PLANNING BOARD PORTSMOUTH, NEW HAMPSHIRE

EILEEN DONDERO FOLEY COUNCIL CHAMBERS CITY HALL, MUNICIPAL COMPLEX, 1 JUNKINS AVENUE

7:00 PM Public Hearings begin

June 18, 2025

AGENDA

REGULAR MEETING 7:00pm

I. APPROVAL OF MINUTES

A. Approval of the May 15, 2025 meeting minutes.

II. PUBLIC HEARINGS - NEW BUSINESS

The Board's action in these matters has been deemed to be quasi-judicial in nature. If any person believes any member of the Board has a conflict of interest, that issue should be raised at this point or it will be deemed waived.

- A. The request of Sea Level LLC (Owner), for property located at 185-187 Wentworth House Road requesting a Wetland Conditional Use Permit in accordance with Section 10.1017.50 for the required remediation of PCBs by the EPA and associated impacts within a tidal wetland and previously disturbed wetland buffer including removal of sediment from existing salt marsh. The project proposes to add 6" of sand with the addition of planting saltmarsh bulrush plugs and salt tolerant grass mix and adding boulder armoring and stone riprap for bank stability. Additional proposed impacts to the buffer include the removal of 0.5 cubic yards of soil in two different buffer locations with one of these areas proposed to be covered with a geotextile liner and 5,000 s.f. concrete cap. Said property is located on Assessor Map 201 Lot 12 and lies within the Single Residence B (SRB) and Waterfront Business (WB) Districts. (LU-25-2)
- **B.** The request of **Jesse Warren Anderson (Owner)**, for property located at **224 Cate Street** requesting an after-the-fact Wetland Conditional Use Permit for restoration work within the City's 100' wetland buffer for unauthorized removal of vegetation within the vegetated no-cut buffer and removal of the groundcover on portions of the property that were within the protected wetland buffer without a permit. Said property is located on Assessor Map 173 Lot 3 and lies within the General Residence A (GRA) District. (LU-25-26)

- C. The request of **Strawbery Banke Inc. (Owner)**, for property located at **65 Washington Street** requesting an amended Site Plan approval for drainage and stormwater improvements. Said property is located on Assessor Map 104 Lot 7 and lies within the Mixed Residential Office (MRO) and Historic Districts. (LU-25-63)
- **D.** The request of **SLF Realty Group LLC (Owner)**, for property located at **400 Spaulding Turnpike** requesting an amended Site Plan approval to change the temporary access path to a permanent access path. Said property is located on Assessor Map 238 Lot 2 and lies within the Gateway Corridor (G1) District. (LU-25-50)
- E. The request of SLF Realty Group LLC (Owner), for property located at 400 Spaulding Turnpike requesting an after-the-fact Wetland Conditional Use Permit for permanent wetland buffer impacts that were not included in the original wetland conditional use permit for this project. The new request is an increase in wetland buffer impacts from 1,644 square feet to 3,685 square feet. Said property is located on Assessor Map 238 Lot 2 and lies within the Gateway Corridor (G1) District. (LU-25-50)
- **F. REQUEST TO POSTPONE** The request of **GIRI Portsmouth 505 Inc. (Owner),** for property located at **505 US Route 1 Bypass** requesting an amended Site Plan approval, and a Conditional Use Permit for Electric Vehicle fueling space B to install 4 EV fueling stations for 8 charging spaces. Said property is located on Assessor Map 234 Lot 5 and lies within the Gateway Corridor (G1) District. **REQUEST TO POSTPONE** (LU-25-66)
- G. REQUEST TO POSTPONE The request of GIRI Portsmouth 505 Inc. (Owner), for property located at 505 US Route 1 Bypass requesting a Wetland Conditional Use Permit in accordance with Section 10.1017.50. The project includes 1,434 square feet of impacts within the wetland buffer including 303 square feet of temporary impacts, 173 square feet of permanent impacts in the wetland buffer and 958 square feet conversion from pavement into grassed areas within the wetland buffer area. Said property is located on Assessor Map 234 Lot 5 and lies within the Gateway Corridor (G1) District. REQUEST TO POSTPONE (LU-25-66)
- H. The request of **Brora LLC (Owner)**, for property located at **0 Dunlin Way** requesting Design Review for the construction of three (3), six (6) story multifamily residential buildings consisting of approximately 270 dwelling units with associate site improvements. Said property is located on Assessor Map 213 Lot 12 and lies within the Office Research (OR) District and Gateway Neighborhood Overlay District (GNOD). (LUPD-25-6)

III. DESIGN REVIEW APPLICATION

A. 0 Dunlin Way (See Above)

IV. CITY COUNCIL REFERRALS

A. Petition to Layout a New Public Highway – Coakley Road Extension

V. OTHER BUSINESS

- **A.** 1035 Lafayette Rd Requesting 1-Year extensions to the Site Plan Review, and Development Site, Density Bonus and Off-Street Parking Conditional Use approvals that were granted on August 15, 2024. (LU-24-92)
- **B.** 806 US RT 1 Bypass Requesting 1-Year extensions to the Site Plan, which was granted a second extension on June 20, 2024, and the amended Site Plan approval granted on the same date. (LU-22-81)
- C. Chairman updates and discussion items
- **D.** Board discussion of Regulatory Amendments & other matters

VI. 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 hOuHiBUWShSs0Vvpw2Us8Q

PLANNING BOARD PORTSMOUTH, NEW HAMPSHIRE

EILEEN DONDERO FOLEY COUNCIL CHAMBERS CITY HALL, MUNICIPAL COMPLEX, 1 JUNKINS AVENUE

7:00 PM Public Hearings begin

May 15, 2025

MEMBERS PRESENT: Rick Chellman, Chairman; Beth Moreau, City Councilor;

Members Paul Giuliano, Andrew Samonas, William Bowen,

Ryann Wolf, and Alternate Frank Perier

ALSO PRESENT: Peter Stith, Planning Department Manager

MEMBERS ABSENT: Anthony Coviello, Vice-Chair; Karen Conard, City Manager;

Joseph Almeida, Facilities Manager

Chair Chellman called the meeting to order at 7:00 p.m. Alternate Frank Perier took a voting seat for the evening.

I. APPROVAL OF MINUTES

A. Approval of the April 17, 2025 meeting minutes.

Mr. Giuliano moved to **approve** the April 17 minutes as presented, seconded by Mr. Samonas. The motion **passed** with all in favor.

II. DETERMINATIONS OF COMPLETENESS

SUBDIVISION REVIEW

A. The request of **The City of Portsmouth (Owner)**, for property located at **100 Foundry Place**. The project is the subdivision of an existing parcel into five new parcels, with the existing structures to remain as currently existing, and no new construction proposed at this time.

Mr. Giuliano moved to accept the subdivision review as complete. Mr. Bowen seconded. The motion **passed** with all in favor, with Councilor Moreau abstained.

III. PUBLIC HEARINGS -- OLD BUSINESS

A. The request of Aviation Avenue Group (Owner), Kane Management Group LLC (Applicant), for property located at 100 New Hampshire Avenue requesting Amended Site Plan approval to modify a prior condition of approval. Said property is

located on Assessor Map 308 Lot 1 and lies within the Pease Industrial (PI) District. (LU-22-210)

SPEAKING TO THE PETITION

[Video timestamp 6:43] Attorney John Bosen was present on behalf of the applicant, with Neil Hansen of Tighe and Bond. Attorney Bosen said the truck entrances were put in place because there was a different user at the time that had a higher traffic count. He said the property now had two users that would generate less traffic, noting that Georgia Pacific would manufacture goods in Newington and transport them to the site where they would be stored. He explained how it would be a more efficient route, with less traffic coming into the Tradeport. He noted that the Board had a letter from the Pease Development Authority (PDA) in support of the request.

[Timestamp 8:45] Mr. Bowen asked if the intent was to build out the other portion of the lot over time. Attorney Bosen said it was not. City Council Representative Moreau noted that it was supposed to be a furniture delivery stop spot. Attorney Bosen agreed and said the traffic count would have been a lot higher. Chair Chellman aside what the difference would be in the number of trucks. Mr. Hansen said it would about half as many at a total of 34 fewer truck trips per day.

Chair Chellman opened the public hearing.

SPEAKING TO, FOR, OR AGAINST THE PETITION

No one spoke, and Chair Chellman closed the public hearing.

DECISION OF THE BOARD

Mr. Giuliano moved that the Board recommend approval of the request to remove the condition to the Pease Development Authority. Mr. Samonas seconded. The motion **passed** with all in favor.

B. The request of **909** West End LLC (Owner), for property located at **909** Islington St requesting a Conditional Use Permit in accordance with Section 10.1112.62 to allow 98 parking spaces where 103 are required. Said property is located on Assessor Map 172 Lot 7 and lies within the Character District 4-W (CD4-W) (LU-24-221)

SPEAKING TO THE PETITION

[Timestamp 11:15] Project engineer John Chagnon of Haley Ward was present on behalf of the applicant, with Meghan Boland of Chinburg Properties. Mr. Chagnon said they were requesting 98 parking spaces where 103 spaces were required and that they also wanted to provide shared parking on an adjacent parcel. He said removing one of the spaces on 99 Islington Street due to the change in use for a restaurant triggered the need. He said they did calculations for the peak hour demand under Portsmouth's shared use table and found that the shared use highest peak was 103 spaces required and that they were providing 98 spaces. He said they worked with the Technical Advisory Committee (TAC) to improve the lot and provide additional handicapped

spaces. He said they submitted the Conditional Use Permit (CUP) portion of the ordinance requirements and did a parking demand analysis that showed that they were 94 percent conforming. He said they used Shared Occupancy rate and ITT standards and that they were in proximity to residential areas within walking distance and the COAST bus stop. He said the shared parking between daytime and evening would make it an acceptable amount of parking uses. He said they would add bicycle racks. He said the parking spaces were adequate, given the nature of the West End's parking habits. He said the applicant also owned the Frank Jones property that had a similar mix of restaurant and office uses and that the gross parking requirements at that facility had less spaces than the current application and that the square footage per space was higher in the current application.

[Timestamp 15:16] Mr. Bowen asked if the former gas station at 921 Islington Street in front of the applicant's property would also be a restaurant. Mr. Chagnon said it was planned to convert it to a restaurant but that it was not the subject of the current application. Mr. Bowen said he was thinking about a parking issue if there was another restaurant in that area. He said one of the items on the submitted spreadsheet was Dow's Automotive Repair that showed a requirement of three spaces in the evening and eight spaces during the day. He said the data shown in the parking analysis was based on studies done in Texas and Tennessee about 15-20 years ago, and he asked why that data was submitted instead of the data from what currently existed. He also noted that probably half of the cars in the lot related to Dow's and that many people left their cars overnight. He said Loaded Question Brewing was also on the site and had significant evening activity. He said what the applicant submitted did not seem to conform to the City's recommendation. Mr. Chagnon said the parking demand was based on three things, one of which was Portsmouth's parking demand in the ordinance and quantified some square foot requirements based on the use. He said the spreadsheet had the use of the gross floor area and met the code in the ordinance. He said the required parking per gross floor area calculated to 2.1 and came to 3 rounded up. He said the ITE (Institute of Traffic Engineers) was the standard that they used for the ITE parking demand, which he further explained. He said Portsmouth also had a Shared Occupancy Rate table and that the project took the Portsmouth rates times of 8 to 5 and 6 to midnight and then took the highest ITE number within that band, which resulted in an occupancy rate of 103 during the daytime peak. He noted that Dow's had a fixed number of 10 spaces that they were allowed to use. It was further discussed. Chair Chellman said the Brewery Lane comparison was local data and had 2,500 square feet more as well as five more parking spaces, and he asked what the occupancy ratio was. Mr. Chagnon said Brewery Lane had one space per 350 square feet. Chair Chellman said he was a member of ITE and that their database had voluntarily-submitted information from engineers around the country, which was the reason Texas and Tennessee were included. He said things like parking and the context of an area were not that different geographically.

Chair Chellman opened the public hearing.

SPEAKING TO, FOR, OR AGAINST THE PETITION

No one spoke, and Chair Chellman closed the public hearing.

