Searched for but not found. 2002: Searched for but not found. 1989: Thousands of budding plants. 1983: 2 small populations, 11-50 individuals. Specimen collected.

General Area: 2018: Area 4: Drainage marsh formerly dominated by common reed (*Phragmites australis*). After invasive control activities, *Phragmites* was reduced to very low abundance. Marsh now dominated by broad-leaved cattail (*Typha latifolia*), along with some narrow-leaved cattail (*Typha angustifolia*) and hybrid cattail. Purple loosestrife (*Lythrum salicaria*) also frequent at lower abundance. Other frequent species include tussock sedge (*Carex stricta*), meadowsweet (*Spiraea alba* var. *latifolia*), royal fern (*Osmunda regalis* var. *spectabilis*), and woolly bulrush (*Scirpus cyperinus*). 1989: SNE seepage marsh. Also in red maple swamp. With *Carex rostrata* (beaked sedge), *Acer rubrum* (red maple), *Typha latifolia* (common cat-tail), and *Osmunda cinnamomea* (cinnamon fern). 1983: Where a powerline crosses a branch of a brook.

General Comments: 1989: Occurs in 2 areas of seepage marsh.

Management Comments: 2018: Area 4: This site was the subject of an intensive invasive species management project to reduce the presence of common reed (*Phragmites australis*), which completely dominated the marsh. Use of herbicides successfully reduces *Phragmites* to low abundance. *Galerucella* beetles were also released to try and control purple loosestrife (*Lythrum salicaria*), with some success. 2004: Lots of exotic species present.

Location

Survey Site Name: Great Bog
Managed By: Griffin

County: Rockingham
Town(s): Portsmouth
Size: 53.0 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EOCODE:

PDPRI07050*003*NH

Directions: Great Bog. South and east of crook in powerline right-of-way. 2019: Area 4: Banfield Road conservation properties behind Apostolic Church, 500 Banfield Road, Portsmouth. 1989: Areas 2 and 3: Park at railroad crossing of Banfield Road. Access via dirt road heading NW from Banfield Road about 0.2 miles north of the railroad (much of this road was flooded to 18 inches). 1983: Area 1: Great Bog. At crossing of branch of Pickering Brook and the electric line (brook crossing of utility line and service lane).

Dates documented

First reported: 1983-06-16

Last reported: 2018-10

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3331

EOCODE:

ARAAD04010*632*NH

New Hampshire Natural Heritage Bureau - Animal Record

Blanding's Turtle (*Emydoidea blandingii*)

Legal Status

Federal: Not listed
State: Listed Endangered

Conservation Status

Global: Apparently secure but with cause for concern
State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2011: Area 12906: 1 adult observed.

General Area: 2011: Area 12906: Marsh along railroad tracks.

General Comments: --

Management --

Comments:

Location

Survey Site Name: Meadowbrook
Managed By: Hospital Corporation of America

County: Rockingham

Town(s): Portsmouth

Size: 1.9 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2011: Area 12906: Marsh adjacent to 333 Borthwick Avenue, behind Portsmouth Regional Hospital.

Dates documented

First reported: 2011-05-07

Last reported: 2011-05-07

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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To: Lindsey White, GZA GeoEnvironmental
5 Commerce Park North Suite 201
Bedford, NH 03110
lindsey.white@gza.com

From: NHB Review
NH Natural Heritage Bureau
Main Contact: Ashley Litwinenko - nhbreview@dncr.nh.gov

cc:

Date: 11/22/2023 (valid until 11/22/2024)

Re: DataCheck Review by NH Natural Heritage Bureau and NH Fish & Game

Permits: NHDES - Alteration of Terrain Permit, NHDES - Wetland Standard Dredge & Fill - Minor, USACE - General Permit, USEPA - Stormwater Pollution Prevention

NHB ID: NHB23-3332

Town: Greenland

Location: Eversource Maintained ROW

Project Description: Eversource is proposing to replace select utility structures within the existing and maintained 3111 ROW.

Next Steps for Applicant:

NHB's database has been searched for records of rare species and exemplary natural communities. Please carefully read the comments and consultation requirements below.

NHB Comments: Please send NHB representative photos during the growing season, proposed plans, and proposed project timing.

NHFG Comments: No comments at this time.

NHB Consultation

If this NHB DataCheck letter includes records of rare plants and/or natural communities/systems, please contact NHB and provide any requested supplementary materials by emailing nhbreview@dncr.nh.gov.

If this NHB DataCheck letter DOES NOT include any records of rare plants and/or natural communities/systems, no further consultation with NHB is required.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NH Fish and Game Department Consultation

If this NHB DataCheck letter DOES NOT include ANY wildlife species records, then, based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.

If this NHB DataCheck letter includes a record for a threatened (T) or endangered (E) wildlife species, consultation with the New Hampshire Fish and Game Department under Fis 1004 may be required. To review the Fis 1000 rules (effective February 3, 2022), please go to <https://www.wildlife.nh.gov/wildlife-and-habitat/nongame-and-endangered-species/environmental-review>. All requests for consultation and submittals should be sent via email to NHFGreview@wildlife.nh.gov or can be sent by mail, and **must include the NHB DataCheck results letter number and "Fis 1004 consultation request" in the subject line.**

If the NHB DataCheck response letter does not include a threatened or endangered wildlife species but includes other wildlife species (e.g., Species of Special Concern), consultation under Fis 1004 is not required; however, some species are protected under other state laws or rules, so coordination with NH Fish & Game is highly recommended or may be required for certain permits. While some permitting processes are exempt from required consultation under Fis 1004 (e.g., *statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule*), coordination with NH Fish & Game may still be required under the rules governing those specific permitting processes, and it is recommended you contact the applicable permitting agency. For projects not requiring consultation under Fis 1004, but where additional coordination with NH Fish and Game is requested, please email NHFGreview@wildlife.nh.gov, and include the NHB DataCheck results letter number and "review request" in the email subject line.

Contact NH Fish & Game at (603) 271-0467 with questions.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB Database Records:

The following record(s) have been documented in the vicinity of the proposed project. Please see the map and detailed information about the record(s) on the following pages.

Natural Community	State ¹	Federal	Notes
Herbaceous seepage marsh	--	--	As this wetland is strongly influenced by groundwater seepage, it could be affected by landscape alterations which modify groundwater movement or increase stormwater flow into it.
Swamp white oak basin swamp	--	--	Threats to this community include changes to the wetland's hydrology either through damming or increasing drainage. Significant increases in nutrients and pollutants from stormwater runoff could also have a deleterious effect on the wetland.
Plant species	State ¹	Federal	Notes
hairy-fruited sedge (<i>Carex trichocarpa</i>)*	E	--	This species occurs in forested swamps, and would be threatened by changes to local hydrology as well as activities such as logging that opened up the canopy.
tufted yellow-loosestrife (<i>Lysimachia thyrsiflora</i>)	T	--	As a resident of peatlands, this species is susceptible to any changes to the wetland's hydrology (especially that which causes pooling), increased nutrient input from stormwater runoff, and sedimentation from nearby disturbances.

¹Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list.

An asterisk (*) indicates that the most recent report for that occurrence was 20 or more years ago.

Disclaimer: NHB's database can only tell you of known occurrences that have been reported to NHFG/NHB. Known occurrences are based on information gathered by qualified biologists or members of the public, reported to our offices, and verified by NHB/NHFG.

However, many areas have never been surveyed, or have only been surveyed for certain species. NHB recommends surveys to determine what species/natural communities are present onsite.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3332



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3332

EOCODE:

CP00000103*001*NH

New Hampshire Natural Heritage Bureau - Community Record

Herbaceous seepage marsh

Legal Status

Federal: Not listed

State: Not listed

Conservation Status

Global: Not ranked (need more information)

State: Rare or uncommon

Description at this Location

Conservation Rank: Good quality, condition and landscape context ('B' on a scale of A-D).

Comments on Rank: 2020: A very large seepage marsh in a compromised landscape context.

Detailed Description: 2020: The community has variable composition, with patches of dense narrow-leaved cattail (*Typha angustifolia*) mixed with areas dominated by lake sedge (*Carex lacustris*). Red maple (*Acer rubrum*) saplings are frequent, along with shrub species like speckled alder (*Alnus incana* ssp. *rugosa*), highbush blueberry (*Vaccinium corymbosum*), smooth arrowwood (*Viburnum dentatum* var. *lucidum*), and meadowsweet (*Spiraea alba* var. *latifolia*). Other herb species observed include sensitive fern (*Onoclea sensibilis*), bluejoint (*Calamagrostis canadensis*), royal fern (*Osmunda regalis* var. *spectabilis*), and wrinkle-leaved goldenrod (*Solidago rugosa*). The invasive species purple loosestrife (*Lythrum salicaria*) and common reed (*Phragmites australis*) are both present at moderate levels. 2002: The northern portion of the seepage marsh is characterized by dense swards of *Carex lacustris* (lake sedge) (50%) accompanied by *Typha latifolia* (common cat-tail, 10%), *Toxicodendron radicans* (climbing poison ivy, 5-10%), *Thelypteris palustris* var. *pubescens* (marsh fern, 5-10%), *Onoclea sensibilis* (sensitive fern, 5%), and scattered sapling *Acer rubrum* (red maple, 1-5%). Numerous other herbs are present in low abundance. This area grades further south into sparse woodland areas with more red maple (20-40 ft. tall, including many dead snags), but still more marshy than swampy. A soil sample was very well decomposed muck over silty muck. 1989: The hybrid cattail *Typha x Glauca* dominates open areas with extremely abundant *Lysimachia thyrsiflora* (tufted loosestrife). State record *Carex trichocarpa* (hairy-fruited sedge) occurs at the marsh-swamp ecotone.

General Area: 2020: The community is bordered by railroad tracks to the north and I-95 to the west. There is an exemplary **swamp white oak basin swamp** adjacent to the northwest, and a **red maple - sensitive fern swamp** to the east. 2002: The seepage marsh is the dominant community in the central and western portions of Great Bog, and bounded to the west by the large seepage swamp, to the north by railroad tracks, to the NW by swamp white oak swamp, to the west by the highway and disturbed emergent marsh, and to the south by powerlines and upland areas. While surrounded by development, Great Bog is so large that it is actually one of the largest and least developed tracts of land in Portsmouth. 1989: Borders the red maple swamp forests that the Great Bog largely consists of.

General Comments: 1989: Further field work and a field form is needed.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3332

EOCODE:

CP00000103*001*NH

Management --

Comments:

Location

Survey Site Name: Great Bog

Managed By: Hospital Corporation of America

County: Rockingham

Town(s): Portsmouth

Size: 135.9 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2002: Best approach to portion of site (without pulling over on I-95) is from north via the railroad tracks just south of crossing of Route 33 and I-95. Park in vicinity of Route 33 crossing of railroad tracks, at industrial complex on Griffin Road to south of Route 33 (closest but dense shrub border along railroad track) or at railroad bridge by Greenland and Borthwick Streets just north of Route 33 (easiest). Proceed SW on railroad tracks. The seepage marsh is found past the red maple swamp (open area with few trees ca. 0.45 miles from Route 33).

Dates documented

First reported: 1989-05-30

Last reported: 2020-09-09

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3332

EOCODE: CP00000160*001*NH

New Hampshire Natural Heritage Bureau - Community Record

Swamp white oak basin swamp

Legal Status

Federal: Not listed

State: Not listed

Conservation Status

Global: Not ranked (need more information)

State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Fair quality, condition and/or landscape context ('C' on a scale of A-D).

Comments on Rank: 2002: 4-5 acres dominated by swamp white oak, an additional 8-10 acres where it is codominant, and another several acres predicted from air photos (not visited). Mature and fair to good sized example, compromised by proximity of highway, evidence of old ditching at south end of swamp, and a make-shift blue-tarp shelter/teepee.

Detailed Description: 2020: Canopy co-dominated by swamp white oak (*Quercus bicolor*) and red maple (*Acer rubrum*), with average diameter of 12ö dbh. American hornbeam (*Carpinus caroliniana* ssp. *virginiana*) frequent in the understory. Sensitive fern (*Onoclea sensibilis*) is dominant in the herbaceous layer, with other associates including lady fern (*Athyrium angustum*), American hog-peanut (*Amphicarpaea bracteata*), wood horsetail (*Equisetum sylvaticum*), and star sedge (*Carex echinata*). Homeless encampment observed during visit. 2002: This is a nice, mature example of a swamp white oak swamp. About 4-5 acres (eastern half of Area 1) are dominated by *Quercus bicolor* (swamp white oak, 50-60%), with *Acer rubrum* (red maple) codominant (ca. 15%), and *Carpinus caroliniana* var. *virginiana* (musclewood) contributing ca. 25% cover in the understory. The herb layer is sparse, excepting patches of *Onoclea sensibilis* (sensitive fern, ca. 25%), a few other herbs, and *Toxicodendron radicans* (climbing poison ivy). The exotic *Elaeagnus umbellata* (autumn olive) occurs in low abundance (<1%). The western half of Area 1, closer to the railroad tracks and highway, is somewhat drier and swamp white oak is only codominant (ca. 20%) cover along with similar amounts of *Pinus strobus* (white pine), *Betula lenta* (black birch), red maple, and *Tsuga canadensis* (hemlock). As in other swamp white oak swamps, the soil here is a silt loam. Several more acres of swamp white oak swamp (Area 2) are predicted from air photos to occur to the SE beyond a band of red maple swamp.

General Area: 2020: The community is bordered to the north by active railroad tracks and to the west by I-95. Most of the rest of community is bordered by an exemplary **herbaceous seepage marsh**. 2002: The swamp white oak swamp is bound by railroad tracks to the north, Rte. 95 to the west, and Great Bog to the south and east. There is a band of red maple swamp between swamp white oak patches at Area 1 and Area 2, with the large seepage marsh beyond to the east and south that dominate much of Great Bog.

General Comments: 2002: While compromised by proximity to highway, the swamp may be forever protected from further development by being surrounded by highway, railroad track, and a huge wetland.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3332

EOCODE: CP00000160*001*NH

Management --

Comments:

Location

Survey Site Name: Great Bog

Managed By: City of Portsmouth Land

County: Rockingham

Town(s): Portsmouth

Size: 11.0 acres Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2002: Best approach to portion of site (without pulling over on I-95) is from north via the railroad tracks just south of crossing of Route 33 and I-95. Park in vicinity of Route 33 crossing of railroad tracks, at industrial complex on Griffin Road to south of Route 33 (closest but dense shrub border along railroad track) or at railroad bridge by Greenland and Borthwick Streets just north of Route 33 (easiest). Proceed SW on railroad tracks. The seepage swamp is located to the south just past the industrial complex (0.25 miles from Route 33); the seepage marsh is found further along past the seepage swamp (open area with few trees ca. 0.45 miles from Route 33); and the swamp white oak swamp is found where trees pick up again south of the RR tracks closer to the highway crossing (0.7 miles from Route 33).

Dates documented

First reported: 2002-09-27

Last reported: 2020-09-09

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3332

EOCODE:

PMCP03DY0*001*NH

New Hampshire Natural Heritage Bureau - Plant Record

hairy-fruited sedge (*Carex trichocarpa*)

Legal Status

Federal: Not listed
State: Listed Endangered

Conservation Status

Global: Apparently secure but with cause for concern
State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Fair quality, condition and/or landscape context ('C' on a scale of A-D).
Comments on Rank: Small population, needs field work.

Detailed Description: 2004: Searched for but not found. 2003: Searched for but not found. 2002: Searched for but not found. 1989: 50-100 budding plants. Rawinski specimen #9001 temporarily in personal herbarium.

General Area: 1989: Red maple swamp. With *Carex rostrata* (beaked sedge), *Acer rubrum* (red maple), *Cornus amomum* (silky dogwood), and *Typha latifolia* (common cat-tail).

General Comments: 2003: The surveyor (Jeremy Bell) has learned to ID this plant without flower or seed, so would like to go back next year to look again. 2002: General reported area was searched, but is all swamp and extremely challenging to cover. Also, original topographic map shows polygons covering extensive area - much of this was searched, but no plants were found. Unknown date: More inventory needed.

Management Comments: 2004: Lots of invasives.