DECISION OF THE BOARD

- 1) Mr. Giuliano moved that the Board find that the Conditional Use Permit Application meets the requirements set forth in Section 10.1112.14 of the Ordinance and adopt the findings of fact as presented. Mr. Samonas seconded. The motion **passed** by a vote of 6-1, with Mr. Bowen voting against.
- 2) Mr. Giuliano moved that the Board grant the Conditional Use Permit with the following condition:
 - 2.1) The parking covenant shall be recorded at the Rockingham County Registry of Deeds.

Mr. Samonas seconded. The motion **passed** by a vote of 6-1, with Mr. Bowen voting against.

IV. PUBLIC HEARINGS – NEW BUSINESS

A. Lawrence Brewer and Joshua Ydstie (Owners), for property located at 253 Broad Street requesting a Conditional Use Permit from Section 10.814 for the construction of a new single-family dwelling with an Attached Accessory Dwelling Unit. Said property is located on Assessor Map 131 Lot 16 and lies within the General Residence A (GRA) District. (LU-25-54)

SPEAKING TO THE PETITION

[Timestamp 29:19] Architectural designer Angela Campbell was present on behalf of the applicant. She said the owner submitted an application for an Accessory Dwelling Unit (ADU) in October 203 and was granted a 7-ft side yard setback to allow them to put in a second driveway. She said they wanted to add a two-car garage and an ADU on the lower level for the owner's aging mother. She said the footprint was currently 1,500 square feet and they wanted to add another 1,000 square feet to it. She said there was an existing curb cut for a driveway that they wanted to shift to align with the proposed garage, and there was an existing curb cut that they wanted to reuse and have as a new driveway just for the ADU.

[Timestamp 32:15] Councilor Moreau said the applicant was tearing down what was there and starting over, and she asked if it was the current footprint. Ms. Campbell said it was not and explained why. She said since the time when they submitted the plan, they received the CAD survey plan, so they had a slight shift in the footprint of 24 inches.

Chair Chellman opened the public hearing.

SPEAKING TO, FOR, OR AGAINST THE PETITION

Dan Indoe of 239 Broad Street said he lived next door to the applicant and that he wrote a letter in 2023 in support of the 7-ft variance. He said he was in support of the new structure because it would be a nice upgrade to the neighborhood. He said he also supported the double driveway.

No one else spoke and Chair Chellman closed the public hearing.

DECISION OF THE BOARD [Timestamp 35:43]

- 1) Councilor Moreau moved that the Board find that the Conditional Use Permit Application meets the requirements set forth in Section 10.814.62 of the Ordinance and adopt the findings of fact as presented. Mr. Samonas seconded. The motion **passed** with all in favor.
- 2) Councilor Moreau moved that the Board grant the Conditional Use Permit with the following conditions:
 - 2.1) Documentation of the conditional use permit approval shall be recorded at the Rockingham County Registry of Deeds, together with an affidavit that either the principal dwelling unit or the accessory dwelling unit will be occupied by the owner of the dwelling as the owner's principal place of residence, as required by Section 10.814.22.
 - 2.2) A certificate of use issued by the Planning Department is required to verify compliance with the standards of this Section, including the owner occupancy and principal residency requirements. Said certificate shall be issued by the Planning Department upon issuance of a certificate of occupancy by the Inspection Department. A certificate of use shall not be issued prior to recording of documentation as required by this Ordinance.
 - 2.3) The certificate of use shall be renewed annually upon submission of such documentation as the Planning Department may require to verify continued compliance with the standards of this Section. Failure to comply with this requirement shall be deemed a violation of the ordinance and may be enforced as provided in Article 2.

Mr. Samonas seconded. The motion passed with all in favor.

Councilor Moreau said she appreciated that the applicant was fitting the project into the footprint of what would be the existing house and thought it met all the criteria.

B. The request of **Brian Lampert Revocable Trust (Owner), Lexie's Joint (Applicant)**, for property located at **218 Islington Street** requesting a Conditional Use Permit in accordance with Section 10.440, Use 19.50 for an outdoor dining and drinking area as an accessory use to a permitted principal use. Said property is located on Assessor Map 137 Lot 21 and lies within the Character District 4-L2 (CD4-L2) and Historic District. (LU-25-64)

SPEAKING TO THE PETITION

[Timestamp 37:18] Danielle Damsell, General Manager of Lexie's Joint, was present. She said the outdoor summer seating was proposed to be at the front and left of the lot. She said they would have four top tables that would add 16 seats to the restaurant and that they would work on getting a liquor license to extend to the outdoor seating.

[Timestamp 38:10] Mr. Samonas asked if the seating would be just under the overhang and not in front of the restaurant itself. Ms. Damsell agreed and said it would be completely blocked off and that temporary ropes would be added to seal off the area. Councilor Moreau noted that there was another unit and asked if Lexie's would have the use of that one. Ms. Damsell said they would stay within their unit and that the owner of the other unit was in favor of Lexie's having the outdoor seating in the summer.

SPEAKING TO, FOR, OR AGAINST THE PETITION

Chair Chellman noted that the Board received one letter in support of the project. No one spoke, and he closed the public hearing.

DECISION OF THE BOARD

- 1) Mr. Giuliano moved that the Board find that the Conditional Use Permit application meets the criteria set forth in Section 10.243.20 and to adopt the findings of fact <u>as presented.</u> Mr. Samonas seconded. The motion **passed** with all in favor.
- 2) Mr. Giuliano moved that the Board approve the Conditional Use Permit as presented. Mr. Samonas seconded. The motion **passed** with all in favor.
 - C. The request of The City of Portsmouth (Owner), for property located at 100 Foundry Place. The project is the subdivision of an existing parcel into five new parcels, with the existing structures to remain as currently existing, and no new construction proposed at this time. Said property is located on Assessor Map 138 Lot 60 and lies within the Downtown Overlay and Municipal (M) Districts. (LU-25-65)

SPEAKING TO THE PETITION

[Timestamp 41:20] Project engineer John Chagnon was present on behalf of the applicant, along with Director of the Department of Public Works (DPW) Peter Rice, John Quellette of Pinchen Environmental, and DPW project manager Christine Sproviero. Mr. Chagnon explained why they were there to request approval for a 5-lot subdivision. He said Lot 1 was the Rock St parking lot; Lot 2 was Foundry Place; Lot 3 was the parking garage lot; and Lot 4 was the Rock St parking area that included an area of the Foundry Place. He said Lot 5 was leftover land bounded by a retaining wall and that the purpose was to separate areas that were part of the Foundry Place Garage lot, which had restrictions based on historical uses at the site. He said if excavation was ever proposed, it would have to go through a rigorous environmental process. He said it separated the lots that were not germane to that treatment, which he named. He said the retaining wall on Lot 5 would need to be repaired, which would be more difficult if there had to be a lot of reporting under that area of use restriction requirements from the New Hampshire Department of Environmental Services (NHDES).

[Timestamp 46:00] Mr. Bowen said the Board had many meetings regarding 361 Hanover Street, Lot 5, and the wall. He asked if there was any implication for the 361 Hanover Street property. Mr. Rice said there was no connection to the proposed development at that site. He said the

intent was to separate that from the use restrictions and repair the wall and that it would be easier for Public Works to do maintenance. Mr. Quellette said that, as part of the remedial action plan they did for the property before it was built, there was a requirement at the end to do an Activity and Use Restriction, so they were shrinking up as much as possible the area that restricted them from developing the property going forward. He said the contamination that was defined on the property from the past were Lots 2 and 3. He said if anything were done to the other lots, it would have to go through a rigorous process with the State. He said the Activity and Use Restriction that they would submit to the State would go in as a draft so that there could be feedback from the State. Mr. Rice agreed, and it was further discussed.

Chair Chellman opened the public hearing.

SPEAKING TO, FOR, OR AGAINST THE PETITION

Mr. Chagnon said the State needed a definite area and currently the only one was Tax Map 138, Lot 60. He said the acquirement of that land was a number of different parcels and that it would be difficult to say which parcel had which deed, so the plan defined Lots 2 and 3.

No one else spoke, and Chair Chellman closed the public hearing.

DECISION OF THE BOARD

- 1) Mr. Samonas moved that the Board grant Preliminary and Final Subdivision Approval with the following conditions:
 - 1.1) The subdivision plan, and any easement plans and deeds shall be recorded simultaneously at the Registry of Deeds by the City or as deemed appropriate by the Planning Department.
 - 1.2) Property monuments shall be set as required by the Department of Public Works prior to the filing of the plat.
 - 1.3) GIS data shall be provided to the Department of Public Works in the form as required by the City.

Mr. Giuliano seconded. The motion passed with all in favor, with Councilor Moreau recused.

V. PRELIMINARY CONCEPTUAL CONSULTATION

A. The request of **Service Credit Union (Owner)**, for property located at **126 Lang Road** requesting Site Plan approval for construction of workforce housing in two 70-unit apartment buildings, a 30-unit workforce housing building, a 30-unit veteran housing building with possible daycare on the first floor and 35 market rate townhomes in 5 buildings with associate site improvements. Said property is located on Assessor Map 291 Lot 1-1 and lies within the Gateway Corridor (G1) District. (LUPD-25-7)

[Timestamp 51:37] Attorney John Bosen was present on behalf of the applicant and introduced Mike Mulhern of Service Credit Union that owned the parcel, Alex Finigan of the Preservation of Affordable Housing, project engineer Nicole Duquette, and architect Alan Tang of PROCON. Attorney Bosen said the program involved a master plan and proposed 170 workforce housing units that would also include veteran housing, a potential nonprofit daycare center, and 24 market rate townhomes to help subsidize the project's affordability. He said the intent was to use the low income tax credit and that the application was due by the end of September, so they proposed to break up the project into two applications. He said the first application was for the 270 workforce units and the parking that would need to be approved to meet the September deadline. He said the second application would be the phase for the rest of the project.

[Timestamp 54:35] Project engineer Nicole Duquette explained the history of the lot, which used to be Ralph's Trucking. She said Ralph's left in 2010 and the credit union was planned. She said there was a lot of wetland on the parcel and that about 10-1/2 acres of it could be used and the rest would remain as wetlands and some debris. She reviewed the master plan and said there would be two 70-unit buildings, (Buildings A and B), with a parking lot and other parking that would comprise the first application for the low income housing tax credit. She said the second application would be the 30-unit veteran housing with a potential daycare and an expanded parking lot, and to the north would be a potential workforce housing building of 30 units with parking to the north, and five 7-unit market rate townhouse buildings. She discussed the community space, green space, courtyard, concrete areas, and walking trails. She reviewed the stormwater and bioretention area and said there were some ledge on the site as well as some unsuitable material that would have to be moved. She said there was no water line in front of the site and that they would connect the Longmeadow Rd lines onto Lang Rd. She said they met the parking demand and would see if they needed less parking for the 140 units.

[Timestamp 1:07:08] Mr. Samonas asked if the front-facing 70 units would be hidden by the credit union building that was visible from Route One. Ms. Duquette said it would be visible but that the grades would go up toward Lafayette Rd and the building would sit farther down than the credit union lot. Mr. Samonas asked why the southern side of the 30 workforce housing units did not sit parallel to the veteran housing instead of toward Lang Rd. Ms. Duquette said it was a bioretention area owned by the City as an easement and that they also had to stay out of the buffer. She said the intent was to have the parking lot built in Phase 1 so that it could be expanded in Phase 2 without the expense of tearing it up. Mr. Samonas asked if there was a second egress plan in Phase 2. Ms. Duquette said there wasn't one currently. Mr. Samonas asked if the circular pavement area in Phase 2 would be able to egress toward the townhomes onto Lang Rd, noting that there would be a lot of traffic congestion. Ms. Duquette said it wasn't planned but would be no different than what the credit union had for their parking lot and that they would have the same amount of parking spaces. She said they could consider having a secondary access but might not able to slope it down enough to do it.

[Timestamp 1:13:17] Mr. Giuliano said the south unit for the veteran housing was good but the ones above it were facing the parking lot. Ms. Duquette said the intent was to have a sidewalk in the Phase 2 that would continue the road for the townhouses and possibly add a bit of a buffer to make it feel like a neighborhood road. Councilor Moreau said she was excited about the project because it included workforce housing and that she liked the idea of having the building

perpendicular so that one would not see just two giant buildings from the street. She suggested having shared parking with the credit union so that there would be less parking lots. She said she liked the idea of having trails through the buffer. She suggested that the applicant think about different aspects of the green space and the daycare and possibly a playground for the kids to make it family friendly. She said the COAST bus stop should be brought up in the application and that bike racks would be a good idea. Mr. Bowen suggested that the architectural style of the project look like "Portsmouth" and said it was asked at the community meeting that the architect consider State Street as an example. He said the head of COAST bus service would decide what the bus routes would be and would do what he could to accommodate the project. He said he was a veteran and was concerned about veteran housing but did not think there was a real need for it in Portsmouth, and he suggested that the applicant ensure that it was necessary instead of just doing it because they thought they should.

[Timestamp 1:22:32] Ms. Wolf asked if child care numbers were included in the parking space calculations. Ms. Duquette said the maximum enrollment for the daycare would be about 75 children but that they had not analyzed the parking yet. Ms. Wolf asked what ages the children would be. Mr. Mulhern said they were looking at another nonprofit to run the childcare center, so it would start with infants and would fall into the nonprofit's existing portfolio of childcare. Ms. Wolf asked if the applicant planned on having playground structures. Mr. Mulhern said they hoped to have a playground. Ms. Wolf asked how the townhouse residents would feel about having a childcare center next to them. Mr. Mulhern said the top priority was workforce housing and affordable childcare and that they would analyze the risk. In response to other questions from Ms. Wolf, Mr. Mulhern said the childcare center would be on the first floor and that the second and third floors would be veteran housing. He said Service Credit Union would be responsible for security for the childcare center. It was further discussed. Mr. Perier asked how far the existing debris extended into the wetlands and how it would be removed. Ms. Duquette said it would be discussed with the Conservation Commission.

[Timestamp 1:31:45] Chair Chellman asked if there was an environmental reason for the delineation between Phase 1 and Phase 2 or if it encompassed the first two buildings. Ms. Duquette said the first application would not require a CUP for encroachment into the wetland buffer but the second application would. Chair Chellman asked if the 30-unit building by itself would. Ms. Duquette said it would not but that the driveway onto Lang Road would. Chair Chellman said he saw some design opportunities that the applicant could think about. He asked why the 30-unit building couldn't be brought down by wrapping another building to have a bigger central area with more common space. He said the current plan had a wasted triangular space and a building that fronted on parking with two sides. He said the buildings could be shifted around and that there was an opportunity for more usable space and more parking efficiency. It was further discussed. He said it was important that workforce housing provide dignity to its residents and that there was a tension between creating an economical design and something people would be proud to live there. He said the applicant had done a lot but thought he could do a bit more. Mr. Samonas said there was a short turn for people coming from Lang Road and asked if a stop bar could be put at the exit of the small turnaround. He said delivery and emergency vehicles would have to have access all the way across the Longmeadow Road entrance to the Lang Road corner. Ms. Duquette said they would discuss it with the City Traffic Engineer. She said a stop bar on Lang Road might cause people to look back instead of just

looking left and right. Mr. Samonas said Beechstone Apartments had four egress points and the applicant just had one. Ms. Duquette said a second driveway on the lot would require a variance. Mr. Samonas asked about trash pickup. Ms. Duquette said there would be dumpsters in the south lot and a striped area for UPS vehicles, U-hauls, etc. Mr. Bowen asked where Amazon deliveries would go. Ms. Duquette said each building would have its own package room.

VI. DESIGN REVIEW APPLICATION ACCEPTANCE

A. The request of **Brora LLC (Owner)**, for property located at **0 Dunlin Way** requesting Design Review application for acceptance for the construction of three (3) six (6) story multifamily residential buildings consisting of approximately 270 dwelling units with associate site improvements. Said property is located on Assessor Map 213 Lot 12 and lies within the Office Research (OR) District and Gateway Neighborhood Overlay District (GNOD). (LUPD-25-6)

[Timestamp 1:40:45] Neil Hansen of Tighe and Bond and Kimery Poldrack of the Kane Company were present. Mr. Hansen said they wanted to return in June for a design review meeting. He noted that they submitted some updated site plans and detailed engineering plans.

[Timestamp 1:42:16] Chair Chellman asked what the parking numbers were and if they conformed to the CUP. Mr. Hansen said they were at 301 spaces and required 271. He said the plan had parking under Building C, and along the reconstructed frontage, there were 36 spaces that were not part of the count but would be utilized by site visitors. A possible parking deck was discussed. Mr. Hansen said they had parking under Building C but that a parking structure was not feasible for the project. Mr. Samonas asked if the parking arrangement could be done differently so that more recreational and green space could be added so that there wasn't a giant site of pavement. Mr. Hansen said 301 parking spaces for 274 units was already tight. He said they were utilizing the 20 percent public transit reduction, so they were lower than what would be required. He said the design would be refined further after more feedback. Chair Chellman suggested coordinating a site walk with the Conservation Commission, and it was further discussed. Mr. Hansen said they were trying to keep as big of a buffer as they could. Councilor Moreau recommended that the applicant discuss the project with the Dunlin Way residents. The barrier to Osprey Landing was discussed. Mr. Bowen asked what the traffic flow would be. Mr. Hansen said they would do a full traffic study. He said exiting through Dunlin Way would put someone into the Osprey Landing neighborhood, so it was not the most efficient way to leave the site. Mr. Bowen asked if Dunlin Way would be open or if the barrier would remain in place. Mr. Hansen said it would be up to the approval of TAC, the Fire Department, the Planning Board, and so on. Chair Chellman asked if it was a maximization of the site as far as density. Mr. Hansen said land-wise it was as much as they could fit in and that the parking was the limiting factor. Mr. Bowen asked if the applicant intended to do anything to differentiate the buildings architecturally from the other planned developments in Portsmouth to make the site more interesting. Mr. Hansen said their architect would speak to the design. Ms. Wolf said children might run through the parking lot and asked if there was anything to avoid that. It was further discussed, and Mr. Hansen said they would research it more when they got into the landscape design. Chair Chellman asked if there were amenities within the buildings. Ms. Poldrack said the first floor of Building B would have space for amenities like a possible gym and other things

normally in a multi-family project. She said they might do a play area on other nearby properties that they owned and that the applicant would also look into traffic calming. Chair Chellman asked if there would be a master plan at some point. Ms. Poldrack said they might do one in the future. Chair Chellman said it would be useful if the applicant shared broader ideas.

Councilor Moreau moved that the Board accept the application for Design Review and schedule a public hearing at the June 18, 2025 Planning Board meeting. Mr. Samonas seconded. The motion **passed** with all in favor.

VII. CITY COUNCIL REFERRALS

A. Islington and State Street Easements

[Timestamp 2:00:51] Mr. Stith said the easements were drainage ones in coordination with the work being done on Islington Street and that the work to secure easements across properties and connecting to State Street had been done.

Mr. Giuliano moved that the Board recommend that the City Council accept the drainage easements on 547/549 State Street and 72, 86, and 96 Islington Street. Councilor Moreau seconded. The motion **passed** with all in favor.

VIII. OTHER BUSINESS

A. Chairman Updates and Discussion Items

[Timestamp 2:02:33] Chair Chellman said he would let the Board know when the workshop discussion about the Master Plan would take place. He said the contract was signed. Mr. Stith said the City was having five weekly meetings with the consultants. He referenced two recent projects that had two driveways because of the large lots and said that the zoning ordinance had a section about driveways that met the standards for general access ways and driveway designs and stated that there could only be one driveway per lot. Chair Chellman said the Board would come up with a way to fix that, and it was further discussed.

B. Board Discussion of Regulatory Amendments & Other Matters

See above.

IX. ADJOURNMENT

The meeting adjourned at 9:05 p.m.

Submitted,

Joann Breault Planning Board Meeting Minutes Taker

Findings of Fact | Wetland Conditional Use Permit City of Portsmouth Planning Board

Date: <u>June 18, 2025</u>

Property Address: 185-187 Wentworth Road

Application #: <u>LU-25-2</u>

Decision: ☐ Approve ☐ Deny ☐ Approve with Conditions

Findings of Fact:

Per RSA 676:3, I: The local land use board shall issue a final written decision which either approves or disapproves an application for a local permit and make a copy of the decision available to the applicant. The decision shall include specific written findings of fact that support the decision. Failure of the board to make specific written findings of fact supporting a disapproval shall be grounds for automatic reversal and remand by the superior court upon appeal, in accordance with the time periods set forth in RSA 677:5 or RSA 677:15, unless the court determines that there are other factors warranting the disapproval. If the application is not approved, the board shall provide the applicant with written reasons for the disapproval. If the application is approved with conditions, the board shall include in the written decision a detailed description of all conditions necessary to obtain final approval.

In order to grant Wetland Conditional Use permit approval the Planning Board shall find the application satisfies criteria set forth in the Section 10.1017.50 (Criteria for Approval) of the Zoning Ordinance.

1	Zoning Ordinance Sector 10.1017.50 Criteria for Approval 1. The land is reasonably suited to the use activity or alteration.	Finding (Meets Criteria for Approval) Meets Does Not Meet	A majority of this work is proposed for previously disturbed areas that need remediation done to remove contaminants from the wetland system. The existing salt marsh is not a suitable site for excavation work but the necessity of removing the PCBs and the associated replanting of the marsh should create a better outcome for the health of the wetland resource in this location if it can be properly maintained.
2	2. There is no alternative location outside the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.	Meets Does Not Meet	This is EPA-mandated remediation work that must occur to reduce existing PCB levels on site. It cannot occur anywhere else outside of the buffer.

	Zoning Ordinance Sector 10.1017.50 Criteria for Approval	Finding (Meets Criteria for Approval)	Supporting Information
3	3. There will be no adverse impact on the wetland functional values of the site or surrounding properties.	Meets Does Not Meet	This proposal aims to remove existing toxins from the wetland and buffer system that currently exist and bring in clean topsoil and seed for the growth of the marsh. While the temporary impacts may be harmful, the outcome will create a healthier environment for all. To minimize impacts from construction, significant erosion controls are needed as part of this project.
4	4. Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals.	Meets Does Not Meet	This remediation project only proposes the removal of vegetation to the extent necessary to remove the impacted soil and cap.
5	5. The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this section.	Meets Does Not Meet	This proposal appears to be the most efficient way to clean up the PCB contaminants currently in the soils of this wetland and buffer resource. Without remediation, this site will continue to be adversely impacted from the contaminants. The applicant should ensure that any contaminated soils are properly covered if left on site at any time during the project period or afterwards.
6	6. Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.	Meets Does Not Meet	While riprap is proposed for the bank immediately above the HOTL, the area between the bank and the proposed concrete cap will be loamed and hydroseeded as well as planted with a variety of trees and shrubs. The applicant should ensure that a wetland buffer seed mix is used through the 100' wetland buffer for seeding, not just wildlife-compatible mix.
7	Other Board Findings:		



May 20, 2025 File No. 2021-075

Peter Stith
Planning Manager
Planning & Sustainability Department
Rick Chellman, Chair
Portsmouth Planning Board
1 Junkins Ave, 3rd Floor
Portsmouth, NH 03801

Subject: 185-187 Wentworth Road, Portsmouth, NH

Wetlands Conditional Use Permit Application (WCUPA) LU-25-2

Marina Restoration Project

Dear Sirs:

On behalf of the Project Applicant/our client Sea Level LLC, Aries Engineering LLC is submitting this letter in hard copy and electronic copy for the subject project. The electronic copy will be uploaded to the portsmouthnh.portal.opengov.com. This letter is intended to supplement the CUPA, and consists of the following:

- Cover Letter to the Planning & Sustainability Department and Planning Board;
- Completed Wetlands CUPA Checklist, required since March 2025 for CUPA applications brought before the Planning Board;
- An Addendum, which identifies specific items in the CUPA originally submitted January 8, and supplemented through January 30, 2025, that have necessarily been modified to respond to a) a March 14, 2025 decision letter by the Conservation Commission, containing four (4) Stipulations; and b) a verbal request made by the Portsmouth Planning Board Technical Advisory Committee (TAC) at its May 6, 2025 meeting, to confirm that the location of the existing 15 inch diameter drainage pipe which traverses the property and discharges into the wetlands area, will not be covered by the proposed concrete cap. Each of these four Stipulations are specifically addressed below in narrative text and/or the attached Addendum with revised Engineering Sheets provided as needed. The location of the pipeline has been identified on revised Engineering Sheet 5 also attached, based on field geophysical investigation conducted by Aries/GPRS on May 15, 2025.
- 1. **Stipulation No. 1**. Applicant shall receive all necessary permissions from NHDOT and the contributing abutting landowners as applicable prior to plugging or abandoning any of the existing 15" drainage pipe. Further, please provide a drainage plan and calculation analysis for the rerouting of flow entering this pipe. This shall occur prior to Planning Board approval and may need review from TAC. Any proposed ground disturbance within a jurisdictional wetland or wetland buffer due to future rerouting or removal of the existing pipe shall require a separate wetland conditional use permit from the City.
 - **Applicant Response**: This Stipulation will no longer apply because our team proposes to modify its design concept so that the existing drainage pipe will not be plugged or otherwise modified. Originally, our team was concerned that discharge flow and velocity from the pipe would negatively affect the proposed wetland grass plantings. However, a field review of the pipe inlet's relatively small surface service area and monitoring of the pipe's discharges after each significant March and April rainfall events have persuaded the Applicant that a negligible effect will result from this pipe on the area of future wetland grass plantings. March and April represent two of the five months sequentially with the highest average annual levels of precipitation, according to weather-and-climate.com.
- 2. **Stipulation No. 2**. All areas to be loamed and seeded shall receive a wetland buffer conservation seed mix or equivalent.