Location

Survey Site Name: Great Bog
Managed By: City of Portsmouth Land

County: Rockingham
Town(s): Portsmouth
Size: 7.7 acres Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: Great Bog. South of railroad, west and north of powerline right-of-way.

Dates documented

First reported: 1989-05-30 Last reported: 1989-05-30

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3332

EPCODE:

PDPRI07050*003*NH

New Hampshire Natural Heritage Bureau - Plant Record

tufted yellow-loosestrife (*Lysimachia thyrsiflora*)

Legal Status

Federal: Not listed
State: Listed Threatened

Conservation Status

Global: Demonstrably widespread, abundant, and secure
State: Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Excellent quality, condition and landscape context ('A' on a scale of A-D).
Comments on Rank: 1989: New Hampshire's best population.

Detailed Description: 2023: Area 1: Searched for but not found in ROW. 2018: Area 4: Species observed having approximately 4% cover in 7 of 59 plots. Observed frequently across site outside of plots. 2013: Area 4: Species observed having approximately 1% cover in 2 of 59 plots. 2010: Searched for but not found. 2004: Searched for but not found. 2002: Searched for but not found. 1989: Thousands of budding plants. 1983: 2 small populations, 11-50 individuals. Specimen collected.

General Area: 2018: Area 4: Drainage marsh formerly dominated by common reed (*Phragmites australis*). After invasive control activities, *Phragmites* was reduced to very low abundance. Marsh now dominated by broad-leaved cattail (*Typha latifolia*), along with some narrow-leaved cattail (*Typha angustifolia*) and hybrid cattail. Purple loosestrife (*Lythrum salicaria*) also frequent at lower abundance. Other frequent species include tussock sedge (*Carex stricta*), meadowsweet (*Spiraea alba* var. *latifolia*), royal fern (*Osmunda regalis* var. *spectabilis*), and woolly bulrush (*Scirpus cyperinus*). 1989: SNE seepage marsh. Also in red maple swamp. With *Carex rostrata* (beaked sedge), *Acer rubrum* (red maple), *Typha latifolia* (common cat-tail), and *Osmunda cinnamomea* (cinnamon fern). 1983: Where a powerline crosses a branch of a brook.

General Comments: 1989: Occurs in 2 areas of seepage marsh.

Management Comments: 2018: Area 4: This site was the subject of an intensive invasive species management project to reduce the presence of common reed (*Phragmites australis*), which completely dominated the marsh. Use of herbicides successfully reduces *Phragmites* to low abundance. *Galerucella* beetles were also released to try and control purple loosestrife (*Lythrum salicaria*), with some success. 2004: Lots of exotic species present.

Location

Survey Site Name: Great Bog
Managed By: Griffin

County: Rockingham
Town(s): Portsmouth
Size: 53.0 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB23-3332

EOCODE:

PDPRI07050*003*NH

Directions: Great Bog. South and east of crook in powerline right-of-way. 2019: Area 4: Banfield Road conservation properties behind Apostolic Church, 500 Banfield Road, Portsmouth. 1989: Areas 2 and 3: Park at railroad crossing of Banfield Road. Access via dirt road heading NW from Banfield Road about 0.2 miles north of the railroad (much of this road was flooded to 18 inches). 1983: Area 1: Great Bog. At crossing of branch of Pickering Brook and the electric line (brook crossing of utility line and service lane).

Dates documented

First reported: 1983-06-16

Last reported: 2018-10



APPENDIX E – IPAC REPORT

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Rockingham County, New Hampshire



Local office

New England Ecological Services Field Office

☎ (603) 223-2541

📅 (603) 223-0104

70 Commercial Street, Suite 300
Concord, NH 03301-5094

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045	Endangered

Birds

NAME	STATUS
Roseate Tern <i>Sterna dougallii dougallii</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2083	Endangered

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below.

Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

There are bald and/or golden eagles in your project area.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON

Bald Eagle *Haliaeetus leucocephalus*

Breeds Oct 15 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read

["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

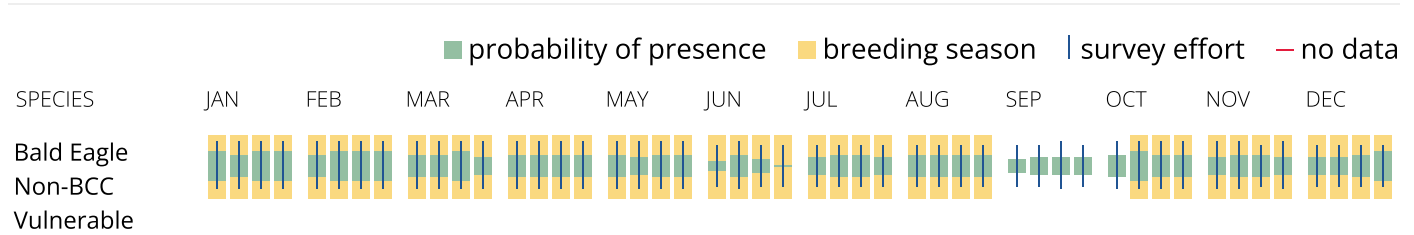
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply). To see a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the [Eagle Act](#) should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON

American Oystercatcher <i>Haematopus palliatus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8935	Breeds Apr 15 to Aug 31
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Oct 15 to Aug 31
Black Skimmer <i>Rynchops niger</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/5234	Breeds May 20 to Sep 15
Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Blue-winged Warbler <i>Vermivora pinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 1 to Jun 30
Bobolink <i>Dolichonyx oryzivorus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Canada Warbler <i>Cardellina canadensis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25
Gull-billed Tern <i>Gelochelidon nilotica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9501	Breeds May 1 to Jul 31

<p>Hudsonian Godwit <i>Limosa haemastica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds elsewhere
<p>Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679</p>	Breeds elsewhere
<p>Pectoral Sandpiper <i>Calidris melanotos</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds elsewhere
<p>Prairie Warbler <i>Dendroica discolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 1 to Jul 31
<p>Prothonotary Warbler <i>Protonotaria citrea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds Apr 1 to Jul 31
<p>Purple Sandpiper <i>Calidris maritima</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds elsewhere
<p>Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 10 to Sep 10
<p>Ruddy Turnstone <i>Arenaria interpres morinella</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	Breeds elsewhere
<p>Rusty Blackbird <i>Euphagus carolinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	Breeds elsewhere
<p>Saltmarsh Sparrow <i>Ammodramus caudacutus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9719</p>	Breeds May 15 to Sep 5

Short-billed Dowitcher *Limnodromus griseus*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9480>

Willet *Tringa semipalmata*

Breeds Apr 20 to Aug 5

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Wood Thrush *Hyllocichla mustelina*

Breeds May 10 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

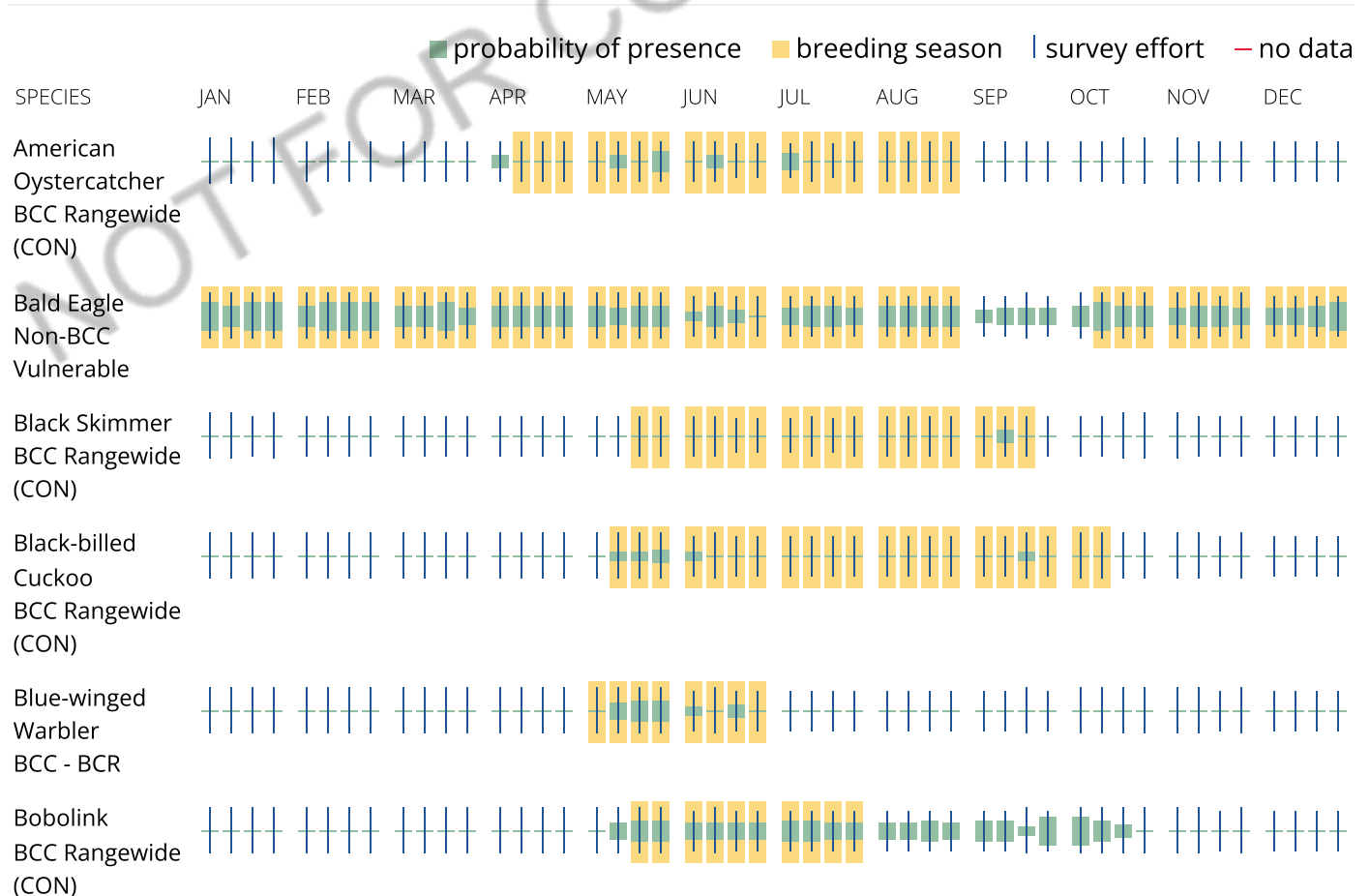
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

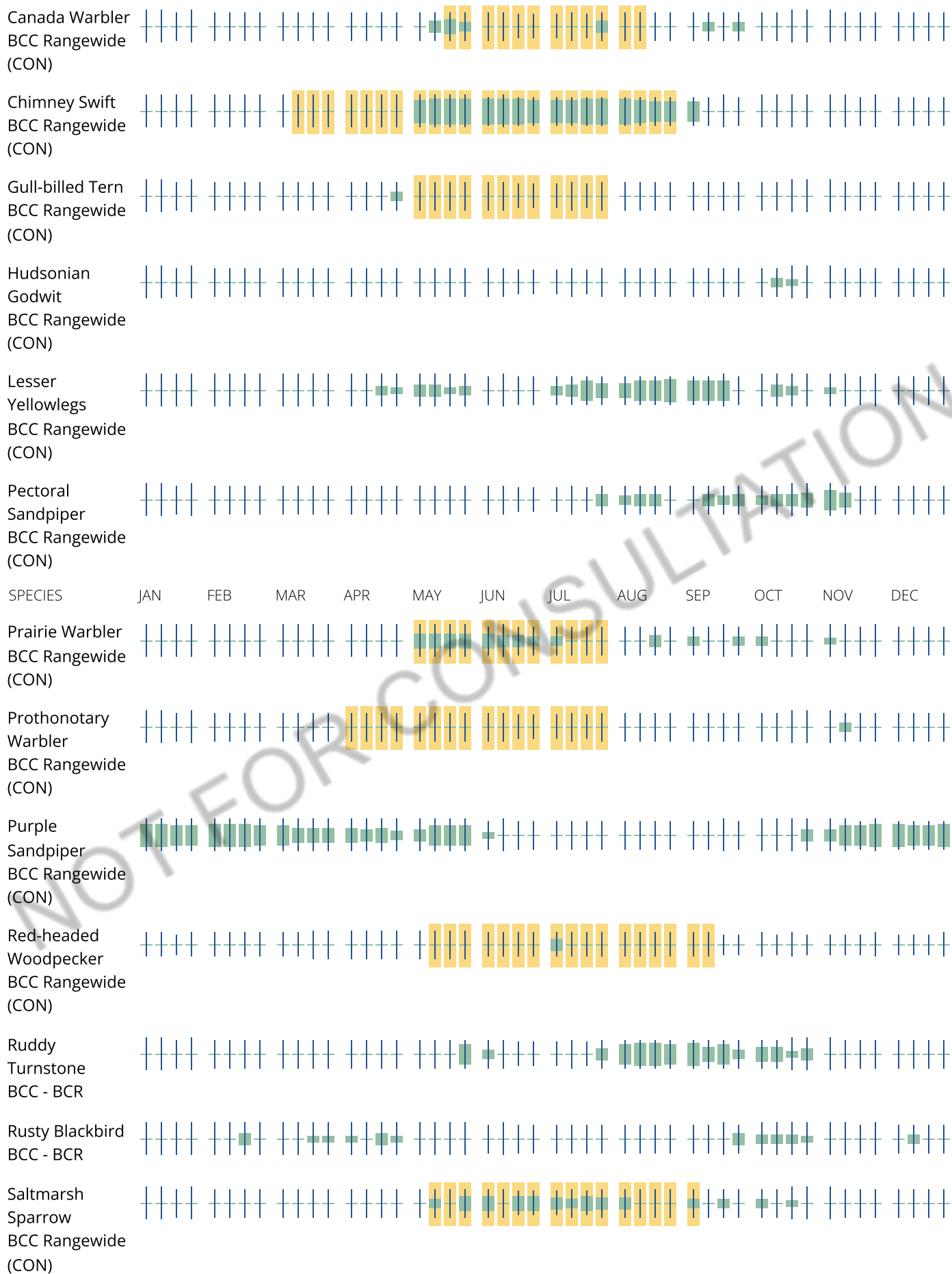
No Data (-)

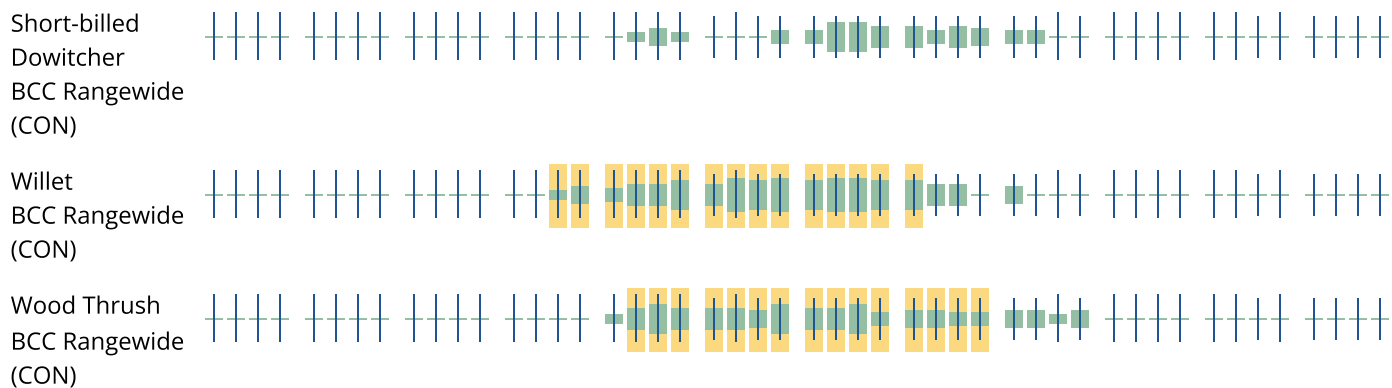
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.







Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

[PEM5E](#)

[PEM1/SS1E](#)

[PEM1E](#)

FRESHWATER FORESTED/SHRUB WETLAND

[PSS1E](#)

[PFO1/SS1E](#)

[PFO1E](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and

nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION



APPENDIX F – NHDHR REQUEST FOR PROJECT REVIEW

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review & Compliance
172 Pembroke Road, Concord, NH 03301

RECEIVED DEC 01 2023

DHR Use Only	
R&C #	15535
Log In Date	12/1/23
Response Date	12/18/23
Sent Date	12/19/23

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	Resistance Substation Retirement Project, ESNH-2023-029
Project Location	Eversource T-13 Transmission Line and 3171 Distribution Line Right-of-Way (ROW)
City/Town	Greenland/Portsmouth
Tax Map	See attached
Lot #	
NH State Plane - Feet Geographic Coordinates:	Easting 1213879 Northing 202663
<i>(See RPR Instructions and R&C FAQs for guidance.)</i>	
Lead Federal Agency and Contact <i>(if applicable)</i>	USACE
<i>(Agency providing funds, licenses, or permits)</i>	
Permit Type and Permit or Job Reference #	SV
State Agency and Contact <i>(if applicable)</i>	NHDES
Permit Type and Permit or Job Reference #	SPN
APPLICANT INFORMATION	
Applicant Name	Eversource Energy, Attn: Kurt Nelson
Mailing Address	13 Legends Drive
Phone Number	603-634-3256
City	Hooksett
State	NH
Zip	03106
Email	kurt.nelson@eversource.com
CONTACT PERSON TO RECEIVE RESPONSE	
Name/Company	GZA GeoEnvironmental, Inc., Attn: Conor E. Madison
Mailing Address	5 Commerce Park North, Suite 201
Phone Number	207-331-6629
City	Bedford
State	NH
Zip	03110
Email	conor.madison@gza.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. **Please include a self-addressed stamped envelope. 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.s.labash@dncr.nh.gov.*

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION

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.*) Please note, using EMMIT Guest View for an RPR records search does not provide the necessary information needed for DHR review.
EMMIT or in-house records search conducted on 3/14/2023.

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):

- 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: Nancy Miller, DSHR Date: 12/18/23



APPENDIX G – PHOTOGRAPHIC LOG

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 1: Looking north at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structures 97 to 95 on the 3171 Line ROW off Ocean Road, Greenland, NH.



Photograph No. 2: Looking north at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 94 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 3: Looking south at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 94 on the 3171 Line ROW off Ocean Road, Greenland, NH.



Photograph No. 4: Looking northeast at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 93 on the 3171 Line ROW off Ocean Road, Greenland, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 5: Looking east at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 92 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.



Photograph No. 6: Looking southwest at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 91 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 7: Looking north at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 90 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.



Photograph No. 8: Looking north towards Structure 86 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 9: Looking east at Structures 85 and 84 on the 3171 Line ROW off NH33, Portsmouth, NH



Photograph No. 10: Looking east at Wetland PW-1 (PEM1/PSS1E.Fg) near Structure 83 on the 3171 Line ROW off NH33, Portsmouth, NH

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 11: Looking southwest at Wetland PW-1 (PEM1/PSS1E.Fg) near Structure 82 on the 3171 Line ROW off NH33, Portsmouth, NH



Photograph No. 12: Looking west at Wetland PW-1 (PEM1/PSS1E.Fg) near Structure 81 on the 3171 Line ROW off NH33, Portsmouth, NH

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 13: Looking southwest at Wetland PW-1 (PEM1/PSS1E.Fg) near Structure 80 on the 3171 Line ROW off NH33, Portsmouth, NH



Photograph No. 14: Looking northwest at Wetland PW-1 (PEM1/PSS1E.Fg) near Structure 79 on the 3171 Line ROW off NH33, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 15: Looking west at Wetland PW-1 (PEM1/PSS1E.Fg) near Structures 78 and 77 on the 3171 Line ROW off NH33, Portsmouth, NH.



Photograph No. 16: Looking northeast at Wetland PW-1 (PEM1/PSS1E.Fg) towards Structure 77 to 73 on the 3171 Line ROW off NH33, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 17: Looking northwest towards Structures 72 and 72.6 on the 3171 Line ROW off NH33, Portsmouth, NH.



Photograph No. 18: Looking southeast at Structures 72.1 to 72.5 on the 3171 Line ROW off Griffin Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 19: Looking northeast at Structure 1 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 20: Looking south near Wetland PW-2 (PEM1/PSS1E) on the T13 Line ROW off Gosling Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 21: Looking northwest near Wetland PW-3 (PEM1/PSS1E) between Structures 1 and 2 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 22: Looking southwest at Structure 2 on the T13 Line ROW off Gosling Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 23: Looking northwest at Wetland PW-4 (PEM1/PSS1E) near Structure 2 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 24: Looking south at Structure 3 and Wetlands PW-5 (PEM1/PSS1E) and PW-6 (PEM1/PSS1E) on the T13 Line ROW off Gosling Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 25: Looking west at Structure 3.5 and Wetland PW-6 (PEM1/PSS1E) on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 26: Looking southeast at Structure 4 on the T13 Line ROW off Gosling Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 27: Looking south at Structure 5 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 28: Looking east at Structure 6 and Wetland PW-7 (PEM1/PSS1E,H) on the T13 Line ROW off Gosling Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 29: Looking east at Wetlands PW-9 (PEM1/PSS1Ex) and PW-8 (PEM1/PSS1E) near Structure 6 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 30: Looking east at Structure 7 and Wetlands PW-10 (PSS1Ex) and PW-11 (PSS1/PEM1Ex) on the T13 Line ROW off Gosling Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 31: Looking east at Wetland PW-11 (PSS1/PEM1Ex) between Structures 7 and 8 on the T13 Line ROW off Gosling Road, Portsmouth, NH



Photograph No. 32: Looking northeast at Structure 9 and Wetland PW-12 (PEM1/PSS1E) on the T13 Line ROW off Gosling Road, Portsmouth, NH.

PHOTO LOG
T13/3171, and Resistance SS Project
Portsmouth, and Greenland, New Hampshire
Photos Taken: June and August 2023



Photograph No. 33: Looking east at Wetland PW-13 (PEM1/PSS1E) and Structure 10 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 34: Looking southeast at Wetlands PW-13 (PEM1/PSS1E), PW-14 (PSS1/PEM1E), and PW-15 (PEM1E), and at Structures 10 and 11 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



APPENDIX H – AVOIDANCE AND MINIMIZATION CHECKLIST



AVOIDANCE AND MINIMIZATION CHECKLIST

Water Division/Land Resources Management Wetlands Bureau



[Check the Status of your Application](#)

RSA/Rule: RSA 482-A/ Env-Wt 311.07(c)

This checklist can be used in lieu of the written narrative required by Env-Wt 311.07(a) to demonstrate compliance with requirements for Avoidance and Minimization (A/M), pursuant to RSA 482-A:1 and Env-Wt 311.07(c).

For the construction or modification of non-tidal shoreline structures over areas of surface waters without wetland vegetation, complete only Sections 1, 2, and 4 (or the applicable sections in [Attachment A: Minor and Major Projects \(NHDES-W-06-013\)](#)).

The following definitions and abbreviations apply to this worksheet:

- “A/M BMPs” stands for [Wetlands Best Management Practice Techniques for Avoidance and Minimization](#) dated 2019, published by the New England Interstate Water Pollution Control Commission (Env-Wt 102.18).
- “Practicable” means available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes (Env-Wt 103.62).

SECTION 1 - CONTACT/LOCATION INFORMATION		
APPLICANT LAST NAME, FIRST NAME, M.I.: APPLICANT LAST NAME, FIRST NAME, M.I.: Eversource Energy, Attn: Kurt Nelson		
PROJECT STREET ADDRESS: 3171/3111 Right of Way and T13 Right of Way	PROJECT TOWN: Greenland and Portsmouth	
TAX MAP/LOT NUMBER: Various - See Appendix B		
SECTION 2 - PRIMARY PURPOSE OF THE PROJECT		
Env-Wt 311.07(b)(1)	Indicate whether the primary purpose of the project is to construct a water-access structure or requires access through wetlands to reach a buildable lot or the buildable portion thereof.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

www.des.nh.gov

If you answered “no” to this question, describe the purpose of the “non-access” project type you have proposed:

The proposed project is to retire the Resistance Substation along with the other components, including, the removal of the existing T-13 Transmission line, the installation of the new 339 Distribution Line, and the replacement of structures along the 3171 and 3111 Distribution Lines by replacing existing wooden poles with steel poles. The project requires temporary freshwater wetland impacts for timber matting access and work pad placement around utility poles, as well as permanent wetland impact for the installation of the proposed replacement structures. Upon completion of work, temporary timber matting will be removed and temporarily impacted wetland areas will be mulched and seeded with a native seed mix, as necessary.

SECTION 3 - A/M PROJECT DESIGN TECHNIQUES

Check the appropriate boxes below in order to demonstrate that these items have been considered in the planning of the project. Use N/A (not applicable) for each technique that is not applicable to your project.

Env-Wt 311.07(b)(2)	For any project that proposes new permanent impacts of more than one acre or that proposes new permanent impacts to a Priority Resource Area (PRA), or both, whether any other properties reasonably available to the applicant, whether already owned or controlled by the applicant or not, 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.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.07(b)(3)	Whether alternative designs or techniques, such as different layouts, construction sequencing, or alternative technologies could be used to avoid impacts to jurisdictional areas or their functions and values.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(1) Env-Wt 311.10(c)(2)	The results of the functional assessment required by Env-Wt 311.03(b)(10) were used to select the location and design for the proposed project that has the least impact to wetland functions.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(3)	Where impacts to wetland functions are unavoidable, the proposed impacts are limited to the wetlands with the least valuable functions on the site while avoiding and minimizing impacts to the wetlands with the highest and most valuable functions.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.01(c)(1) Env-Wt 313.01(c)(2) Env-Wt 313.03(b)(1)	No practicable alternative would reduce adverse impact on the area and environments under the department’s jurisdiction and the project will not cause random or unnecessary destruction of wetlands.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.01(c)(3)	The project would not cause or contribute to the significant degradation of waters of the state or the loss of any PRAs.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A

Env-Wt 313.03(b)(3) Env-Wt 904.07(c)(8)	The project maintains hydrologic connectivity between adjacent wetlands or stream systems.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	Buildings and/or access are positioned away from high function wetlands or surface waters to avoid impact.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	The project clusters structures to avoid wetland impacts.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	The placement of roads and utility corridors avoids wetlands and their associated streams.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
A/M BMPs	The width of access roads or driveways is reduced to avoid and minimize impacts. Pullouts are incorporated in the design as needed.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
A/M BMPs	The project proposes bridges or spans instead of roads/driveways/trails with culverts.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
A/M BMPs	The project is designed to minimize the number and size of crossings, and crossings cross wetlands and/or streams at the narrowest point.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 500 Env-Wt 600 Env-Wt 900	Wetland and stream crossings include features that accommodate aquatic organism and wildlife passage.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 900	Stream crossings are sized to address hydraulic capacity and geomorphic compatibility.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
A/M BMPs	Disturbed areas are used for crossings wherever practicable, including existing roadways, paths, or trails upgraded with new culverts or bridges.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
SECTION 4 - NON-TIDAL SHORELINE STRUCTURES		
Env-Wt 313.03(c)(1)	The non-tidal shoreline structure has been designed to use the minimum construction surface area over surfaces waters necessary to meet the stated purpose of the structure.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.03(c)(2)	The type of construction proposed for the non-tidal shoreline structure is the least intrusive upon the public trust that will ensure safe navigation and docking on the frontage.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(3)	The non-tidal shoreline structure has been designed to avoid and minimize impacts on the ability of abutting owners to use and enjoy their properties.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A

Env-Wt 313.03(c)(4)	The non-tidal shoreline structure has been designed to avoid and minimize impacts to the public's right to navigation, passage, and use of the resource for commerce and recreation.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.03(c)(5)	The non-tidal shoreline structure has been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(6)	The non-tidal shoreline structure has 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.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A



APPENDIX I – NHDES ARM FUND SPREADSHEET

**NHDES AQUATIC RESOURCE MITIGATION FUND
WETLAND PAYMENT CALCULATION
INSERT AMOUNTS IN YELLOW CELLS**

1 Convert square feet of impact to acres:		
INSERT SQ FT OF IMPACT	Square feet of impact =	100.00
		43560.00
	Acres of impact =	0.0023
	Total Wetland Credits =	0.0023
2 Determine acreage of wetland construction:		
	Forested wetlands:	0.0034
	Tidal wetlands:	0.0069
	All other areas:	0.0034
3 Wetland construction cost:		
	Forested wetlands:	\$373.27
	Tidal Wetlands:	\$746.53
	All other areas:	\$373.27
4 Land acquisition cost (See land value table):		
INSERT LAND VALUE FROM TABLE WHICH APPEARS TO THE LEFT. (Insert the amount do not copy and paste.)	Town land value:	67802
	Forested wetlands:	\$233.48
	Tidal wetlands:	\$466.96
	All other areas:	\$233.48
5 Construction + land costs:		
	Forested wetland:	\$606.75
	Tidal wetlands:	\$1,213.49
	All other areas:	\$606.75
6 NHDES Administrative cost:		
	Forested wetlands:	\$121.35
	Tidal wetlands:	\$242.70
	All other areas:	\$121.35
***** TOTAL ARM PAYMENT*****		
	Forested wetlands:	\$728.09
	Tidal wetlands:	\$1,456.19
	All other areas:	\$728.09

**NHDES AQUATIC RESOURCE MITIGATION FUND
WETLAND PAYMENT CALCULATION
INSERT AMOUNTS IN YELLOW CELLS**

1 Convert square feet of impact to acres:		
INSERT SQ FT OF IMPACT	Square feet of impact =	725.00
		43560.00
	Acres of impact =	0.0166
	Total Wetland Credits =	0.0166
2 Determine acreage of wetland construction:		
	Forested wetlands:	0.0250
	Tidal wetlands:	0.0499
	All other areas:	0.0250
3 Wetland construction cost:		
	Forested wetlands:	\$2,706.19
	Tidal Wetlands:	\$5,412.37
	All other areas:	\$2,706.19
4 Land acquisition cost (See land value table):		
INSERT LAND VALUE FROM TABLE WHICH APPEARS TO THE LEFT. (Insert the amount do not copy and paste.)	Town land value:	67802
	Forested wetlands:	\$1,692.72
	Tidal wetlands:	\$3,385.43
	All other areas:	\$1,692.72
5 Construction + land costs:		
	Forested wetland:	\$4,398.90
	Tidal wetlands:	\$8,797.81
	All other areas:	\$4,398.90
6 NHDES Administrative cost:		
	Forested wetlands:	\$879.78
	Tidal wetlands:	\$1,759.56
	All other areas:	\$879.78
***** TOTAL ARM PAYMENT*****		
	Forested wetlands:	\$5,278.68
	Tidal wetlands:	\$10,557.37
	All other areas:	\$5,278.68



APPENDIX J – USACE APPENDIX B CHECKLIST AND 11 X 17 PLANS



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**Appendix B
New Hampshire General Permits
Required Information and USACE Section 404 Checklist**

Required Information

In order for USACE to properly evaluate your application, applicants must submit the following information for all projects along with the NHDES Wetlands Bureau application or permit notification forms. Some projects may require more information. Check with USACE at (978) 318-8832 for project-specific requirements. For your convenience, this Appendix B is also attached to the NHDES Wetlands Bureau application and Permit by Notification forms.