Applicant Response: the CUPA has been modified to reflect this, see Addendum.

3. **Stipulation No. 3.** In accordance with Section 10.1018.40 of the Zoning Ordinance, applicant shall permanently install wetland boundary markers, which may be purchased through the City of Portsmouth Planning & Sustainability Department. Markers are to be placed along the edge of the gravel parking area near the restoration area at 50-foot intervals and must be installed prior to the start of any

construction.

Applicant Response: These markers shall be installed upon completion of the proposed work, and the Addendum reflects this.

4. **Stipulation No. 4**. Applicant shall clearly delineate on the site plan and provide a detailed description of the proposed grassed swale. This should include dimensions, materials, depth, etc.

Applicant Response: Revised Engineering Sheet 5, attached to Addendum, reflects this stipulation.

Please let us know if you have any questions.

Sincerely,

Aries Engineering, LLC

Stephen J. Graham, P.E. Director of Engineering

Stephen Napohom

Cc: Jay Johonnett, PE, Aries

Tom Reis, Sea Level LLC Rick Kowalski, PG, Aries Drew Olehowski, Haley & Ward Sam Hayden, Haley & Ward

Attachments: Wetlands CUPA Checklist

CUPA Addendum

Haley and Ward Memorandum, April 29, 2025

Revised Engineering Sheet 5 & New Engineering Sheet 5A

Revised WPA Appendix J, Coastal Resource Worksheet, Part 4, Operations Monitoring and

Maintenance Plan (OMMP), Attachment CC Revised WPA Addendum S, Site Calculations

ConCom Letter, March 14, 2025

TAC Letter, May 8, 2025



City of Portsmouth, New Hampshire

Wetland Conditional Use Permit Application Checklist

This wetland conditional use permit application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Conservation Commission and Planning Board review. The checklist is required to be uploaded as part of your wetland conditional use permit application to ensure a full and complete application is submitted to the Planning and Sustainability Department and to the online portal. A pre-application conference with a member of the Planning and Sustainability Department is encouraged as additional project information may be required depending on the size and scope of the project. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all wetland conditional use permit requirements. Please refer to Article 10 of the City of Portsmouth Zoning Ordinance for full details.

Applicant Responsibilities: Applicable fees are due upon application submittal to the Planning Board (no fees are required for Conservation Commission submission). The application will be reviewed by Planning and Sustainability Department staff to determine completeness. Incomplete applications which do not provide required information for the evaluation of the proposed site development shall not be provided review by the Conservation Commission or Planning Board.

Name of Applicant: Sea Level, LLC	Date Submitted: May 21, 2025		
Application # (in City's online permitting):LU-25-2			
Site Address: 185-187 Wentworth Rd, Portsmouth, I	$_{\text{NH}}$ 201 $_{\text{Map:}}$ 201 $_{\text{Lot:}}$		

$\overline{\mathbf{A}}$	Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)
'	Complete <u>application</u> form submitted via the City's web-based permitting program	OnLine Application (OA), 1-30-25 Cupa, Pg 4-5
'	All application documents, plans, supporting documentation, this checklist and other materials uploaded to the application form in OpenGov in digital Portable Document Format (PDF) . One hard copy of all plans and materials shall be submitted to the Planning and Sustainability Department by the published deadline.	1-30-25 Cupa, Pg 5-6

Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
/	Basic property and wetland resource information. (10.1017.21)	OnLine Application (OA), 1-30-25 Cupa, Pg 4-5
V	Additional information required for projects proposing greater than 250 square feet of permanent or temporary impacts. (10.1017.22)	1-30-25 Cupa, Pg. 5
	Demonstrate impacts as they relate to the criteria for approval set forth in Section 10.1017.50 (or Section 10.1017.60 in the case of utility installation in a right-of-way). (10.1017.23)	1-30-25 Cupa, Pg 5-6
'	Balance impervious surface impacts with removal and/or wetland buffer enhancement plan. (10.1017.24)	See 1-30-25 Cupa, Pg. 6

M	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
~	Wetland buffer enhancement plan. (10.1017.25)	1-30-25 Cupa, Pg. 6
V	Living shoreline strategy provided for tidal wetland and/or tidal buffer impacts. (10.1017.26)	1-30-25 Cupa, Pg 6-7
'	Stormwater management must be in accordance with Best Management Practices including but not limited to: 1. New Hampshire Stormwater Manual, NHDES, current version. 2. Best Management Practices to Control Non-point Source Pollution: A Guide for Citizens and City Officials, NHDES, January 2004. (10.1018.10)	1-30-25 Cupa, Pg 7
'	Vegetated Buffer Strip slope of greater than or equal to 10%. (10.1018.22)	1-30-25 Cupa, Pg 7
V	Removal or cutting of vegetation, use of fertilizers, pesticides and herbicides. (10.1018.23/10.1018.24/10.1018.25)	1-30-25 Cupa, Pg 7-8
/	All new pavement within a wetland buffer shall be porous pavement. (10.1018.31)	1-30-25 Cupa, Pg 8
V	An application that proposes porous pavement in a wetland buffer shall include a pavement maintenance plan. (10.1018.32)	1-30-25 Cupa, Pg 8
	Permanent wetland boundary markers shall be shown on the plan submitted with an application for a conditional use permit and shall be installed during project construction. (10.1018.40)	5-20-25 Ltr, Pg 1
Ø	Requested Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)
'	A narrative/letter addressed to the Conservation Commission Chair (if recommended to Planning Board then an additional narrative addressed to the Planning Board Chair at that time) describing the project and any proposed wetland and/or wetland buffer impacts. Please visit the WCUP instruction page for further application instructions.	1-30-25 Cupa, Pg 1
'	If New Hampshire Department of Environmental Services (NHDES) Standard Dredge and Fill Permit is required for this work, please provide this permit application at the same time as your submission for a Wetland Conditional Use Permit.	1-30-25 Cupa, Pg 1

Applicant's Signature:	 Date:	

ADDENDUM TO CUPA

This Addendum to the CUPA submitted January 8, 2025 and revised and resubmitted January 30, 2025 identifies information which supersedes in the specified sections below, the existing text or drawings in the existing CUPA. Page numbers refer to the number of the page of the pdf document.

- Pg 2 Cover Letter, Page 2, Section 1.0, Item 2 F: Deleted, the stormwater discharge pipe will no longer be plugged.
- Pg 2 Cover Letter, Page 2, Section 3.0, 2nd bullet, AND Pg 11 Wetland Permit Application (WPA) Pg 1, Section 2.0, Project Description, Item 2c; AND Pg 118 WPA Appendix J, Coastal Resource Worksheet, Section 1, Second Paragraph. After first sentence, add:
- "Also, 260 SF of the 770 SF level upland graded areas from 11 to 14.5 ft elevation will after 6-inch soil cap installation, be covered by up to 15 inches of revetment, which is an erosion control stone of 6-inch diameter."
- Pg 62 WPA Appendix E, Engineering Project Plans, Drawings & Sheets: Sheet 5 is now replaced, and is attached to this document. It has been changed to address the 4 Stipulations of ConCom's March 14, 2025 Letter and include the location of the existing 15 in diameter drainage pipeline. New Sheet 5A is also attached, which presents a new cross section detail of a portion of Sheet 5's Section B-B'. Note that for any site plan information differing between Sheets 5 and 7, Sheet 5 information will prevail. Both Sheets 5 and 5A have been stamped by the Applicant's NH Professional Engineer.
- Pg 139 WPA Appendix J, Coastal Resource Worksheet, Part 3, change the sentence fragment "tall fescue...and birdsfoot trefoil" to "wetlands seed mix".
- Pg 140 WPA Appendix J, Coastal Resource Worksheet, Part 3, Item 1. Change "4-8" to "11" CY.
- Pg 148 WPA Appendix J, Coastal Resource Worksheet, Part 4, Operations Monitoring and Maintenance Plan, Pg 2, 2nd paragraph, Lines 4-5, substitute "south to north" for "east to west". In Line 5, after "via sheet flow to", delete rest of paragraph, and add "a revetment erosion control area consisting of 15 inches of 6-inch diameter stone which interfaces with the riprap rock/stone layer". The rationale for this change is that the underground stormwater retainage system proposed in the CUPA is no longer feasible nor required, due to a) unsuitable soils having been found in its proposed location from an April 2025 soil boring exploration by a NH-licensed Septic System Evaluator from Haley and Ward, civil engineers; b) the impact which would occur from installation of the proposed underground stormwater retainage system to the existing storm drain pipe, whose location was field determined in the soil boring program; and c) upon further evaluation by Haley and Ward to address stormwater requirements, the proposed alternative stormwater management approach (revetment) to handle runoff from the proposed 5,000 square foot concrete pad is practical and compliant with regulations.
- Pg 155 WPA Appendix J, Coastal Resource Worksheet, Part 4, Operations Monitoring and Maintenance Plan (OMMP), 2nd bullet, Stormwater Collection System, is deleted.
- Pg 164 WPA Appendix J, Coastal Resource Worksheet, Part 4, Operations Monitoring and Maintenance Plan (OMMP), in the OMMP Inspection Form, Attachment CC, second item, delete "Level Spreader (N & W End of Concrete Cap) And,"

Pg 165 WPA Appendix J, Coastal Resource Worksheet, Part 4, Operations Monitoring and Maintenance Plan (OMMP), 1st bullet, delete "Stormwater Packaged System. A revised OMMP Inspection Form, Attachment CC, is attached which supersedes the existing form.

Pg 243 WPA Appendix O, Attachment A, Major and Minor Projects, Section I.VI Floodplain Wetlands, Line 5. Delete "Sheet flow runoff from the concrete cap will be controlled by two feet of 2 inch stone installed around south and west perimeter edge with underdrain routed to packaged underground stormwater treatment system to treat and intercept runoff directed from this 2% sloped pad, see Sheets 4 and 5"; and delete Line 9 "Note that a 15 inch storm drain pipe discharging into this blind cove from the state/city roadways east of and outside the project area, will be capped with a 5 ft concrete plug, once the origin of that pipe is terminated by others and approved by regulators."

Pg 249 Appendix P, Envt WT 311.06, ConCom Comments. Comments have been received on this WPA as noted in the Cover Letter, on March 14, 2025 from ConCom, and on May 8, 2025 from TAC, both attached.

Pg 258 Appendix S, Calculations. A revised sheet is attached here which supersedes the existing page of calculations.



MEMO

To: Tom Reis, Sea Level LLC

Stephen Graham, Aries Engineering LLC

From: Drew Olehowski, PE

Re: 185-187 Wentworth Road | Wetlands Conditional Use Permit Application, Marina

Restoration Project, Stormwater Management Supplement

Date: April 9, 2025

Haley Ward, Inc. (Haley Ward) has been retained by Aries Engineering LLC (Aries Engineering) and Sea Level LLC (Sea Level) to provide engineering design and permitting services related to stormwater management for the proposed 185-187 Wentworth Road Marina Restoration project. This memorandum is to be considered a supplement to the Wetlands Conditional Use Permit Application currently undergoing review by the City of Portsmouth Planning Department.

Per the letter sent from Kate Homet, Environmental Planner, and Petr Stith, Planning Manager, Chair of Technical Advisory Committee, to Sea Level dated February 21, 2025, it was identified that the proposed development triggers Site Plan review per Section 1.2.1 of the City's Site Plan Regulations. This letter explains further that Site Plan review is required due to the proposed rerouting of an existing city-owned storm drain, and the installation of a concrete cap. The Applicant is requesting an exemption from Site Plan review by way of being classified as a "small impact" development. On February 25, 2025, a letter was sent from Aries Engineering to the individuals identified above demonstrating why the "small impact" designation is applicable to the proposed development. This memorandum serves to bolster the justification provided for item 1.2.2(c) (an increase in the lot's impervious surfaces by 500 or more feet,) as well as to comment on the necessity for the development to adhere to the City's Stormwater Management Ordinances, specifically Section 2.5.4.3(i) and Section 7.0 of the Site Plan Regulations, should the "small impact" exemption not be granted.

As described in more detail within the Wetlands Conditional Use Permit Application (WCUP,) the project generally consists of the environmental remediation of the property located at 185-187 Wentworth Road (the "Site"). Other than remediation-specific activities, changes/improvements to the Site are limited to the conversion of an approximately 5,000 square foot gravel boat storage pad to a concrete "cap." This cap will continue to be used for boat storage.



As mentioned above, this "alteration" triggers the need for Site Plan review. Applicable stormwater management standards of the Site Plan Ordinance include Section 2.5.4.3(i) and Section 7.0. Should the City uphold the applicability of the Site Plan Ordinance, a waiver for these stormwater-related sections would be requested. In general, the goal of these standards is to prevent adverse stormwater runoff impacts related to new development; these impacts may include flooding on abutting properties, degradation of the water quality of downstream waterways, or impacts to natural resources/groundwater. The nature of the proposed development makes any of these outcomes unlikely, for the following reasons:

- 1. There will be no significant increase in stormwater runoff volumes leaving the property. Runoff volumes are directly related to the "cover types" found on the Site. Under existing conditions, the subject area is entirely compacted gravel, which mimics an impervious surface. Haley Ward performed a test pit in the gravel area in April 2025 and found the soils to be generally impermeable. A copy of this test pit log is attached. Under proposed conditions, this gravel area will be converted to concrete, which is also an impermeable cover type. There is no discernable difference between compacted gravel and concrete as related to runoff volumes, especially for small sites such as this.
- 2. There will be no significant alterations in existing stormwater runoff flow paths, or resultant changes in "Summation points." Under existing conditions, the gravel pad generally slopes from south to north, generally with slopes between 0-7 percent. After sheeting over this pad for approximately 60 feet, the terrain steepens to a 1:1 slope along the bank of a wetland/Sagamore Creek. Under proposed conditions, the gravel pad will be replaced with a concrete pad which has been designed to mimic existing conditions. The concrete pad will pitch from south to north, at a flatter grade of 3%. Runoff will be maintained as sheet flow along this pad before discharging to the wetland side slopes, which we are proposing to stabilize via rip rap armoring. Overall, the drainage scheme is improved via this armoring, and a flattening of the Site's slope. The only summation point is the wetland to the north of the Site, which will remain unaltered.
- The proposed use of this Site will remain unchanged from the existing conditions.
- 4. No salt is currently used on the Site, which will continue under the proposed conditions.

Haley Ward has carried out an initial investigation into what would be needed to satisfy the City's stormwater ordinances, should they apply, and a waiver not be granted. Due to Site constraints that include wetlands, resource buffers, undisturbed areas, and capped contamination areas, stormwater treatment Best Management Practices (BMP) would be limited to surface features with a small footprint in combination with underground detention systems. This type of BMP would be unfavorable due to the following:

1. Flow performing as "sheet" flow into adjacent wetlands would be captured and channelized via a structural BMP. Channelization of flow is more likely to result in erosion of downstream areas. In this case, the downstream areas are wetlands that we do not want to negatively impact. As mentioned above, the soils in this area are generally low-permeability and discharge from the BMP via infiltration is not an option.

Wentworth Road Memo | 04.09.2025 | 5010185.2625 | Page 2



- 2. There is an existing city-owned storm drain pipe in the most efficient stormwater treatment location. The use of a BMP in this area would require the City to relocate/modify their storm drain.
- 3. Potential disturbance of underground contaminated areas through the use of the needed underground detention system.

If you have any further comments or questions, please contact our office.

Sincerely,

Haley Ward, Inc.

Drew Olehowski, P.E. Project Manager

DJO/jok Attachment

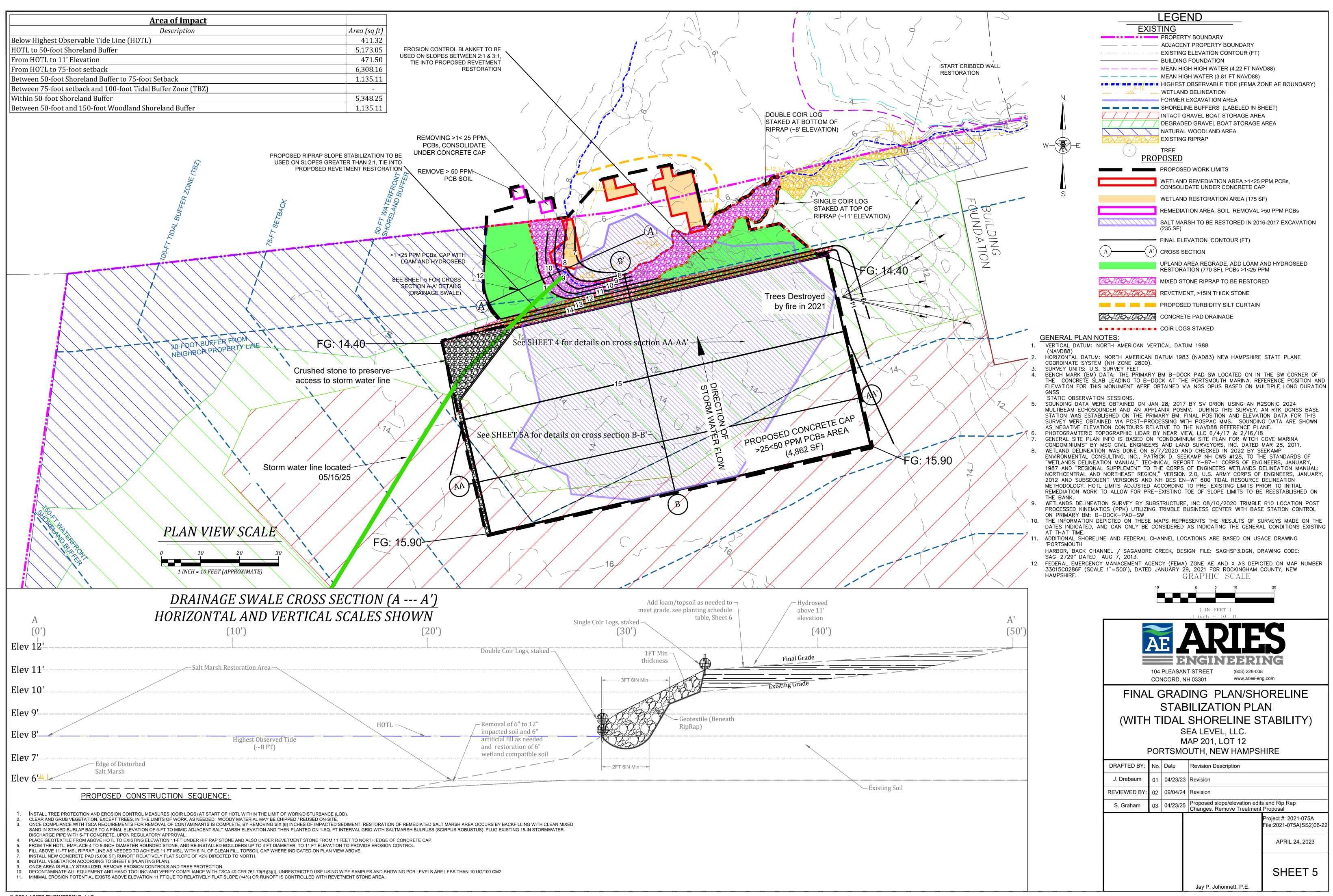
☐ Licensed Site Evaluator

☐ Certified Soil Scientist

DETAILED DESCRIPTION OF SOIL PROFILE / CLASSIFICATION INFORMATION SUBSURFACE CONDITIONS AT PROJECT SITES **Project Name: Applicant Name:** Project Location (municipality): 185 Wentworth Road 5010185.2625 **Portsmouth NH** Exploration Symbol # ▼ Test Pit □ Boring □ Probe Exploration Symbol # _ ☐ Test Pit ☐ Boring ☐ Probe " Organic horizon thickness Ground surface elev. __ " Organic horizon thickness Ground surface elev. " Depth of exploration or to refusal " Depth of exploration or to refusal Redox Features Consistency Color Redox Features Sand granular/friable 2.5Y 5/6 None Fill, many angula cobbles througho Joamy sand granular/friable Fill. many angular cobbles througho 10YR 4/3 None 10-Depth below mineral soil surface (inches) 10 Depth below mineral soil surface (inches) loamy sand granular/friable 2.5Y 5/6 None Fill, many angular cobbles througho 20. 20 None gravely coarse granular/friable 10YR 3/6 Fill, many angular cobbles throughout 30 40 Silt loam massive, firming Possible fill from historic dredging None 50 groundwater table at 65' top of Stormwater drainage pige at 46 60 60 Soil Classification Soil Classification Slope S.E. ☐ Groundw S.E. é N/A 0 - 2N/A ☐ Restrictive Laye * Details * ☐ Bedrock Profile Condition Percent Profile Condition Percent Soil Series/Phase Name: Hydrologic Soil Series/Phase Name: Hydrologic S.S S.S ☐ Hydric ☐ Hydric Soil Soil N/A * Non-hydric DD ☐ Non-hydric Soil Group Soil Group Exploration Symbol # ☐ Test Pit ☐ Boring ☐ Probe ☐ Test Pit ☐ Boring ☐ Probe Exploration Symbol # " Organic horizon thickness Ground surface elev. " Organic horizon thickness Ground surface elev. _ " Depth of exploration or to refusal " Depth of exploration or to refusal Consistency Color Redox Features 0 Depth below mineral soil surface (inches) Depth below mineral soil surface (inches) 10 10 20 20-30 30-40 40 50 50 60 60 Soil Classification Slope Limiting Factor Slope Soil Classification Details by S.E. ☐ Groundwater Groundwater ☐ Restrictive Layer * Condition Profile Percent Condition Percent Profile Soil Series/Phase Name: Hydrologic Soil Series/Phase Name: S.S. ☐ Hydric 1 □ Non-hydric Soil Group INVESTIGATOR INFORMATION AND SIGNATURE Signature 4/4/2025 Cert/Lic/Reg. # Sam Hayden PWS 321

☐ Certified Geologist

☐ Professional Engineer





104 PLEASANT STREET CONCORD, NH 03301

(603) 228-008 www.aries-eng.com

FINAL GRADING PLAN/SHORELINE STABILIZATION PLAN (WITH TIDAL SHORELINE STABILITY)