- NHDES Wetlands Permit Application.
- Request for Project Review Form by the NH DHR: <https://www.nh.gov/nhdhr/review/rpr.htm>.
- Photographs of wetland/waterway to be impacted.
- Purpose of the project.
- Legible, reproducible plans no larger than 11"x17" with bar scale. Provide locus map and plan views of the entire property.
- Typical cross-section views of all wetland and waterway fill areas and wetland replication areas.
- In navigable waters, show MLW and MHW elevations. Show the HTL elevations when fill is involved. In other waters, show the OHW elevation.
- On each plan, show the following for the project:
 - Vertical datum and the NAVD 1988 equivalent with the vertical units as U.S. feet. In coastal waters this may be mean higher high water (MHHW), MHW, MLW, mean lower low water (MLLW) or other tidal datum with the vertical units as U.S. feet. MLLW and MHHW are preferred. Provide the correction factor detailing how the vertical datum (e.g., MLLW) was derived using the latest National Tidal Datum Epoch for that area, typically 1983 - 2001.
 - Horizontal state plane coordinates in U.S. survey feet based on the Traverse Mercator Grid system for the State of New Hampshire (Zone 2800) NAD 83.
 - Project limits with existing and proposed conditions.
 - Limits of any FNP in the vicinity of the project area and horizontal State Plane Coordinates in U.S. survey feet for the limits of the proposed work closest to the FNP.
 - Volume, type, and source of fill material to be discharged into waters and wetlands, including the area(s) (in square feet or acres) of fill in wetlands, below the OHW in inland waters and below the HTL in coastal waters.
 - Delineation of all waterways and wetlands on the project site.
- Use Federal delineation methods and include USACE wetland delineation data sheets (GC 2).
- For activities involving discharges of dredged or fill material into waters of the U.S., include a statement describing how impacts to waters of the U.S. are to be avoided and minimized, and either a statement describing how impacts to waters of the U.S. are to be compensated for (or a conceptual or detailed mitigation plan) or a statement explaining why compensatory mitigation should not be required for the proposed impacts. Please contact USACE for guidance.



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**Appendix B
New Hampshire General Permits
Required Information and USACE Section 404 Checklist**

USACE Section 404 Checklist

1. Attach any explanations to this checklist. Lack of information could delay a USACE 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 3 for information on single and complete projects.
4. Contact USACE at (978) 318-8832 with any questions.
5. The information requested below is generally required in the NHDES Wetland Application. See page 61 for NHDES references and Admin Rules as they relate to the information below.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See the following to determine if there is an impaired water in the vicinity of your work area. * https://nhdes-surface-water-quality-assessment-site-nhdes.hub.arcgis.com/ https://www.des.nh.gov/water/rivers-and-lakes/water-quality-assessment https://www4.des.state.nh.us/onestopdatamapper/onestopmapper.aspx	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 tidal SAS, prime wetlands, or priority resource areas? 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://www4.des.state.nh.us/NHB-DataCheck/ .	X	
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	X	
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?	1,125 Sq. Ft. - Existing Poles	
2.7 What is the area of the proposed fill in wetlands?	825 Sq. Ft. - Proposed Poles	
2.8 What % of the overall project sire will be previously and proposed filled wetlands?	0.01%	
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://www4.des.state.nh.us/NHB-DataCheck/ . USFWS IPAC website: https://ipac.ecosphere.fws.gov/	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: https://wildlife.state.nh.us/wildlife/wap-high-rank.html. • 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 31?	X - Stream crossings temporary with timber matting	
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 - existing and maintained ROW, flood storage loss not anticipated	
5. Historic/Archaeological Resources		
For a minimum, minor or major impact project - a copy of the 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 37 GC 14(d) of the GP document**	X	
6. Minimal Impact Determination (for projects that exceed 1 acre of permanent impact)	Yes	No
Projects with greater than 1 acre of permanent impact must include the following: <ul style="list-style-type: none"> • Functional assessment for aquatic resources in the project area. • On and off-site alternative analysis. • Provide additional information and description for how the below criteria are met. 	N/A - less than 1 acre of permanent impact for proposed project.	
6.1 Will there be complete loss of aquatic resources on site?		
6.2 Have the impacts to the aquatic resources been avoided and minimized to the greatest extent practicable?		
6.3 Will all aquatic resource function be lost?		
6.4 Does the aquatic resource (s) have regional significance (watershed or ecoregion)?		
6.5 Is there an on-site alternative with less impact?		
6.6 Is there an off-site alternative with less impact?		
6.7 Will there be a loss to a resource dependent species?		
6.8 Are indirect impacts greater than 1 acre within and adjacent to the project area?		
6.9 Does the proposed mitigation replace aquatic resource function for direct, indirect, and cumulative impacts?		

*Although this checklist utilizes state information, its submittal to USACE is a federal requirement.

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



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**Appendix B
New Hampshire General Permits
Required Information and USACE Section 404 Checklist**

NHDES Rule Citations

Appendix B Requirements	NHDES Citation	NHDES Resource, Form & BMP
1. Impaired Waters		
1.1	See Env-Wt 307.03 Protection of Water Quality Required & Env-Wt 306.05 a) 7	https://nhdes-surface-water-quality-assessment-site-nhdes.hub.arcgis.com/ https://www.des.nh.gov/water/rivers-and-lakes/water-quality-assessment https://www4.des.state.nh.us/onestopdatamapper/onestopmapper.aspx
2. Wetlands		
2.1	N/A	N/A
2.2	Env 307.06; Env- Wt 311.01(a)(b) (c)	NH Online Forms System - Coastal Resource Worksheet. Version 2.0 Wetlands Permitting: Protected Species and Habitat (nh.gov) Wetlands Permitting: Priority Resource Area (nh.gov) https://www4.des.state.nh.us/NHB-DataCheck/ .
2.3	Env-Wt 313.03(b)(3); Env-Wt 313.03(b)(4)(7); Env-Wt 307.06	See Chapter 7, Stream & Wetland Crossings: Wetlands Best Management Practice Techniques for Avoidance and Minimiz Wetlands-BMP-Manual-2019.pdf (neiwpc.org) (& Env-Wt 900 for Stream Crossings)
2.4	Env-Wt 604.02 (Tidal buffer zone); Env-Wt 704 (prime buffers)	
2.5	N/A	N/A
2.6	N/A	N/A
2.7	Env-Wt 311.04(g)	Standard application Section 11- NH Online Forms System - Standard Dredge and Fill Wetlands Permit Application . Version 3.5
2.8	N/A	N/A
3. Wildlife		
3.1	Env-Wt 103.69 "Protected species or habitat"; Env-Wt 307.06, 311.01	NHB DataCheck Tool: https://www4.des.state.nh.us/NHB-DataCheck/ . Wetlands Permitting: Protected Species and Habitat (nh.gov) Wetlands Permitting: Priority Resource Area (nh.gov)
3.2	Env-Wt 311.02; 313.03(b)(2), (4), (7)(16); Env-Wt 313.03(b)(6) & See Env-Wt 808.19(g), Env-Wt 808.20	Wetlands Permitting: Protected Species and Habitat (nh.gov) Wetlands Permitting: Priority Resource Area (nh.gov)
3.3	N/A	N/A
3.4	NA	N/A
3.5	(Env-Wt 900) Microsoft Word - Env-Wt 900 as of 10-2020.docx (nh.gov)	New Hampshire Stream Crossing Guidelines (nh.gov) (2009 UNH) NH Online Forms System - Wetland Permit Application Stream Crossing Worksheet. Version 1.8 Stream Crossing Design (nh.gov) : https://www.nh.gov/dot/org/projectdevelopment/environment/units/program-management/documents/RR_V.9_FINAL_3-14-19.pdf Best Management Practices for Routine Roadway Maintenance Activities in New Hampshire. 2019. New Hampshire Department of Transportation.
4. Flooding/Floodplain Values		
4.1	Env-Wt 311.05; Env-Wt 103.66 517.03(b); 517.06(a)(6);	Wetlands Permitting: Priority Resource Area (nh.gov) NH Online Forms System - Coastal Resource Worksheet. Version 2.0 New Hampshire Coastal Flood Risk Summary NH Department of

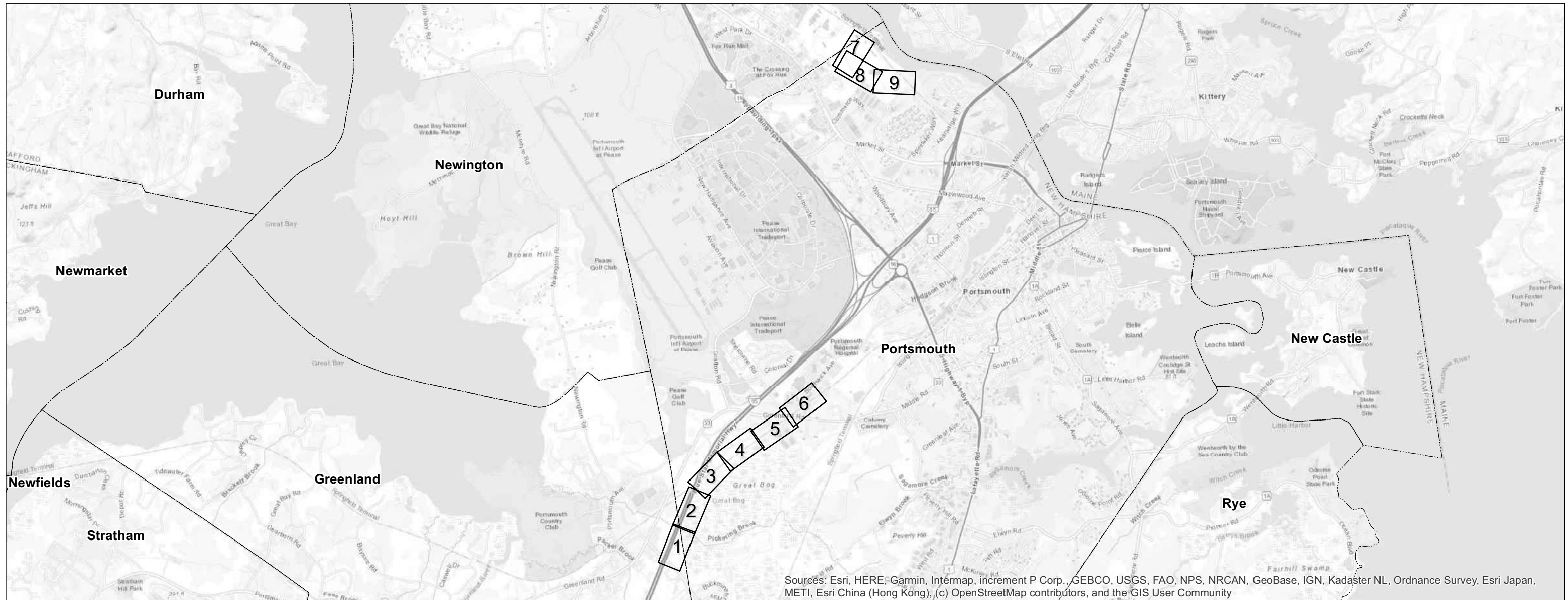
	527.02(e); 527.04(d); Env-Wt 600 Env-Wt 900	Environmental Services (cited in Env-Wt 603.05) NH Online Forms System - Wetland Permit Application Stream Crossing Worksheet. Version 1.8 hydraulic-vulnerability-handout.pdf (nh.gov)
4.2	Env-Wt 527.02 & 527.04 & 313.04 & Env-Wt 800; Wt 605.03 & 605.04	Yes, for permanent impacts to a PRA, impacts from public highway projects, & those projects where flood storage functions are lost when the mitigation threshold is reached. Wetlands Mitigation NH Department of Environmental Services
5. Historical/Archeological Resources		
5.0	Env-Wt 311.02(f)(6)	
6. Minimal Impact Determination		
6.0	F/V assessment: (Env-Wt 311.10); Env-Wt 603.04 (Coastal Functional Assessment) Alternatives: (Env-Wt 311.07(b)(2))	NH Online Forms System - Wetlands Functional Assessment Worksheet. Version 1.3 NH Online Forms System - Coastal Resource Worksheet. Version 2.0
6.1		Wetlands Permitting: Avoidance, Minimization, and Mitigation (nh.gov)
6.2	Env-Wt 102.12 ("Avoidance"), Env-Wt 102.13 ("Avoidance, minimization, mitigation"), Env-Wt 102.14 ("Avoid and minimize"), Env-Wt 311.01, Env-Wt 313.03 ("Avoidance & Minimization") Env-Wt 311.07	See <i>Wetlands Best Management Practice Techniques for Avoidance and Minimization</i> - Wetlands-BMP-Manual-2019.pdf (neiwppc.org) referenced in Env-Wt 313.03(a); A/M written narrative (NH Online Forms System - Avoidance and Minimization Written Narrative. Version 2.0); Avoidance and Minimization Checklist: NH Online Forms System - Avoidance and Minimization Checklist. Version 3.1
6.3	Env-Wt 311.10, 603.04	See Functional Assessment worksheets above
6.4	Env-Wt 311.02, Env-Wt 312.04. Env-Wt 306.05, 307.06, 311.01	See Protected Species or Habitat (including exemplary natural communities)
6.5	Env-Wt 311.01, Env-Wt 311.07, Env-Wt 311.10 & 313.01 c1)	See Avoidance & Minimization cites above & BMPs
6.6	(Env-Wt 313.01c) (1) & Env-Wt 311.07(b)(2))	
6.7	Env-Wt 311.10, Env-Wt 103.69, Env-307.06, see Avoidance & minimization cites	NH Online Forms System - Wetlands Functional Assessment Worksheet. Version 1.3 ; Wetlands Permitting: Priority Resource Area (nh.gov) NH Online Forms System - Coastal Resource Worksheet. Version 2.0
6.8	Env-Wt 102.05 (Water quality BMPs)	Practices to minimize or prevent direct or indirect discharge of sediment or other pollutants into surface waters and wetlands, listed in Env-Wt 307
6.9	Env-Wt 800	

Resistance Substation Retirement Project

GREENLAND AND PORTSMOUTH, NEW HAMPSHIRE

Environmental Resources Map

Date: November 14, 2023



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

PREPARED FOR:
EVERSOURCE
 ENERGY
 13 Legends Drive
 Hooksett, NH 03106



0 0.25 0.5 1 Miles

INDEX OF FIGURES

Title Sheet / Index Map
 Map Sheets 1-9

NO.	DATE	REVISIONS

PREPARED BY:



GZA GeoEnvironmental, Inc.
 Engineers and Scientists
www.gza.com

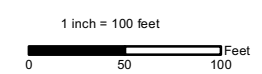


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| <ul style="list-style-type: none"> ● PROPOSED STRUCTURE ● EXISTING STRUCTURE ● EXISTING STRUCTURE TO BE REMOVED — EXISTING DISTRIBUTION LINE — PROPOSED DISTRIBUTION LINE — NHDOT ROADS — FLOWLINES — TRANSMISSION LINE — APPROXIMATE ROW — EROSION CONTROLS | <ul style="list-style-type: none"> ○ PROPOSED ACCESS ○ OFF ROW ACCESS ○ EXISTING ACCESS ■ VERY POORLY DRAINED SOILS IMPACT ■ HISTOSOL AND HISTIC EPIPEDON SOILS ■ UPLAND MATTING ■ TEMPORARY NON-VPD WETLAND IMPACT ○ WETLAND DELINEATION BOUNDARY ■ PRIME WETLAND □ PARCEL BOUNDARY ■ POTENTIAL VERNAL POOL | <ul style="list-style-type: none"> ■ PEATLAND HABITAT ■ WETLAND □ WETLAND ADJACENT TO TIER 3+ □ STONEWALL ■ WORK AREA ■ DOT ROAD ■ TOWN BOUNDARY — RAILROAD — 2FT CONTOURS |
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NO.	DATE	REVISIONS

EVERSOURCE ENERGY

RESISTANCE SUBSTATION RETIREMENT PROJECT

GREENLAND/PORTSMOUTH, NH	MAP SHEET
Date: November, 2023	
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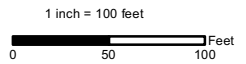
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INDEX MAP



- PROPOSED STRUCTURE
- EXISTING STRUCTURE
- EXISTING STRUCTURE TO BE REMOVED
- EXISTING DISTRIBUTION LINE
- PROPOSED DISTRIBUTION LINE
- NHDOT ROADS
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- RAILROAD
- 2FT CONTOURS

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NO.	DATE	REVISIONS

EVERSOURCE
ENERGY

RESISTANCE SUBSTATION RETIREMENT PROJECT

PORTSMOUTH, NH MAP SHEET

Date: November, 2023

04.0191410.47 **2 OF 9**



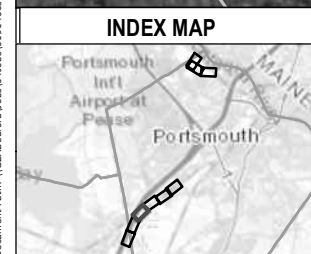
APPROXIMATE VERY POORLY DRAINED SOILS IMPACT: 102,309 SF

APPROXIMATE TEMPORARY NON-VPD WETLAND IMPACT: 139,792 SF

GW-1
PEM1/PSS1/PFO1E,Fg/R2UB

PW-1
PEM1/PSS1E,Fg

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| ● PROPOSED STRUCTURE | ○ PROPOSED ACCESS | ■ PEATLAND HABITAT |
| ● EXISTING STRUCTURE | ○ OFF ROW ACCESS | ■ WETLAND |
| ○ EXISTING STRUCTURE TO BE REMOVED | ○ EXISTING ACCESS | ■ WETLAND ADJACENT TO TIER 3+ |
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| — NHDOT ROADS | ■ UPLAND MATTING | — DOT ROAD |
| — FLOWLINES | ■ TEMPORARY NON-VPD WETLAND IMPACT | — TOWN BOUNDARY |
| — TRANSMISSION LINE | — WETLAND DELINEATION BOUNDARY | — RAILROAD |
| — APPROXIMATE ROW | ■ PRIME WETLAND | — 2FT CONTOURS |
| — EROSION CONTROLS | — PARCEL BOUNDARY | |
| | ■ POTENTIAL VERNAL POOL | |

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1 inch = 100 feet

NO.	DATE	REVISIONS

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RESISTANCE SUBSTATION RETIREMENT PROJECT

PORTSMOUTH, NH	MAP SHEET
Date: November, 2023	
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1 inch = 100 feet

NO.	DATE	REVISIONS

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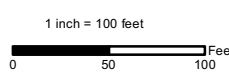


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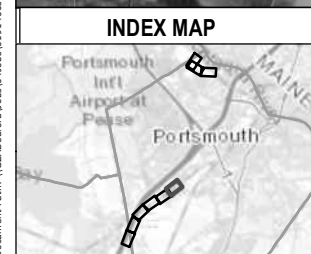
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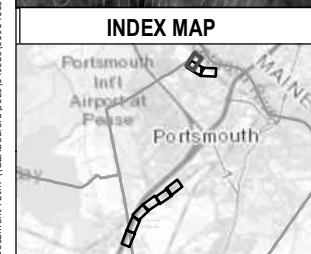
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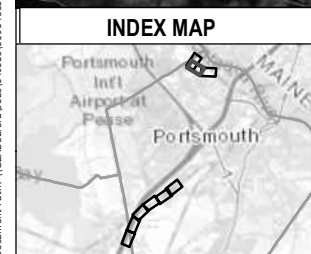
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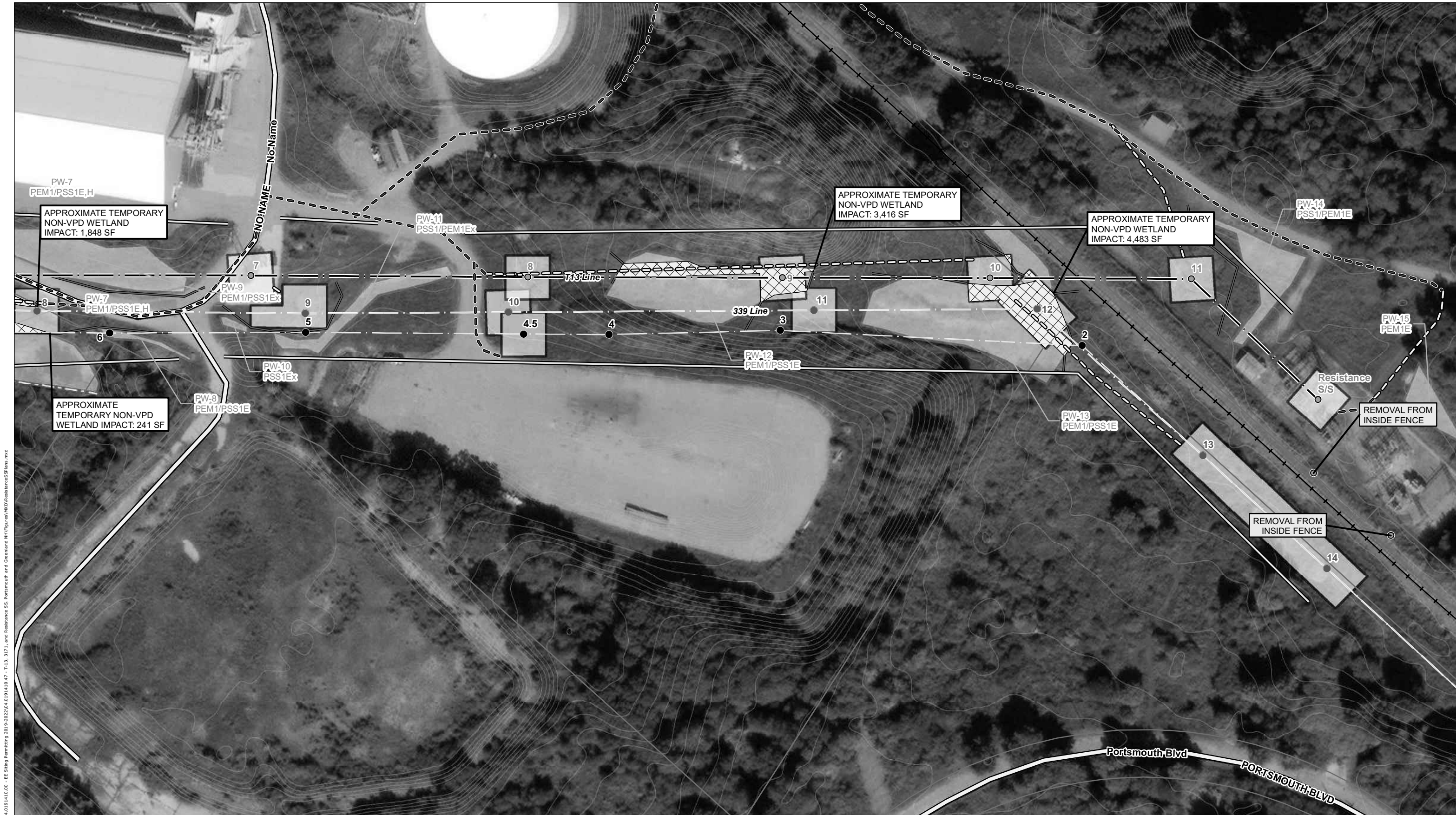
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INDEX MAP		LEGEND	
	PROPOSED STRUCTURE		PROPOSED ACCESS
	EXISTING STRUCTURE		OFF ROW ACCESS
	EXISTING STRUCTURE TO BE REMOVED		EXISTING ACCESS
	EXISTING DISTRIBUTION LINE		VERY POORLY DRAINED SOILS IMPACT
	PROPOSED DISTRIBUTION LINE		HISTOSOL AND HISTIC EPIPEDON SOILS
	NHDOT ROADS		UPLAND MATTING
	FLOWLINES		TEMPORARY NON-VPD WETLAND IMPACT
	TRANSMISSION LINE		WETLAND DELINEATION BOUNDARY
	APPROXIMATE ROW		PRIME WETLAND
	EROSION CONTROLS		PARCEL BOUNDARY
			POTENTIAL VERNAL POOL
			PEATLAND HABITAT
			WETLAND
			WETLAND ADJACENT TO TIER 3+
			STONEWALL
			WORK AREA
			DOT ROAD
			TOWN BOUNDARY
			RAILROAD
			2FT CONTOURS

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CONSTRUCTION SEQUENCE:

1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY, AND CONSISTENT WITH THE NHDES MARCH 2019 BMP MANUAL FOR UTILITY MAINTENANCE.
3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY.
4. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, RIVER, STREAM OR OTHER BODY OF WATER; OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.
5. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT WITH COMPLETE REHABILITATION OF THE AFFECTED AREA.
6. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAND IMPACT AREA. ACCESS ROUTES SHALL NOT EXCEED A 16 FOOT-WIDTH.
7. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE SWAMP MATS WHERE REQUIRED.
8. LOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS AND ROCKS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS IS NEEDED FOR ACCESS.
9. TIMBER MATS AND PERIMETER CONTROLS WILL BE USED ALONG ACCESS ROUTES AND WORK PADS WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL SWAMP MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.
10. IF TIMBER MAT BMP IS NOT SUFFICIENT DUE TO HIGH WATER, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. A TEMPORARY CULVERT MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.
11. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.
12. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.
13. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
14. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
15. CABLE INSTALLATION WILL BE PERFORMED IN A MANNER SO AS TO AVOID, OR LIMIT TO THE MAXIMUM EXTENT POSSIBLE, TRAVERSING WETLANDS WITH HEAVY EQUIPMENT. IN SOME CASES, A HELICOPTER MAY BE USED DURING THE INSTALLATION TO MINIMIZE IMPACTS.
16. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE CABLE HAS BEEN INSTALLED ON THE NEW STRUCTURE. THE OLD STRUCTURES WILL BE REMOVED FROM THE SITE. POLES WILL BE CUT AT THE GROUND SURFACE. FOOTINGS WILL BE ABANDONED IN PLACE TO MINIMIZE IMPACTS.
17. ALL TIMBER MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
18. UPLAND DISTURBED AREAS SHALL BE RESTORED AND STABILIZED UPON COMPLETION OF CONSTRUCTION. WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 30 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 25%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNNECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOIL/LOAM.
19. ALL TEMPORARY WETLAND IMPACTS WILL BE RE-GRADED TO ORIGINAL CONTOURS FOLLOWING CONSTRUCTION. NEW ENGLAND EROSION CONTROL/RESTORATION MIX, AVAILABLE THROUGH NEW ENGLAND WETLAND PLANTS, INC., 820 WEST STREET, AMHERST, MA 01002, 413-548-8000, OR EQUIVALENT SEED MIX SHALL BE APPLIED IN WETLAND AREAS THAT ARE NOT INUNDATED, AS NECESSARY.
20. MULCH USED FOR STABLIZATION SHALL CONSIST OF SEEDLESS STRAW.
21. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
22. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
23. NATURALLY VEGETATED LOCAL WETLAND BUFFER AREAS OUTSIDE OF EXISTING TRAILS MUST BE RESTORED UPON COMPLETION OF WORK.

WINTER CONSTRUCTION NOTES

1. 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. STABILIZATION METHODS SHALL INCLUDE SEEDING AND MULCH, AND INSTALLATION OF 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 FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
2. 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 TEMPORARILY STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

3. 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 (NHDOT 304.3).

GENERAL NOTES:

OWNER: EVERSOURCE ENERGY
13 LEGENDS DRIVE
HOOKSETT, NH 03106

1. BASE PLAN PROVIDED BY EVERSOURCE ENERGY. EVERSOURCE ENERGY PROVIDED THE WETLAND DATA. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
2. JURISDICTIONAL WETLANDS WERE DELINEATED BY GZA GEOENVIRONMENTAL IN 2022. IN ACCORDANCE WITH THE 1987 U.S. ARMY CORPS OF ENGINEERS' "WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1," AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION," NOVEMBER 2022 AND FEBRUARY 2023.
3. GZA GEOENVIRONMENTAL EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2022 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 1997, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ENDANGERED WILDLIFE PROGRAM.
4. GZA GEOENVIRONMENTAL COMPLETED WETLANDS FUNCTION AND VALUES ASSESSMENT IN 2022 AND 2023 IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999.
5. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.
6. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
7. IN ACCORANCE WITH ENV-WQ 1505.02, THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A MINIMUM 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL HAS BEEN INSTALLED
 - OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.



EROSION CONTROL NOTES:

1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25" OR GREATER RAINFALL EVENTS.
2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.
3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO ACCOMPLISH THIS END.
4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED WITH BMPS.
5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT ANNUAL RYEGRASS PRIOR TO OCTOBER 15TH.
6. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
7. EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF JUTE MATTING. MATTING WITH WELDED PLASTIC OR 'BIODEGRADABLE PLASTIC' NETTING OR THREAD WILL BE AVOIDED TO LIMIT UNINTENTIONAL MORTALITY TO SNAKES.

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

RESISTANCE SUBSTATION RETIREMENT PROJECT
GREENLAND & PORTSMOUTH
NEW HAMPSHIRE

NOTES

PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/15/2023	PROJECT NO: 04.0191410.47	REVISION NO.	

Best Management Practices (BMP's) for Straw wattles

Definition and purpose:

Straw wattles are burlap rolls filled with straw that trap sediment and interrupt water flow by reducing slope lengths.

Applications:

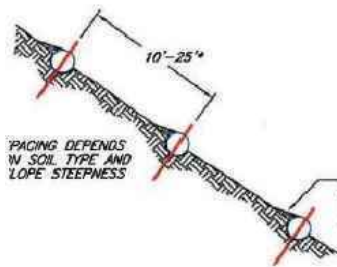
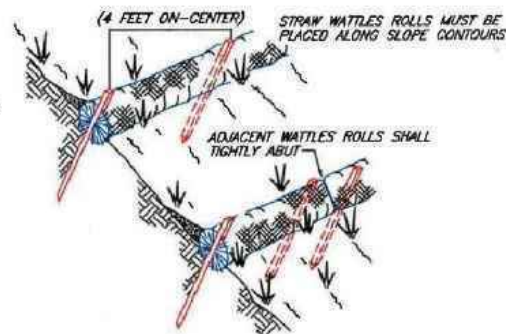
- * Along erodible or unstabilized slopes
- * Spread overland waterflow
- * Trap sediment
- * Around storm drain inlets to slow water and settle out sediment
- * Overlap ends approximately 6 inches

Installation:

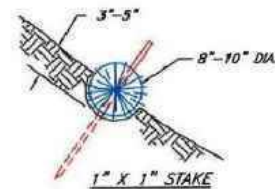
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

Spacing* - Dependent on slope length, soil steepness and soil type (general range 10 - 25').

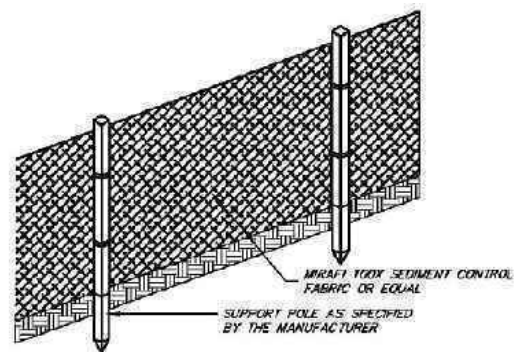
Trenching - 2"-5" inch trench
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



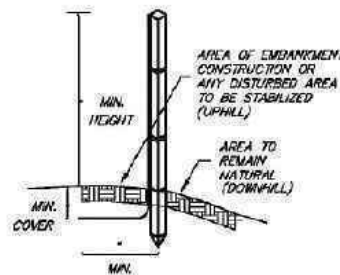
SEDIMENT, ORGANIC MATTER, AND NATIVE SEEDS ARE CAPTURED BEHIND THE WATTLE ROWS.