SEA LEVEL, LLC.
MAP 201, LOT 12
PORTSMOUTH, NEW HAMPSHIRE

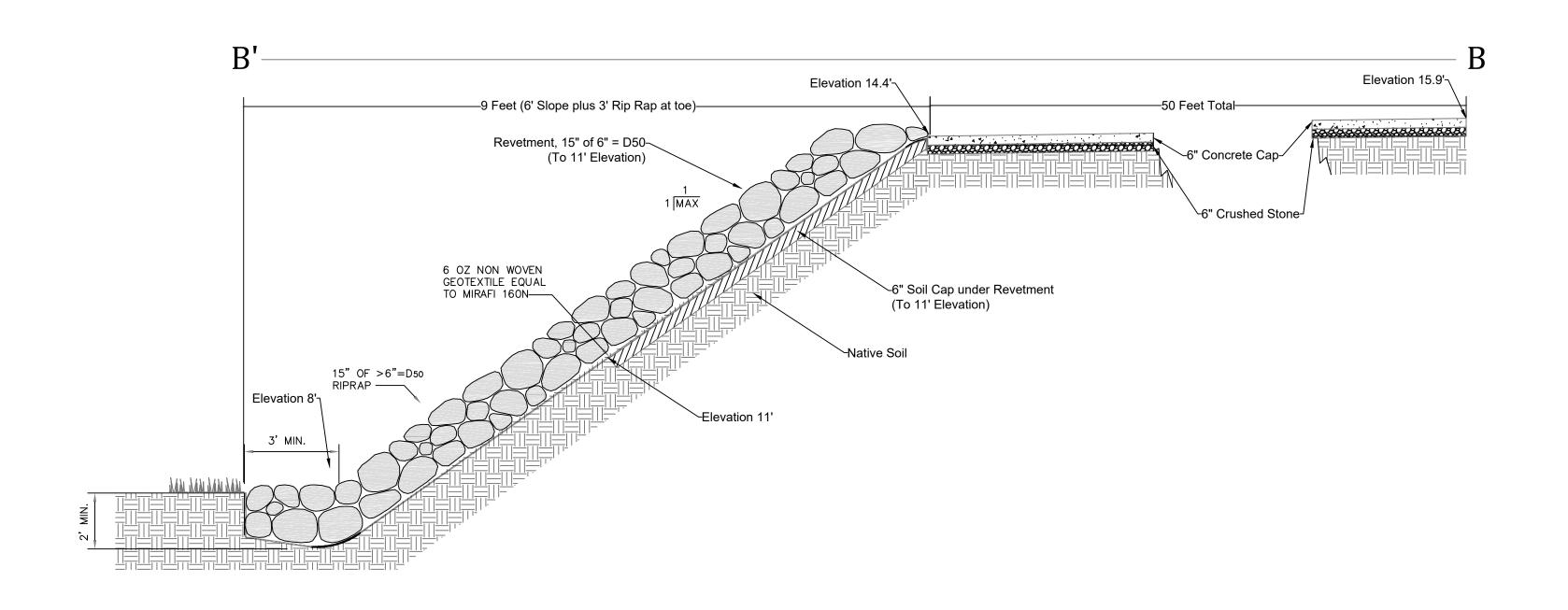
DRAFTED BY:	No.	Date	Revision Description	
J. Drebaum 01 04/23/23		04/23/23	Revision	
REVIEWED BY: 02 09/04/24		09/04/24	Revision	
S. Graham	03	04/23/25	Proposed slope/elevation edits and Rip Rap Changes. Remove Treatment Proposal	



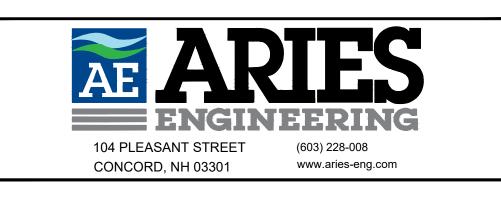
Project #: 2021-075A File:2021-075A(SS2)06-22

APRIL 24, 2023

SHEET 5



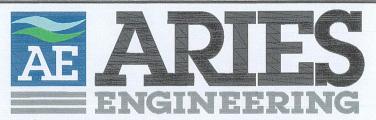
RIP RAP AND REVETMENT SLOPE STABILIZATION DETAIL NTS



FINAL GRADING PLAN/PAD GRADING DETAIL FOR RIPRAP AND REVETMENT

SEA LEVEL, LLC. MAP 201, LOT 12 PORTSMOUTH, NEW HAMPSHIRE

DRAFTED BY:	No.	Date	Revision Description	
J. Drebaum				
REVIEWED BY:				
S. Graham				
				Project #: 2021-075A File:2021-075A(SS2)06-22
				APRIL 23, 2025
				SHEET 5A
			Jay P. Johonnett, P.E.	



104 PLEASANT STREET CONCORD, NH 03301 (603) 228-008 www.aries-eng.com

FINAL GRADING PLAN/PAD GRADING DETAIL FOR RIPRAP AND REVETMENT

SEA LEVEL, LLC.
MAP 201, LOT 12
PORTSMOUTH, NEW HAMPSHIRE

DRAFTED BY:	No.	Date	Revision Description
J. Drebaum			
REVIEWED BY:			
S. Graham			

JAY JOHONNETT No. 14110

JAY P. Johonnett, P.E.

Project #: 2021-075A File:2021-075A(SS2)06-22

APRIL 23, 2025

SHEET 5A

APPENDIX J, Part 4

ATTACHMENT CC OPERATIONS MONITORING AND MAINTENANCE (OMM) PLAN

Inspection Checklist

Sea Level, LLC 185-187 Wentworth Rd, Portsmouth, NH

BMP / System	Minimum Inspection Frequency	Minimum Inspection Requirement	Maintenance Threshold	Inspection Completed? (yes/no)
Stabilized Construction Entrance	Quarterly	Inspect adjacent roadway for sediment tracking Inspect gravel stone for sediment accumulation	Sweep adjacent roadways as soon as sediment is tracked Top dress with additional stone when necessary to prevent tracking	
Concrete Cap (reinforced cement)	Quarterly	Inspect accumulated sediment level, rips, and tears; and concrete surfaces for spalling or cracks	Repair or replace damaged Sections of spreader or cap Remove and dispose of accumulated sediment once level reaches 1/3 of barrier height	
Gravel Base	Annually	Inspect gravel for ruts and depth	Replace gravel as necessary, regrade as necessary to maintain design grades, remove any accumulated gravel washed from roadway	
Litter/Trash Removal	Routinely	Inspect dumpsters, outdoor waste receptacles area, and yard areas.	Site will be free of litter/trash.	
Deicing Agents	N/A	N/A	Use agents approved by ConCom as the primary agent for roadway safety during winter.	

BMP / System	Minimum Inspection Frequency	Minimum Inspection Requirement	Maintenance Threshold	Inspection Completed? (yes/no)
Revetment	Annually	Check for sediment accumulation & clogging.	More than 12" sediment depth	
Grass Lined Drainage Swale, Final Cover Area (Low Occupancy)	Spring and Fall and after every 3" of rain or greater in a 24- hour period, as needed	huildun	Remove excess sediment and any trash/debris. Loss of vegetation > 10 % of Final Cover or Drainage Swale Loss of > 1 in of total 6 in Final Cover	
Annual Report	1 time per year	Submit Annual Report to EPA, Other agencies upon request	EPA Requirement	

Ins	pection	Notes:

Inspector:
Date of Inspection:
Date of Repairs:
Repairs Verified By:

APPENDIX S Update 4/23/25 Portsmouth Marina

185-187 Wentworth House Road, Portsmouth, NH

180-187 Weil	itworth House Road	i, Portsilloutii, Nn	•
Entity	SQFT		
Buildings	931.5		
	824.1		
	474.69		
	1136.6		
	4100		
	444.85		
	103.2		
	493.22		
	1001.19		
	182.5		
	95.16		
	4799.76		
Total	14586.77		
Entity	SQFT		
Pavement	2464.64	1189.32	
	2.0	1275.32	
First to .	COLL	12/3.32	
Entity	SQFT		
Leachfield	6684.72		
Other Permeable Surfaces (Lawn etc)	14401.8899	5036.8111	
		2015.4271	
		2405.6524	
		3441.3926	
		1204.2673	
		298.3394	
Due mounts Douglains Associate all essenting CAD File	101000 1001	290.3394	0.000407
Property Boundary Area as shown in CAD File	131660.4931		3.022497
Gravel, Intact Gravel, Degraded Gravel, Riprap, Current Rip Rap,			
Woodland, Buldings, Pavement, Permeable Areas	130603.4586		
	1057.0045		
Remaining SQFT = Water+ Saltmarsh areas	1057.0345		
Remaining SQFT = Water+ Saltmarsh areas	1057.0345		
Entity	SQFT		
Entity Salt Marsh Restoration	SQFT 236.12		
Entity Salt Marsh Restoration Future RipRap*	SQFT 236.12 432.629		
Entity Salt Marsh Restoration Future RipRap* Current RipRap	SQFT 236.12 432.629 130.455		
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment	SQFT 236.12 432.629 130.455 304.093		
Entity Salt Marsh Restoration Future RipRap* Current RipRap	SQFT 236.12 432.629 130.455	409.77	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment	SQFT 236.12 432.629 130.455 304.093	409.77 363.57	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment	SQFT 236.12 432.629 130.455 304.093		
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade	SQFT 236.12 432.629 130.455 304.093 773.34		
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete	SQFT 236.12 432.629 130.455 304.093 773.34		
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32	363.57	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete	SQFT 236.12 432.629 130.455 304.093 773.34	363.57 29126.6909	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907	363.57	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907	363.57 29126.6909	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973	363.57 29126.6909 5880.1998	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907	363.57 29126.6909	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973	363.57 29126.6909 5880.1998	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973	363.57 29126.6909 5880.1998 4210.3537	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch Area Outside of 50' Offset (Part of Concrete and Gravel)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch Area Outside of 50' Offset (Part of Concrete and Gravel) Sheet 5 Calcs	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch Area Outside of 50' Offset (Part of Concrete and Gravel) Sheet 5 Calcs Below HOTL	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816 411.32	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch Area Outside of 50' Offset (Part of Concrete and Gravel) Sheet 5 Calcs Below HOTL Hotl to 50' (Rip, Regrade, Cncrete, Drain, - Area Outside	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816 411.32 5134.179	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch Area Outside of 50' Offset (Part of Concrete and Gravel) Sheet 5 Calcs Below HOTL	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816 411.32	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch Area Outside of 50' Offset (Part of Concrete and Gravel) Sheet 5 Calcs Below HOTL Hotl to 50' (Rip, Regrade, Cncrete, Drain, - Area Outside	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816 411.32 5134.179	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch Area Outside of 50' Offset (Part of Concrete and Gravel) Sheet 5 Calcs Below HOTL Hotl to 50' (Rip, Regrade, Cncrete, Drain, - Area Outside HOTL to 11' Elev (RipRap only)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816 411.32 5134.179 432.629	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch Area Outside of 50' Offset (Part of Concrete and Gravel) Sheet 5 Calcs Below HOTL Hotl to 50' (Rip, Regrade, Cncrete, Drain, - Area Outside HOTL to 11' Elev (RipRap only) HOTL to 75' Setback (Rip, Regrade, Cncrete, Drain) 50' to 75' Setback (Part of Concrete and Drain)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816 411.32 5134.179 432.629 6269.289	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch Area Outside of 50' Offset (Part of Concrete and Gravel) Sheet 5 Calcs Below HOTL Hotl to 50' (Rip, Regrade, Cncrete, Drain, - Area Outside HOTL to 11' Elev (RipRap only) HOTL to 75' Setback (Rip, Regrade, Cncrete, Drain) 50' to 75' Setback (Part of Concrete and Drain) Within 50' Buffer (All above except 50-75 and Salt Marsh Restore	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816 411.32 5134.179 432.629 6269.289 1135.11 5309.379	363.57 29126.6909 5880.1998 4210.3537 213.739	
Entity Salt Marsh Restoration Future RipRap* Current RipRap Future Revetment Upland Area Regrade Wetland Restoration Proposed Concrete Concrete Drainage Intact Gravel (Red Hatch) Degraded Gravel (Green Hatch) Gravel Drive (Black Dots) Woodland Blue Hatch Area Outside of 50' Offset (Part of Concrete and Gravel) Sheet 5 Calcs Below HOTL Hotl to 50' (Rip, Regrade, Cncrete, Drain, - Area Outside HOTL to 11' Elev (RipRap only) HOTL to 75' Setback (Rip, Regrade, Cncrete, Drain) 50' to 75' Setback (Part of Concrete and Drain)	SQFT 236.12 432.629 130.455 304.093 773.34 175.2 5000 63.32 35006.8907 14557.6824 31973 10364.7816 411.32 5134.179 432.629 6269.289 1135.11	363.57 29126.6909 5880.1998 4210.3537 213.739	