NOT TO SCALE



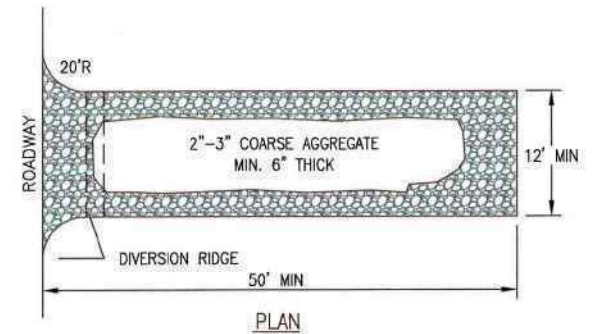
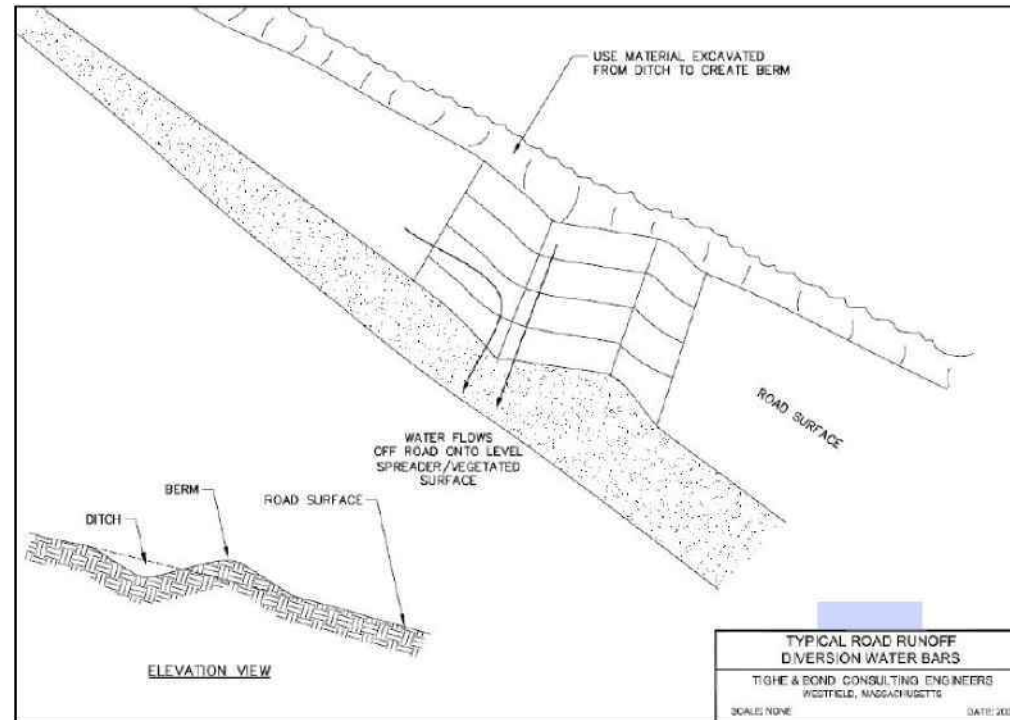
FRONT VIEW



SIDE VIEW

NOTES (SILT FENCE)

1. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES.
2. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.
3. POSTS SHALL BE PLACED AT A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS MANUFACTURER RECOMMENDS.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE OF THE BARRIER IN ACCORDANCE WITH RECOMMENDATIONS.
5. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE, AND WILL EXTEND A MINIMUM OF 8 INCHES INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
7. FABRIC BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST ONCE DAILY DURING PROLONGED RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
10. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
11. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

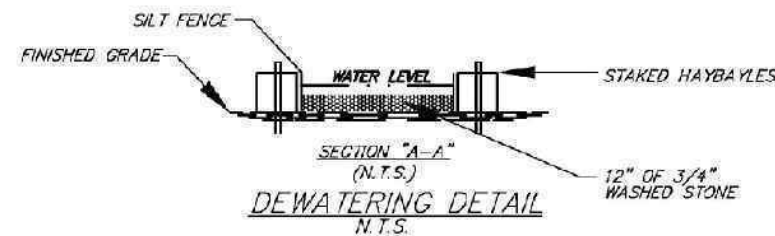
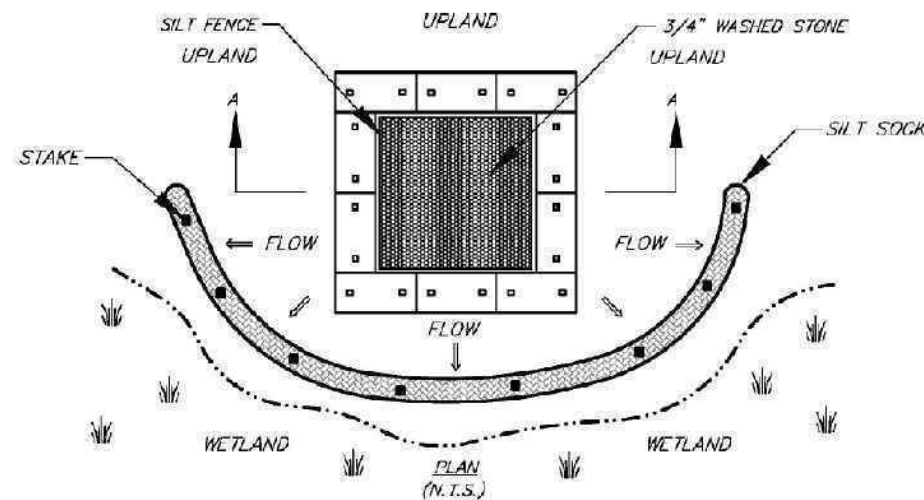


NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

CONSTRUCTION ENTRANCE

NOT TO SCALE



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RESISTANCE SUBSTATION RETIREMENT PROJECT
GREENLAND AND PORTSMOUTH
NEW HAMPSHIRE

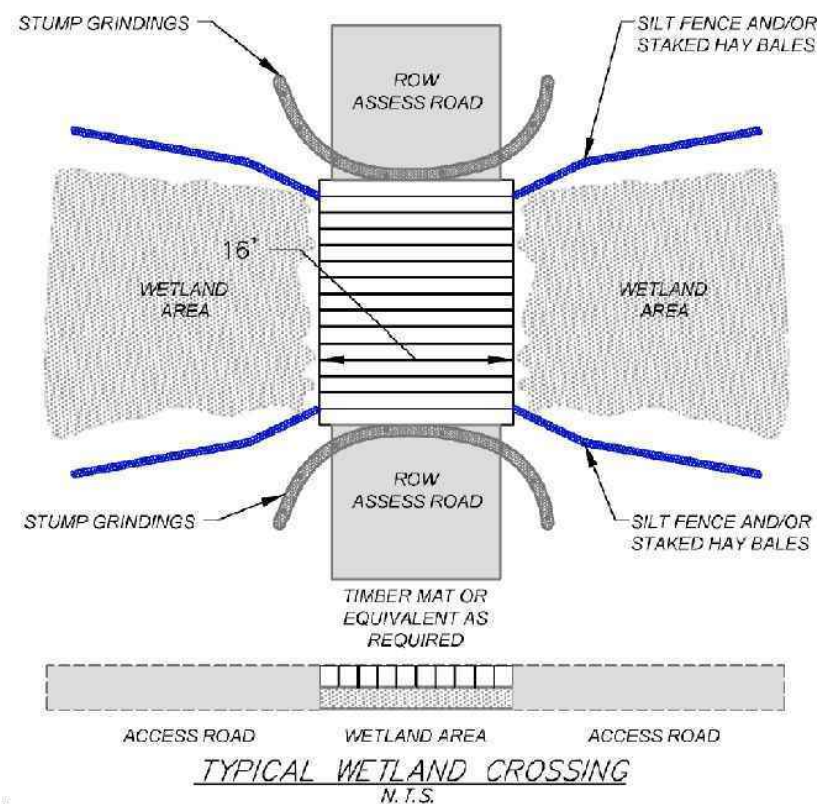
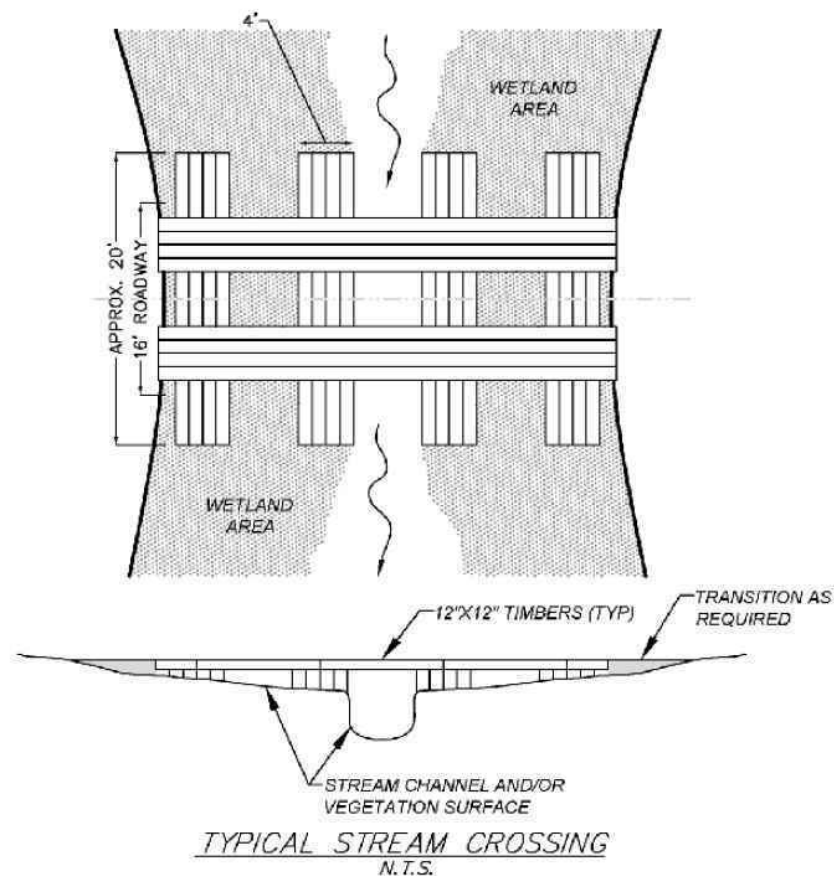
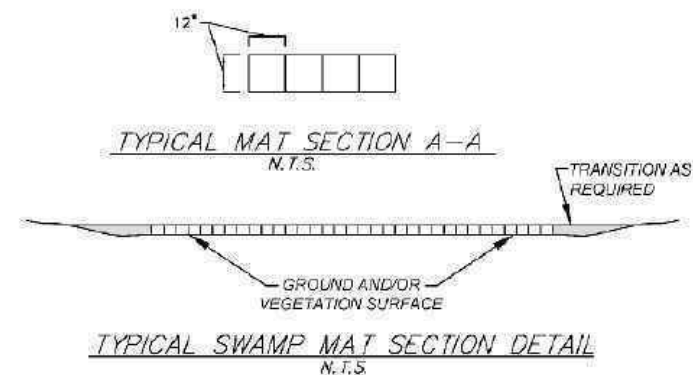
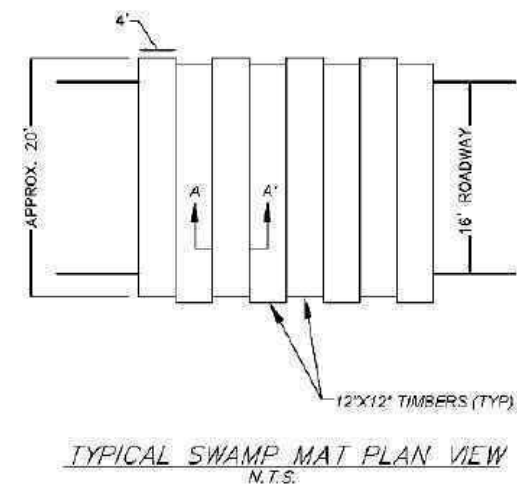
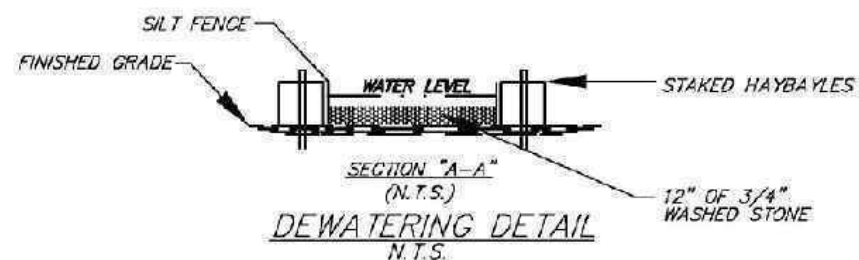
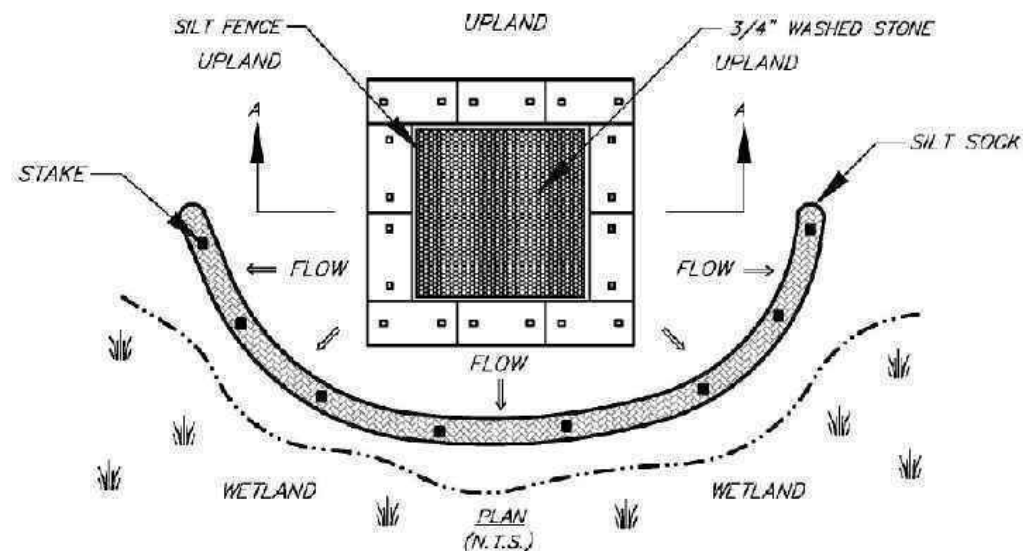
BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
EVERSOURCE
ENERGY

PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S2
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/15/2023	PROJECT NO: 04.0191410.47	REVISION NO:	

© 2023 - GZA GeoEnvironmental, Inc. P:\04\Jobs\0191410\00 - EE Sliding Permitting 2019-2022\04.0191410.47 - T-13, 3171, and Resistance SS, Portsmouth and Greenland NH\Figures\AXD\3171 T13 Act Notesheet 3.mxd, 8/15/2023, 9:04:56 AM, Sydney Wickland



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RESISTANCE SUBSTATION RETIREMENT PROJECT
GREENLAND AND PORTSMOUTH
NEW HAMPSHIRE

BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
EVERSOURCE
ENERGY

PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S3
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APPENDIX K – UTILITY PROJECTS WORKSHEET FOR STANDARD APPLICATIONS



**UTILITY PROJECTS;
PROJECTS IN PUBLIC RIGHT-OF-WAY
PROJECT-SPECIFIC WORKSHEET
FOR STANDARD APPLICATION**
Water Division/Land Resources Management
Wetlands Bureau
[Check the Status of your Application](#)

RSA/Rule: RSA 482-A/ Env-Wt 521

APPLICANT LAST NAME, FIRST NAME, M.I.: Eversource Energy, Attn: Kurt Nelson

This worksheet summarizes the criteria and requirements for a Standard Permit for “Utility Projects; Projects in the Public Right-of-Way”, as outlined in Chapter Env-Wt 500. In addition to the project-specific criteria and requirements on this worksheet, all Standard Applications must meet the criteria and requirements listed in the [Standard Dredge and Fill Wetlands Permit Application form \(NHDES-W-06-012\)](#).

SECTION 1 - APPLICABILITY (Env-Wt 509.02(b); Env-Wt 521.01)
<p>This worksheet is for residential utility projects and other utility projects within a public right-of-way.</p> <p>Do not use this worksheet for utility projects that involve the construction of a substation, parking lot, or storage facility on utility property, which must be reviewed under the standards for commercial projects specified in Env-Wt 524.</p> <p>Do not use this worksheet if the project is located in a coastal (tidal) area.</p>
SECTION 2 - APPROVAL CRITERIA FOR STANDARD UTILITY PERMITS (Env-Wt 521.03)
<p>In addition to meeting the criteria established in Env-Wt 300, an application for a utility project must meet the following approval criteria:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> If the project as a whole crosses multiple properties, it is submitted as a single project and is not segmented into multiple proposed projects for the purpose of avoiding eligibility or classification requirements. <input checked="" type="checkbox"/> The project is, to the greatest extent practicable, within existing rights-of-way and developed areas. <input checked="" type="checkbox"/> Construction will be undertaken in the least environmentally-impactful manner. <input checked="" type="checkbox"/> If the project involves greater than one acre of contiguous permanent wetland or watercourse impact, an off-site alternatives analysis is done.
SECTION 3 - APPLICATION REQUIREMENTS FOR UTILITY PROJECTS (Env-Wt 521.04)
<p>An application for a utility project must include the following project-specific information:</p> <p>A plan showing:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> The extent and location of all wetlands and watercourses within the project area. <input checked="" type="checkbox"/> A wetland delineation, functional assessment, and impact analysis in accordance with Env-Wt 300. <input checked="" type="checkbox"/> The location of any existing utility corridors and facilities. <input checked="" type="checkbox"/> The location of the proposed utility corridors and facilities. <input checked="" type="checkbox"/> The location of any proposed impacts, crossings, construction areas, and clearings.

- A recent aerial photograph of the project area overlain by the items specified above.
- An invasive species control plan.
- A construction sequence plan describing measures proposed to minimize impacts to water quality, impacts to nesting and breeding species, and to prevent compaction of wetlands soils.
- The locations of staging areas, off right-of-way access roads, temporary access roads, and new station locations.

A description of the methods, techniques, vehicles, and equipment proposed to access and conduct the project.

Prior to the start of work, perimeter erosion controls (i.e. silt fence and/or straw wattle) will be temporarily installed in uplands to prevent sedimentation into wetlands and protect water quality. In wetlands, replacement of the structures will be completed from temporary work pads constructed using timber mats. Timber matting is utilized to prevent rutting and compaction of wetland soils. A drill rig and crane will be operated from temporary work pads to excavate the new pole locations, install the caisson grounding rings, and erect the structures, respectively. Upon completion of work, exposed soils in impacted areas will be restored to original grades, seeded with native seed mix as necessary, and stabilized using jute erosion control blankets as necessary or loose mulch.

A description of measures proposed to minimize and avoid impacts to wetlands and surface waters.

Impacts to wetlands have been minimized and avoided to the greatest extent by utilizing existing upland access routes where possible, utilizing temporary timber matting to access through wetlands, and adjusting access to cross the narrowest portion of wetlands. Off right-of-way access routes are proposed to further avoid and minimize impacts to wetland but are dependent on securing agreements with underlying property owners. Where agreements are secured, Eversource will utilize off ROW access routes to avoid and minimize wetland impact. Although access and work pad placement within wetlands is necessary due to the required engineered span widths between structures, impacts were minimized by avoiding wetlands to the greatest extent possible while continuing to provide safe and adequate work areas for construction and meeting engineering constraints. Upon completion of construction, timber matting will be removed and temporarily impacted wetland areas will be seeded, as necessary, and mulched for restoration.

SECTION 4 - DESIGN & CONSTRUCTION REQUIREMENTS FOR UTILITY PROJECTS (Env-Wt 521.05)

In addition to the design and construction requirements in Env-Wt 300, the following requirements apply to utility projects:

- The project must be designed to avoid and minimize construction access over, or work in or upon, organic soils.
- The project must be designed in accordance with Env-Wt 313.03.
- Construction access or work shall be prohibited in priority resource areas unless the work:
 - Is authorized as an SPN or a project type exception under Env-Wt 407, or
 - Causes only temporary impacts.
- All project activities must be performed, located, constructed, and maintained in accordance with the [Best Management Practices Manual, Utility Maintenance in and Adjacent to Wetlands and Waterbodies in New Hampshire](#) (Utility BMPs).
- No project shall cause permanent filling of wetlands in excess of 10,000 square feet unless mitigation is provided in accordance with Env-Wt 800.
- Swamp mats shall be:
 - Used in any area necessary to provide access,
 - Removed as soon as the work is completed, and
 - In no case left in place longer than one growing season.

SECTION 5 - MAINTENANCE & REPAIR (Env-Wt 521.07)

- Maintenance and repair must be carried out in accordance with the Utility BMPs.

SECTION 6 - UTILITY PROJECT CLASSIFICATION (Env-Wt 521.06)

Refer to Env-Wt 521.06 for project classification.



APPENDIX L – CERTIFIED MAIL RECEIPTS



APPENDIX M - LIMITATIONS



USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) has prepared this report on behalf of, and for the exclusive use of Eversource Energy ("Client") for the stated purpose(s) and location(s) identified in the report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not identified in the agreement, for any use, without our prior written permission, shall be at that party's risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Report and/or proposal, and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the data gathered and observations made during the course of our work. Conditions other than described in this report may be found at the subject location(s).
3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made.

LIMITS TO OBSERVATIONS

4. Natural resource characteristics are inherently variable. Biological community composition and diversity can be affected by seasonal, annual or anthropogenic influences. In addition, soil conditions are reflective of subsurface geologic materials, the composition and distribution of which vary spatially.
5. The observations described in this report were made on the dates referenced and under the conditions stated therein. Conditions observed and reported by GZA reflect the conditions that could be reasonably observed based upon the visual observations of surface conditions and/or a limited observation of subsurface conditions at the specific time of observation. Such conditions are subject to environmental and circumstantial alteration and may not reflect conditions observable at another time.
6. The conclusions and recommendations contained in this report are based upon the data obtained from a limited number of surveys performed during the course of our work on the site, as described in the Report. There may be variations between these surveys and other past or future surveys due to inherent environmental and circumstantial variability.

RELIANCE ON INFORMATION FROM OTHERS

7. Preparation of this Report may have relied upon information made available by Federal, state and local authorities; and/or work products prepared by other professionals as specified in the report. Unless specifically stated, GZA did not attempt to independently verify the accuracy or completeness of that information.

COMPLIANCE WITH REGULATIONS AND CODES

8. GZA's services were performed to render an opinion on the presence and/or condition of natural resources as described in the Report. Standards used to identify or assess these resources as well as regulatory jurisdiction, if any, are stated in the Report. Standards for identification of jurisdictional resources and regulatory control over them may vary between governmental agencies at Federal, state and local levels and are subject to change over time which may affect the conclusions and findings of this report.



NEW INFORMATION

9. In the event that the Client or others authorized to use this report obtain information on environmental regulatory compliance issues at the site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this work, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

10. GZA recommends that we be retained to provide further investigation, if necessary, which would allow GZA to (1) observe compliance with the concepts and recommendations contained herein; (2) evaluate whether the manner of implementation creates a potential new finding; and (3) evaluate whether the manner of implementation affects or changes the conditions on which our opinions were made.



GZA GeoEnvironmental, Inc.



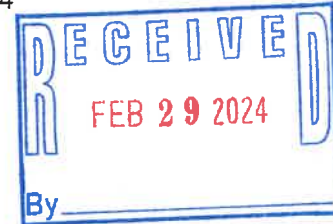
The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

February 22, 2024

CPI MANAGEMENT LLC
ROB SIMMONS
225 FRANKLIN STREET FLOOR 26
BOSTON MA 02110



Re: Administrative Completeness Notice – Standard Dredge and Fill Wetlands Permit Application (RSA 482-A)
NHDES File Number: 2024-00453
Subject Property: 53 Green Street, Portsmouth, Tax Map #119, Lot #2

Dear Applicant:

On February 22, 2024, the New Hampshire Department of Environmental Services (NHDES) Wetlands Bureau received the above-referenced Standard Dredge and Fill Wetlands Permit Application (Application). On February 22, 2024, NHDES determined the Application was administratively complete in accordance with RSA 482-A:3, XIV.

The Application has been added to the technical review queue for compliance review. This application shall be reviewed in accordance with the timeframes established under RSA 482-A:3, XIV. The language of RSA 482-A:3, XIV has been provided on the reverse of this document for your reference. The status of the application is available at <https://www4.des.state.nh.us/lrmonestop/>.

Please note that with the 2022 U.S. Army Corps of Engineers NH General Permit, additional mitigation may be required under the Clean Water Act. If your project has 5,000 square feet or greater of non-tidal wetlands impacts, impacts to tidal wetlands, stream work greater than 200 linear feet or proposes discharge of dredge or fill material within a vernal pool depression, please contact the USACE at 1-978-318-8832, 1-978-318-8295, or by email at cenae-r-nh@usace.army.mil to see if additional mitigation may be required from the USACE.

Please note this letter is **not** a permit or authorization to begin work. If you have any questions, please contact the Wetlands Bureau at (603) 271-2147.

Sincerely,

Melissa F. Rusinski
Program Assistant I, Wetlands Bureau
Land Resources Management, Water Division

cc: STONE CREEK REALTY LLC DOUGLAS PINCIARO Owner
TIGHE & BOND INC NEIL HANSEN Agent

RSA 482-A:3, XIV

- (a) In processing an application for permits under this chapter, except for a permit by notification, the department shall:
- (1) Within 10 days of receipt by the department, issue a notice of administrative completeness or send notice to the applicant, at the address provided on the application, identifying any additional information required to make the application administratively complete and providing the applicant with the name and telephone number of the department employee to whom all correspondence shall be directed by the designated department employee regarding incompleteness of the application. Each receipt of additional information in response to any notice shall re-commence the 10-day period until the department issues a notice of administrative completeness. Any notice of incompleteness sent under this subparagraph shall specify that the applicant or authorized agent shall submit such information as soon as practicable and shall notify the applicant or authorized agent that if the requested information is not received within 60 days of the notice, the department shall deny the application.
 - (2) Within 50 days of the issuance of a notice of administrative completeness for projects where the applicant proposes under one acre of jurisdictional impact and 75 days for all other projects, request any additional information that the department is permitted by law to require to complete its evaluation of the application, together with any written technical comments the department deems necessary. Such request and technical comments may be sent by electronic means if the applicant or authorized agent has indicated an agreement to accept communications by electronic means, either by so indicating on the application or by a signed statement from the applicant or authorized agent that communicating by electronic means is acceptable. Any request for additional information under this subparagraph shall specify that the applicant submit such information as soon as practicable and shall notify the applicant that if the requested information is not received within 60 days of the request, the department shall deny the application. The department shall grant an extension of this 60-day time period upon request of the applicant.
 - (3) Where the department requests additional information pursuant to subparagraph (a)(2), within 30 days of the department's receipt of a complete response to the department's information request:
 - (A) Approve the application, in whole or in part, and issue a permit; or
 - (B) Deny the application and issue written findings in support of the denial; or
 - (C) Schedule a public hearing within 30 days in accordance with this chapter and rules adopted by the commissioner; or
 - (D) Extend the time for rendering a decision on the application for good cause and with the written agreement of the applicant; or
 - (4) Where no request for additional information is made pursuant to subparagraph (a)(2), within 50 days from the issuance of the notice of administrative completeness for proposed projects under one acre of jurisdictional impact, or 75 days for all others:
 - (A) Approve the application, in whole or in part, and issue a permit; or
 - (B) Deny the application and issue written findings in support of the denial; or
 - (C) Schedule a public hearing within 30 days in accordance with this chapter and rules adopted by the commissioner; or
 - (D) Extend the time for rendering a decision on the application for good cause and with the written agreement of the applicant.
 - (5) Where the department has held a public hearing on an application filed under this chapter, within 45 days following the closure of the hearing record, approve the application in whole or in part, and issue a permit or deny the application and issue written findings in support of the denial.
- (b) (1) The time limits prescribed by this paragraph shall supersede any time limits provided in any other provision of law. The time limits prescribed by this paragraph shall not apply to applications submitted by the department of transportation, for which time limits shall be set by a memorandum of agreement between the commissioner of the department of environmental services and the commissioner of the department of transportation. If the department fails to act within the applicable time frame established in subparagraphs (a)(3), (a)(4), and (a)(5), the applicant may ask the department to issue the permit by submitting a written request. If the applicant has previously agreed to accept communications from the department by electronic means, a request submitted electronically by the applicant shall constitute a written request.
- (2) Within 14 days of the date of receipt of a written request from the applicant to issue the permit, the department shall:

- (A) Approve the application, in whole or in part, and issue a permit; or
 - (B) Deny the application and issue written findings in support of the denial.
- (3) If the department does not issue either a permit or a written denial within the 14-day period, the applicant shall be deemed to have a permit by default and may proceed with the project as presented in the application. The authorization provided by this subparagraph shall not relieve the applicant of complying with all requirements applicable to the project, including but not limited to requirements established in or under this chapter, RSA 485-A relating to water quality, and federal requirements.
- (4) Upon receipt of a written request from an applicant, the department shall issue written confirmation that the applicant has a permit by default pursuant to subparagraph (b)(3), which authorizes the applicant to proceed with the project as presented in the application and requires the work to comply with all requirements applicable to the project, including but not limited to requirements established in or under this chapter, and RSA 485-A relating to water quality, and federal requirements.
- (c) If extraordinary circumstances prevent the department from conducting its normal function, time frames prescribed by this paragraph shall be suspended until such condition has ended, as determined by the commissioner.
- (d) The time limits prescribed by this paragraph shall not apply to an application filed after the applicant has already undertaken some or all of the work covered by the application, or where the applicant has been adjudicated after final appeal, or otherwise does not contest, the department's designation as a chronic non-complier in accordance with rules adopted pursuant to this chapter.
- (e) Any request for an amendment to an application or permit shall be submitted to the department on the appropriate amendment form. Any request for a significant amendment to a pending application or an existing permit which changes the footprint of the permitted fill or dredge area shall be deemed a new application subject to the provisions of RSA 482-A:3, I and the time limits prescribed by this paragraph. "Significant amendment" means an amendment which changes the proposed or previously approved acreage of the permitted fill or dredge area by 20 percent or more, includes a prime wetland, or elevates the project's impact classification. This meaning of "significant amendment" shall not apply to an application amendment that is in response to a request from the department.
- (f) The department may extend the time for rendering a decision under subparagraphs (a)(3)(D) and (a)(4)(D), without the applicant's agreement, on an application from an applicant who, within the 5 years preceding the application, has been determined, after the exhaustion of available appellate remedies, to have failed to comply with this chapter or any rule adopted or permit or approval issued under this chapter, or to have misrepresented any material fact made in connection with any activity regulated or prohibited by this chapter, pursuant to an action initiated under RSA 482-A:13, RSA 482-A:14, or RSA 482-A:14-b. The length of such an extension shall be no longer than reasonably necessary to complete the review of the application, but shall not exceed 20 days unless the applicant agrees to a longer extension. The department shall notify the applicant of the length of the extension.
- (g) The department may suspend review of an application for a proposed project on a property with respect to which the department has commenced an enforcement action against the applicant for any violation of this chapter, RSA 483-B, RSA 485-A:17, or RSA 485-A:29-44, or of any rule adopted or permit or approval issued pursuant to this chapter, RSA 483-B, RSA 485-A:17, or RSA 485-A:29-44. Any such suspension shall expire upon conclusion of the enforcement action and completion of any remedial actions the department may require to address the violation; provided, however, that the department may resume its review of the application sooner if doing so will facilitate resolution of the violation. The department shall resume its review of the application at the point the review was suspended, except that the department may extend any of the time limits under this paragraph and its rules up to a total of 30 days for all such extensions. For purposes of this subparagraph, "enforcement action" means an action under RSA 482-A:13, RSA 482-A:14, RSA 482-A:14-b, RSA 483-B:18, RSA 485-A:22, RSA 485-A:42, or RSA 485-A:43.



The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

February 22, 2024

PORTSMOUTH MUNICIPAL CLERK/CONSERVATION COMMISSION
1 JUNKINS AVE
PORTSMOUTH NH 03801

Re: Received Standard Dredge and Fill Wetlands Permit Application (RSA 482-A)
NHDES File Number: 2024-00453
Subject Property: 53 Green Street, Portsmouth, Tax Map #119, Lot #2

Dear Sir or Madam:

On February 22, 2024, the New Hampshire Department of Environmental Services (NHDES) Wetlands Bureau received the above-referenced Standard Dredge and Fill Wetlands Permit Application (Application). On February 22, 2024, NHDES determined the Application was administratively complete in accordance with RSA 482-A:3, XIV. *Please note this letter is **not** a permit or authorization to begin work.*

Pursuant to RSA 482-A:11, III, if notification by a local conservation commission, local river management advisory committee, or the New Hampshire Rivers Council pursuant to this paragraph is not received by the department within 14 days (**March 5, 2024**) following the date the notice is filed with the municipal clerk, the department shall not suspend its normal action, but shall proceed as if no notification has been made. Please include the NHDES file number on the written notification.

Please provide a copy of this letter to all local level departments, boards, and commissions. Pursuant to current state laws and regulations, NHDES is not authorized to consider local zoning and regulatory issues pertaining to a project. These issues must be addressed at the local level.