Note: Tax map says property = 3.07 acres

by part of Proposed Revetment SF

^{*}Proposed Rip Rap number lowered by Approximately 30 SF, replaced

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CITY OF PORTSMOUTH

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

CONSERVATION COMMISSION

March 14, 2025

Sea Level LLC P.O. Box 4094 Portsmouth, New Hampshire 03801

RE: WCUP request for property located at 187 Wentworth House Road, Portsmouth, NH (LU-25-2)

Dear Property Owner:

The Conservation Commission, at its regularly scheduled meeting of Wednesday, March 12, 2025, considered your application for a Wetland Conditional Use Permit for the required remediation of PCBs by the EPA and associated impacts within a tidal wetland and previously disturbed wetland buffer. The remediation will remove 175 s.f. of sediment from existing salt marsh down to a depth of 1 ft as well as an adjacent section of 235 s.f. of fill to be removed down to a depth of 6 in. To restore these excavated areas, this project proposes to add 6 in of sand in the first removal area with the addition of saltmarsh bulrush plugs. In the upper portion of the marsh area and above the HOTL, salt tolerant grass mix is proposed as well as boulder armoring and stone riprip for bank stability. Additional proposed impacts to the buffer include the removal of 0.5 cubic yards of soil in two different buffer locations down to 1 ft in depth, with one of these areas proposed to be covered with a geotextile liner and 5,000 s.f. concrete cap. All other areas impacted by PCBs in the wetland buffer will receive 6 in of clean topsoil and vegetation. Other buffer work includes the reuse of existing gravel for boat storage activities and the plugging of an existing storm drain. Said property is shown on Assessor Map 201 Lot 12 and lies within the Waterfront Business (WB) District. As a result of said consideration, the Commission voted to recommend approval of this application to the Planning Board with the following stipulations:.

1. Applicant shall receive all necessary permissions from NHDOT and the contributing abutting landowners as applicable prior to plugging or abandoning any of the existing 15" drainage pipe. Further, please provide a drainage plan and calculation analysis for the rerouting of flow entering this pipe. This shall occur prior to Planning Board approval and may need review from TAC.

Any proposed ground disturbance within a jurisdictional wetland or wetland buffer due to future rerouting or removal of the existing pipe shall require a separate wetland conditional use permit from the City.

- 2. All areas to be loamed and seeded shall receive a wetland buffer conservation seed mix or equivalent.
- 3. In accordance with Section 10.1018.40 of the Zoning Ordinance, applicant shall permanently install wetland boundary markers, which may be purchased through the City of Portsmouth Planning & Sustainability Department. Markers are to be placed along the edge of the gravel parking area near the restoration area at 50-foot intervals and must be installed

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prior to the start of any construction.

4. Applicant shall clearly delineate on the site plan and provide a detailed description of the proposed grassed swale. This should include dimensions, materials, depth, etc.

This matter will be placed on the agenda for the Planning Board meeting scheduled for **Thursday, April 17, 2025**. One (1) hard copy of any revised plans and/or exhibits as well as an updated electronic file (in a PDF format) must be filed in the Planning & Sustainability Department and uploaded to the online permit system no later than Wednesday, March 26, 2025.

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

Very truly yours,

Samantha Collins, Chair Conservation Commission

cc:

Jay Johonnett, Project Engineer, Aries Engineering Steve Graham, Project Engineer, Aries Engineering

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5/9/25, 10:13 AM about:blank



CITY OF PORTSMOUTH

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

TECHNICAL ADVISORY COMMITTEE

May 8, 2025

Tom Reis Sea Level LLC P.O. Box 4094 Portsmouth, New Hampshire 03801

RE: Requesting exemption from Site Review approval for property located at 187 Wentworth House Rd, Portsmouth, NH (LU-25-2)

Dear Property Owner:

The Technical Advisory Committee, at its regularly scheduled meeting of Tuesday, May 6, 2025, considered your application for consideration that the proposed stormwater alterations and the installation of a concrete cap at the existing commercial site be exempted from requiring Site Review approval. Said property is shown on Assessor Map 201 Lot 12 and lies within the Waterfront Business (WB) District. As a result of said consideration, the Committee voted to **postpone** the application to the June meeting.

This matter will be placed on the agenda for the Technical Advisory Committee meeting scheduled for **Tuesday**, **June 3**, **2025**. One (1) hard copy of any revised plans and supporting reports and exhibits as well as an updated electronic file (in a PDF format) must be filed in the Planning Department by **Wednesday**, **May 21**, **2025**.

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

Very truly yours,

Reter But

Peter Britz,

Planning and Sustainability Director

CC:

Jay Johonnett, Project Engineer, Aries Engineering Steve Graham, Project Engineer, Aries Engineering

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Summary of Underground Utility Locating

Prepared For: ARIES Engineering

Prepared By:
Daniel Pacheco
dan.pacheco@gprsinc.com
Project Manager-Boston
617.455.5121
May 18, 2025



May 18, 2025

ARIES Engineering

Attn: Stephen Graham

Email: sgraham@aries-eng.com

Site: 187 Wentworth Rd. Portsmouth, NH 03801

We appreciate the opportunity to provide this report for our work completed on May 15, 2025.

PURPOSE

The purpose of the project was to search for an underground storm drainage line within the project boundaries provided by the client. The scope of work consisted of a single location measuring approximately 175 linear feet. The client marked the end pipe outlet location prior to our scanning and our markings were then placed onto the surface using spray paint and flags.

EQUIPMENT

- Underground Scanning GPR Antenna. The antenna with frequencies ranging from 250 MHz-450 MHz is mounted in a stroller frame which rolls over the surface. The surface needs to be reasonably smooth and unobstructed to obtain readable scans. Obstructions such as curbs, landscaping, and vegetation will limit the feasibility of GPR. The data is displayed on a screen and marked in the field in real time. The total depth achieved can be as much as 8' or more with this antenna but can vary widely depending on the types of materials being scanned through. Some soil types such as clay may limit maximum depths to 3' or less. As depth increases, targets must be larger in order to be detected, and non-metallic targets can be especially difficult to locate. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: Link
- Electromagnetic Pipe Locator. The EM locator can passively detect the electromagnetic fields from live AC power or from radio signals travelling along some conductive utilities. It can also be used in conjunction with a transmitter to connect directly to accessible, metallic pipes or tracer wires. A current is sent through the pipe or tracer wire at a specific frequency and the resulting EM field can then be detected by the receiver. A utility's ability to be located depends on a variety of factors including access to the utility, conductivity, grounding, interference from other fields, and many others. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: Link
- Traceable Rodder. The rodder has a copper wire encased in fiberglass. The line is pushed through accessible pipes before placing a current on the wire which is then traced from the surface. The maximum traceable depth is 10' depending on the soil conditions and the maximum distance is 300'. The line can be pushed through a pipe with direct access such as a sewer line at a cleanout or a storm drain catch basin. It may not be able to be pushed through deeper pipes within manholes and conduits will not be accessed by GPRS. The signal cannot be located through metallic pipes. For more information, please visit: Link
- **GPS.** This handheld GPS unit offers accuracy down to .39 inches; however, the accuracy will depend on the satellite environment and obstructions and should not be considered survey-grade. Features can be collected as points, lines, or areas and then exported into Google Earth or overlaid on a CAD drawing. For more information, please visit: <u>Link</u>

PROCESS

The process typically begins with using the EM pipe locator to locate pipes or utilities throughout the scan area. First, the transmitter is used to connect to and trace any visible risers, tracer wires, or accessible, conductive utilities if there is an exposed, metallic surface. The areas are then swept with the receiver to detect live power or radio frequency signals. Locations and depths are painted or flagged on the surface. Depths cannot always be provided depending on the location method and can be prone to error.

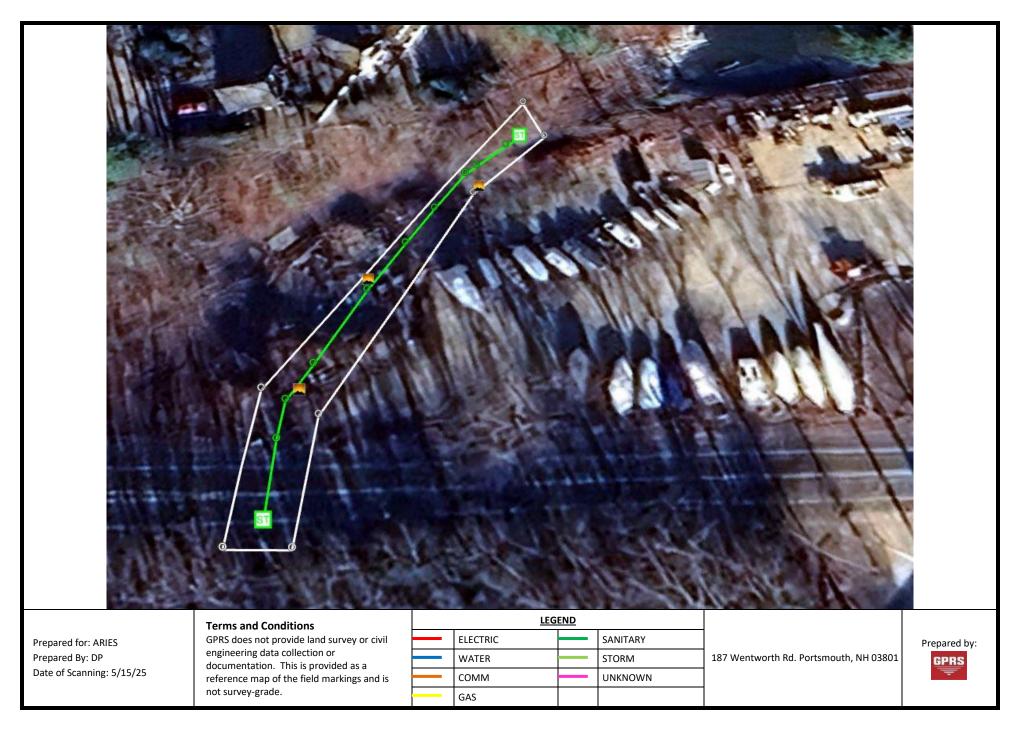
Initial GPR scans were then collected to evaluate the data and calibrate the equipment. Based on these findings, a scanning strategy is formed, typically consisting of scanning the entire area in a grid with 3–4-foot scan spacing to locate any potential utilities that were not found with the pipe locator. The GPR data is viewed in real time and anomalies in the data are located and marked on the surface along with their depths using spray paint, pin flags, etc.

LIMITATIONS

Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above-ground features, and utilization of services such as One Call/811. Depths are dependent on the dielectric of the materials being scanned so depth accuracy can vary throughout a site. Relevant scan examples were saved and will be provided in this report.

FINDINGS

The subsurface conditions at the time of the scanning allowed for maximum GPR depth penetration of 6-7 feet in most areas. The drainage pipe was able to be located using either the GPR or EM pipe locator. The traceable rodder was used from both ends of the drainage pipe. The drainpipe starts on the South side of Wentworth Road and drains into Sagamore Creek. The following pages will provide a further explanation of the findings.





Inlet from Wentworth Rd.

Using Traceable Rodder at Inlet.





Wide-Shot of Inlet.

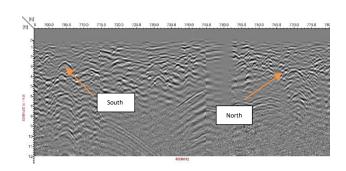
There were many obstructions, but the signal could still be traced and mapped.