If you have any questions, please contact the Wetlands Bureau at (603) 271-2147.

Sincerely,

Melissa F. Rusinski
Application Receipt Center, Wetlands Bureau
Land Resources Management, Water Division

www.des.nh.gov

29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095
NHDES Main Line: (603) 271-3503 • Subsurface Fax: (603) 271-6683 • Wetlands Fax: (603) 271-6588
TDD Access: Relay NH 1 (800) 735-2964



The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

WETLANDS AND NON-SITE SPECIFIC PERMIT 2023-02040

NOTE CONDITIONS

PERMITTEE: UNITIL
325 WEST ROAD
PORTSMOUTH NH 03801

PROJECT LOCATION: CORPORATE DRIVE, PORTSMOUTH
TAX MAP #MDL-94 901C, LOT #0303-0006-0000

WATERBODY: UNNAMED WETLAND

APPROVAL DATE: JANUARY 05, 2024 **EXPIRATION DATE:** JANUARY 05, 2029

Based upon review of permit application 2023-02040 in accordance with RSA 482-A and RSA 485-A:17, the New Hampshire Department of Environmental Services (NHDES) hereby issues this Wetlands and Non-Site Specific Permit. To validate this Permit, signatures of the Permittee and the Principal Contractor are required.

PERMIT DESCRIPTION:

Dredge and fill 3,700 square feet (SF) within palustrine wet meadow in order to replace and expand an existing natural gas pipeline inspection station to a 20 foot wide by 110 foot long launching and receiving station that includes the construction of 20 foot wide gravel access road, and installing a perimeter security fence. Temporarily impact 300 SF of palustrine wet meadow to replace approximately 75 linear feet of existing natural gas pipeline.

Waive Env-Wt 311.10 to relieve the applicant from the requirement to perform a functional assessment.

THIS PERMIT IS SUBJECT TO THE FOLLOWING PROJECT-SPECIFIC CONDITIONS:

1. All work shall be done in accordance with approved plans dated July 12, 2023, by Process Pipeline Services, Inc. and received by the NH Department of Environmental Services (NHDES) on July 26, 2023, in accordance with Env-Wt 307.16.
2. In accordance with Env-Wt 521.03(c), construction shall be undertaken in the least environmentally impactful manner.
3. In accordance with Env-Wt 521.05(c), all project activities shall be performed, located, constructed, and maintained in accordance with the Utility BMPs.
4. No activity shall be conducted in such a way as to cause or contribute to any violation of surface water quality standards per Env-Wt 307.03(a).
5. All work including management of soil stockpiles, shall be conducted so as to minimize erosion, minimize sediment transfer to surface waters or wetlands, and minimize turbidity in surface waters and wetlands per Env-Wt 307.03(b).
6. In accordance with Env-Wt 307.03(c)(1), water quality control measures shall be selected and implemented based on the size and nature of the project and the physical characteristics of the site, including slope, soil type, vegetative cover, and proximity to jurisdictional areas.
7. In accordance with Env-Wt 307.03(c)(3), water quality control measures shall be installed prior to start of work and in accordance with the manufacturer's recommended specifications.
8. In accordance with Env-Wt 307.03(c)(2), water quality control measures shall be comprised of wildlife-friendly erosion control materials if erosion control blankets are utilized.

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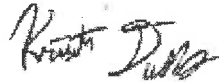
9. In accordance with Env-Wt 307.03(c)(5), water quality control measures shall be maintained so as to ensure continued effectiveness in minimizing erosion and retaining sediment on-site during and after construction.
10. In accordance with Env-Wt 307.03(c)(6), water quality control measures shall remain in place until all disturbed surfaces are stabilized to a condition in which soils on the site will not experience accelerated or unnatural erosion by achieving and maintaining a minimum of 85% vegetative cover using an erosion control seed mix, whether applied in a blanket or otherwise, that is certified by its manufacturer as not containing any invasive species; or placing and maintaining a minimum of 3 inches of non-erosive material such as stone.
11. In accordance with Env-Wt 307.03(c)(7), temporary water quality control methods shall be removed upon completion of work when compliance with Env-Wt 307.03(c)(6) is achieved.
12. In accordance with Env-Wt 307.05(e), to prevent the use of soil or seed stock containing nuisance or invasive species, the contractor responsible for work shall follow Best Management Practices for the Control of Invasive and Noxious Plant Species (Invasive Plant BMPs).
13. In accordance with Env-Wt 307.11(b), limits of fill shall be clearly identified prior to commencement of work and controlled in accordance with Env-Wt 307.03 to ensure that fill does not spill over or erode into any area where filling is not authorized.
14. In accordance with Env-Wt 307.11(a), fill shall be clean sand, gravel, rock, or other material that meets the project's specifications for its use; and does not contain any material that could contaminate surface or groundwater or otherwise adversely affect the ecosystem in which it is used.
15. In accordance with Env-Wt 307.11(e), fill shall be not placed so as to direct flows onto adjacent or down-current property.
16. In accordance with Env-Wt 307.03(h), equipment shall be staged and refueled outside of jurisdictional areas (unless allowed) and in accordance with Env-Wt 307.15.
17. In accordance with Env-Wt 307.03(g)(1), the person in charge of construction equipment shall inspect such equipment for leaking fuel, oil, and hydraulic fluid each day prior to entering surface waters or wetlands or operating in an area where such fluids could reach groundwater, surface waters, or wetlands.
18. In accordance with Env-Wt 307.03(g)(3) and (4), the person in charge of construction equipment shall maintain oil spill kits and diesel fuel spill kits, as applicable to the type(s) and amount(s) of oil and diesel fuel used, on site so as to be readily accessible at all times during construction; and train each equipment operator in the use of the spill kits.
19. In accordance with Env-Wt 307.03(g)(2), the person in charge of construction equipment shall repair any leaks prior to using the equipment in an area where such fluids could reach groundwater, surface waters, or wetlands.
20. In accordance with Env-Wt 307.12(i), wetland areas where permanent impacts are not authorized shall be restored to their pre-impact conditions and elevation by replacing the removed soil and vegetation in their pre-construction location and elevation such that post-construction soil layering and vegetation schemes are as close as practicable to pre-construction conditions.

THIS PERMIT IS SUBJECT TO THE FOLLOWING GENERAL CONDITIONS:

1. Pursuant to RSA 482-A:12, a copy of this permit shall be posted in a secure manner in a prominent place at the site of the approved project.
2. In accordance with Env-Wt 313.01(a)(5), and as required by RSA 482-A:11, II, work shall not infringe on the property rights or unreasonably affect the value or enjoyment of property of abutting owners.
3. In accordance with Env-Wt 314.01, a standard permit shall be signed by the permittee, and the principal contractor who will build or install the project prior to start of construction, and will not be valid until signed.
4. In accordance with Env-Wt 314.03(a), the permittee shall notify the department in writing at least one week prior to commencing any work under this permit.
5. In accordance with Env-Wt 314.08(a), the permittee shall file a completed notice of completion of work and certificate of compliance with the department within 10 working days of completing the work authorized by this permit.
6. In accordance with Env-Wt 314.06, transfer of this permit to a new owner shall require notification to, and approval of, the NHDES.

7. The permit holder shall ensure that work is done in a way that protects water quality per Env-Wt 307.03; protects fisheries and breeding areas per Env-Wt 307.04; protects against invasive species per Env-Wt 307.05; meets dredging activity conditions in Env-Wt 307.10; and meets filling activity conditions in Env-Wt 307.11.
8. This project has been screened for potential impact to known occurrences of protected species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or only cursory surveys have been performed, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species. This permit does not authorize in any way the take of threatened or endangered species, as defined by RSA 212-A:2, or of any protected species or exemplary natural communities, as defined in RSA 217-A:3.
9. In accordance with Env-Wt 307.06(a) through (c), no activity shall jeopardize the continued existence of a threatened or endangered species, a species proposed for listing as threatened or endangered, or a designated or proposed critical habitat under the Federal Endangered Species Act, 16 U.S.C. §1531 et seq.; State Endangered Species Conservation Act, RSA 212-A; or New Hampshire Native Plant Protection Act, RSA 217-A.
10. In accordance with Env-Wt 307.02, and in accordance with federal requirements, all work in areas under the jurisdiction of the U.S. Army Corps of Engineers (USACE) shall comply with all conditions of the applicable state general permit.

APPROVED:



Kristin L. Duclos
Wetlands Specialist, Wetlands Bureau
Land Resources Management, Water Division

THE SIGNATURES BELOW ARE REQUIRED TO VALIDATE THIS PERMIT (Env-Wt 314.01).

PERMITTEE SIGNATURE (required)

PRINCIPAL CONTRACTOR SIGNATURE (required)



The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

AMENDED WETLANDS AND NON-SITE SPECIFIC PERMIT 2021-00641

NOTE CONDITIONS

PERMITTEE: 120-0 WILD ROSE LANE LLC
209 WATER STREET
NEWBURYPORT MA 01950

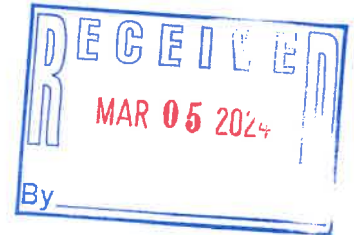
PROJECT LOCATION: 60 PLEASANT POINT DRIVE, PORTSMOUTH
TAX MAP #207, LOT #13

WATERBODY: PISCATAQUA RIVER

AMENDMENT DATE: DECEMBER 05, 2023

APPROVAL DATE: AUGUST 4, 2021

EXPIRATION DATE: AUGUST 04, 2026



Based upon review of permit application 2021-00641 in accordance with RSA 482-A and RSA 485-A:17, the New Hampshire Department of Environmental Services (NHDES) hereby issues this Wetlands and Non-Site Specific Permit. To validate this Permit, signatures of the Permittee and the Principal Contractor are required.

AMENDED PERMIT DESCRIPTION:

Impact 1,546 square feet of tidal wetland and 120 square feet of previously-developed upland tidal buffer zone to construct a tidal docking structure consisting of a 6 foot by 20 foot access way to a 6 foot by 150 foot fixed pier connected to a 3 foot by 50 foot ramp connected to a 10 foot by 40 foot float secured by six 4 foot wide by 4 foot long concrete block moorings. The overall structure length, seaward of the highest observable tide line, is 210 feet, providing two slips on 508 feet of frontage along the Piscataqua River.

THIS PERMIT IS SUBJECT TO THE FOLLOWING AMENDED PROJECT-SPECIFIC CONDITIONS:

1. [AMENDED] All work shall be done in accordance with the approved amended plan sheet C2 titled "NHDES Permit Plan" dated January 2021, and revised through September 26, 2023, by Ambit Engineering Inc., and last received by the NH Department of Environmental Services (NHDES) on October 30, 2023, and the approved amended plan sheet D1 titled "Dock Details" dated January 2021, and revised through May 19, 2023, by Ambit Engineering Inc., and last received by the NH Department of Environmental Services (NHDES) on May 22, 2023, in accordance with Env-Wt 307.16.
2. This permit shall not be effective until the permittee records this permit at the Rockingham County Registry of Deeds. Any limitations or conditions in the permit so recorded shall run with the land beyond the expiration of the permit. The permittee shall provide the NHDES with a copy of the permit stamped by the registry with the book and page and date of receipt, in accordance with New Hampshire Administrative Rule Env-Wt 314.02(b) and (c).
3. The ramp and float portions of residential tidal docks shall be seasonal and removed from the water during the non-boating season, in accordance with Env-Wt 606.06(b).
4. All work shall be done at low tide, in the dry, when the work area is fully exposed, in accordance with Env-Wt 609.10(b)(4).
5. Tidal docking installation shall be done by barge or upland to prevent the driving of construction equipment in or through tidal waters/wetlands or on the bottom of the inter-tidal zone, in accordance with Env-Wt 606.05(b).

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6. Tidal docking construction shall be done in accordance with the standard conditions in Env-Wt 307.
7. Heavy equipment shall not be operated in any jurisdictional area unless specifically authorized by this permit, in accordance with Env-Wt 307.15(a).
8. In accordance with Env-Wt 307.03(h), equipment shall be staged and refueled outside of jurisdictional areas and in accordance with Env-Wt 307.15.
9. In accordance with Env-Wt 307.03(g)(1), the person in charge of construction equipment shall inspect such equipment for leaking fuel, oil, and hydraulic fluid each day prior to entering surface waters or wetlands or operating in an area where such fluids could reach groundwater, surface waters, or wetlands.
10. In accordance with Env-Wt 307.03(g)(2), the person in charge of construction equipment shall repair any leaks prior to using the equipment in an area where such fluids could reach groundwater, surface waters, or wetlands.
11. In accordance with Env-Wt 307.03(g)(3) and (4), the person in charge of construction equipment shall maintain oil spill kits and diesel fuel spill kits, as applicable to the type(s) and amount(s) of oil and diesel fuel used, on site so as to be readily accessible at all times during construction; and train each equipment operator in the use of the spill kits.

THIS PERMIT IS SUBJECT TO THE FOLLOWING GENERAL CONDITIONS:

1. Pursuant to RSA 482-A:12, a copy of this permit shall be posted in a secure manner in a prominent place at the site of the approved project.
2. In accordance with Env-Wt 313.01(a)(5), and as required by RSA 482-A:11, II, work shall not infringe on the property rights or unreasonably affect the value or enjoyment of property of abutting owners.
3. In accordance with Env-Wt 314.01, a standard permit shall be signed by the permittee, and the principal contractor who will build or install the project prior to start of construction, and will not be valid until signed.
4. In accordance with Env-Wt 314.03(a), the permittee shall notify the department in writing at least one week prior to commencing any work under this permit.
5. In accordance with Env-Wt 314.08(a), the permittee shall file a completed notice of completion of work and certificate of compliance with the department within 10 working days of completing the work authorized by this permit.
6. In accordance with Env-Wt 314.06, transfer of this permit to a new owner shall require notification to, and approval of, the NHDES.
7. The permit holder shall ensure that work is done in a way that protects water quality per Env-Wt 307.03; protects fisheries and breeding areas per Env-Wt 307.04; protects against invasive species per Env-Wt 307.05; meets dredging activity conditions in Env-Wt 307.10; and meets filling activity conditions in Env-Wt 307.11.
8. This project has been screened for potential impact to known occurrences of protected species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or only cursory surveys have been performed, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species. This permit does not authorize in any way the take of threatened or endangered species, as defined by RSA 212-A:2, or of any protected species or exemplary natural communities, as defined in RSA 217-A:3.
9. In accordance with Env-Wt 307.06(a) through (c), no activity shall jeopardize the continued existence of a threatened or endangered species, a species proposed for listing as threatened or endangered, or a designated or proposed critical habitat under the Federal Endangered Species Act, 16 U.S.C. §1531 et seq.; State Endangered Species Conservation Act, RSA 212-A; or New Hampshire Native Plant Protection Act, RSA 217-A.
10. In accordance with Env-Wt 307.02, and in accordance with federal requirements, all work in areas under the jurisdiction of the U.S. Army Corps of Engineers (USACE) shall comply with all conditions of the applicable state general permit.

APPROVED:



Kristin L. Duclos
Wetlands Specialist, Wetlands Bureau
Land Resources Management, Water Division

THE SIGNATURES BELOW ARE REQUIRED TO VALIDATE THIS PERMIT (Env-Wt 314.01).

PERMITTEE SIGNATURE (required)

PRINCIPAL CONTRACTOR SIGNATURE (required)

*NEW HAMPSHIRE
DEPARTMENT OF STATE*



I, David M. Scantun, Secretary Of State, of the State of New Hampshire, do hereby certify that the Governor and Executive Council, at their meeting on February 21, 2024 approved ITEM #115 Wild Rose Lane LLC's request to amend NH Department of Environmental Services Wetland Bureau (originally approved by G&C on 10/13/21, Item #69), to perform work on Piscataqua River in Portsmouth, NH.



In Testimony Whereof, I hereto set my hand and cause to be affixed the Seal of the State of New Hampshire, this twenty-first day of February, in the year of Our Lord, two thousand and twenty-four.

A handwritten signature in black ink, appearing to read "David M. Scantun".

Secretary of State