GPR Data Screenshots and Photos

187 Wentworth Rd. Portsmouth, NH 03801



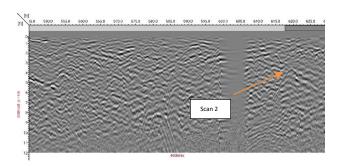




GPR Scanning North side of Wentworth Rd.

Data shot South and North of Wentworth Rd.





Scan 2.

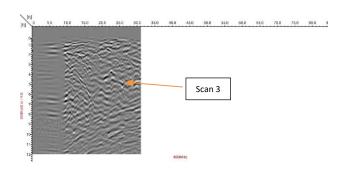
Data shot from Scan 2.

GPR Data Screenshots and Photos

187 Wentworth Rd. Portsmouth, NH 03801







Scan 3 Area.

Data shot from Scan 3 Area.





Same data set using Google Earth map from 2018. Little easier to see surrounding area compared to the 2025 map.

Outlet in Sagamore Creek.

GPR Data Screenshots and Photos

187 Wentworth Rd. Portsmouth, NH 03801



CLOSING

GPRS, Inc. has been in business since 2001, specializing in underground storage tank location, concrete scanning, utility locating, and shallow void detection for projects throughout the United States. I encourage you to visit our website (www.gprsinc.com) and contact any of the numerous references listed.

GPRS appreciates the opportunity to offer our services, and we look forward to continuing to work with you on future projects. Please feel free to contact us for additional information or with any questions you may have regarding this report.

Signed,

Daniel Pacheco

Daniel Pacheco Project Manager—Boston



Direct: 617.455.5121

dan.pacheco@gprsinc.com

www.gprsinc.com

Reviewed,

Sean Parker Area Manager—Boston



Direct: 617.372.6695

sean.parker@gprsinc.com

www.gprsinc.com

Findings of Fact | Wetland Conditional Use Permit City of Portsmouth Planning Board

Date: <u>June 18, 2025</u>

Property Address: <u>224 Cate Street</u>

Application #: LU-25-26

Decision: ☐ Approve ☐ Deny ☐ Approve with Conditions

Findings of Fact:

Per RSA 676:3, I: The local land use board shall issue a final written decision which either approves or disapproves an application for a local permit and make a copy of the decision available to the applicant. The decision shall include specific written findings of fact that support the decision. Failure of the board to make specific written findings of fact supporting a disapproval shall be grounds for automatic reversal and remand by the superior court upon appeal, in accordance with the time periods set forth in RSA 677:5 or RSA 677:15, unless the court determines that there are other factors warranting the disapproval. If the application is not approved, the board shall provide the applicant with written reasons for the disapproval. If the application is approved with conditions, the board shall include in the written decision a detailed description of all conditions necessary to obtain final approval.

In order to grant Wetland Conditional Use permit approval the Planning Board shall find the application satisfies criteria set forth in the Section 10.1017.50 (Criteria for Approval) of the Zoning Ordinance.

	Zoning Ordinance Sector 10.1017.50 Criteria for Approval	Finding (Meets Criteria for Approval)	Supporting Information
1	1. The land is reasonably suited to the use activity or alteration.	Meets Does Not Meet	The removal of vegetation from the buffer on this property significantly increased the impact of pollution, sediment and nutrient runoff into the brook, especially with the steep embankment leading to the water's edge. The plan to establish shrubs and replace the two trees within the 40-ft no-cut vegetative buffer will significantly help to re-establish that part of the buffer and prevent further runoff and erosion.
2	2. There is no alternative location outside the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.	Meets Does Not Meet	The applicant is proposing to seed all previously disturbed areas with an appropriate seed mix and plant a well-spaced section of trees within an area of the wetland buffer that relies on dense vegetation to protect the brook.

	Zoning Ordinance Sector 10.1017.50 Criteria for Approval	Finding (Meets Criteria for Approval)	Supporting Information
3	3. There will be no adverse impact on the wetland functional values of the site or surrounding properties.	Meets Does Not Meet	The disturbance of this site was in direct violation of the City of Portsmouth Zoning Ordinance and increased the risk of disturbance to Hodgson Brook, an already impaired waterbody that requires protection. With the successful establishment of the proposed plantings and conservation seed mix, the previous impacts to the wetland buffer should be mitigated.
4	4. Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals.	Meets Does Not Meet	This area had already been altered and is proposed to be revegetated to come into compliance with our wetland buffer requirements.
5	5. The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this section.	Meets Does Not Meet	This restoration of the previously disturbed area will bring this site back into compliance and hopefully help to improve the health of Hodgson Brook over time.
6	6. Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.	Meets Does Not Meet	This site is unique as it triggers a wider vegetated buffer strip. With the slope of the brook's bank, this site requires a 40' vegetated buffer strip according to Section 10.1018.22 of the Zoning Ordinance. Currently, two buildings exist within this area which prevents the entire vegetation of this strip, but the planting of the trees and shrubs greatly increases the amount of vegetation there currently.
7	Other Board Findings:		

224 CATE STREET PORTSMOUTH | WETLAND BUFFER REVEGETATION

MAINTENANCE

TO: Peter Britz, City of Portsmouth Director of Planning and Sustainability

Kate Homet, City of Portsmouth Environmental Planner

FROM: Sarah Sullivan (Large), FB Environmental Associates

SUBJECT: 224 Cate Street Wetland Buffer Revegetation Maintenance Plan

DATE: May 22, 2025

CC: Jesse Anderson (property owner); Forrest Bell & Kevin Ryan, FB Environmental Associates

Attachment: Planting and Mulching Trees and Shrubs Fact Sheet

This maintenance plan provides guidance for maintaining the planted tree saplings, shrubs, and conservation seed mix, and defines mowing limits. It is a supplemental document to the Wetland Conditional Use Permit application and was prepared at the request of the City of Portsmouth Conservation Commission.

MAINTENANCE PLAN

Watering and Establishment Guidelines

Tree and Shrub Plantings

Immediately after planting, water slowly to saturate the soil around root balls. Consistent watering is especially important in the first few weeks but should occur regularly throughout the growing season. UNH Cooperative Extension's *Landscaping* at the Water's Edge, recommends this general watering schedule:

- Week 1: water daily
- Weeks 2-3: water every other day
- Remainder of the growing season: water twice weekly, tapering to once weekly in the fall depending on rainfall

Shrubs typically establish within the first growing season, while trees can take over a year to develop adequate root systems and may require supplemental watering for up to two years. Once established, ongoing watering and maintenance should be minimal; the selected native species are adapted to local conditions.

If needed, apply a 2-3 inch thick layer of mulch (e.g., compost, wood chips, or shredded leaves free of weeds) to stabilize soil and conserve moisture around the plantings. Keep mulch away from the base of the plantings. Additional guidance is provided in the attached *Planting and Mulching Fact Sheet*.

Conservation Seed Mix

Apply seed in the spring or from mid-summer to early fall (the optimal time of year for establishment). Avoid application in summer, as heat and drought can hinder germination and growth. The seed mix is adapted to New England's climate and when applied during the appropriate season, should establish with typical rainfall and not need additional watering. However, during extended dry periods, supplemental water will be necessary.

- Seeding rate: 20-30 lbs per acre (or 1 lb per 1,450 2,180 SF)
- Post-seeding: Apply a light layer of weed-free straw mulch to promote germination and reduce erosion
- Maintenance: Additional seed may be applied in the first and second years to improve coverage

224 CATE STREET PORTSMOUTH | WETLAND BUFFER REVEGETATION MAINTENANCE PLAN

Mowing and Vegetation Removal

No mowing or cutting of herbaceous or woody vegetation shall occur between the newly planted buffer enhancement area and Hodgson Brook. The herbaceous ground cover, shrubs, and tree shall be left to grow, enhancing the existing vegetated bank of the brook enhancing soil and shoreline stabilization, stormwater management, nutrient uptake, and wildlife habitat along the riparian zone.

Fertilizer, Pesticides, and Herbicides

Fertilizer will not be used within the vegetated buffer strip or limited cut area in accordance with the City of Portsmouth's Zoning Ordinances (10.1018.24). Pesticides and herbicides will not be used within the wetland buffer (10.1018.25).



Planting and Mulching Trees and Shrubs

Cathy Neal, Extension Professor/Specialist, Nursery and Landscape Horticulture

Selecting healthy plants

Take a step back to examine the plant's overall structure. Shrubs should have several stems coming from the base of the plant. Most trees, on the other hand, should have only one upright trunk and branches should be evenly spaced along the trunk. A few species such as birch are sometimes grown as clumps and so may have multiple trunks. In general, however, you should avoid purchasing trees with double trunks, dead branches, trunk cracks or wounds, or leaves that show signs of insect damage, disease, or drought. Avoid buying weedy containers or ball-and-burlap (B&B) products so that you don't introduce more weeds to your own landscape. The presence of weeds, algae, or decomposing burlap on a B&B plant also indicates that it was harvested quite some time ago.

Choose plants with healthy root systems. Healthy root tips are generally light in color; older or diseased roots are dark colored. If the plant is container-grown, carefully remove the pot and take a look at the roots for yourself. A good root ball will stay intact. Avoid pot-bound plants, plants with a thick root mat at the bottom, or with numerous large-diameter roots circling inside the container wall (Fig. 1).

It's harder to check field-grown, B&B plants (Fig. 2), but you can. The trunk should taper outward where it enters the soil and you should see a few major roots connecting to the base of the trunk at the soil surface (see Diagram 1). If not, probe into the soil ball about three inches away from the trunk with a blunt nail or wire, trying to locate a few large roots within two inches of the surface. If you don't find any, avoid that plant because it is buried too deep. Many of the tree's roots are left behind in the nursery when a B&B plant is harvested, but the structural roots present in the soil ball provide enough stored energy for new roots to grow out quickly, under good conditions.

UNH Cooperative Extension Programs Community and Economic Development Food and Agriculture Natural Resources Youth and Family



Fig. 1. Woody plants grown in plastic containers often have dense, matted roots. This plant is "potbound" or "root-bound".



Fig. 2. Field grown trees are harvested and then wrapped in burlap and baskets for sale and handling. Trees like this leave over 80% of their roots in the nursery. The roots outside the burlap regenerated in a mulch layer while being held in a sales yard.



Fig. 3. Woody plants grown in porous fabric containers have most of their roots contained within the bag, and the small roots that grow through can be easily shaved off before removing the bag.



Fig. 4. These root systems have had the soil washed off in order to compare the roots structure of birch trees produced in a plastic pot (right) with those from a fabric container (left). Large circling roots and the bottom root mat should be removed from the plant on the right before transplanting. The plant on the left has better root structure and the swollen root nodules (circled) provide energy stores for new root growth.

A third type of planting stock is sometimes available: trees grown in porous fabric containers, sometimes called grow-bags (Fig. 3). Roots in these fabric containers are generally dense but fibrous and the larger roots should form swollen nodules at the container edge, rather than circling like in a plastic container (Fig. 4). The nodules store carbohydrates that are used for rapid root growth once transplanted. Trees grown in fabric containers are lighter weight and easier to handle than B&B plants, so they require staking and frequent watering after transplanting. Research at UNH shows that these root systems have structural advantages for trees and may enhance growth and longevity.

Transporting and storing your plants

When moving your plants, handle them by the wire basket or container and not by the trunk or branches. Move small plants in a van or car trunk but don't leave them exposed to excessive heat in a parked vehicle. Larger shrubs and trees should be laid down in a pickup bed or trailer, secured to prevent rolling, and covered with a tarp during the ride home, to avoid windburn. Load and unload them carefully; avoid dropping or bouncing plants on the ground. Many B&B trees weigh over 250 pounds, so specialized equipment is needed to move and install them.

The best thing for your plants is to transplant them as soon as possible. If you can't plant right away, water them frequently to prevent the root balls from drying out. Plants in containers will need watering daily in the summer; sometimes even more than once a day. If you find they dry out too quickly, you may want to give them a temporary home in the shade. B&B plants still need watering every 1-2 days but won't dry out as quickly as containers.

Digging the hole

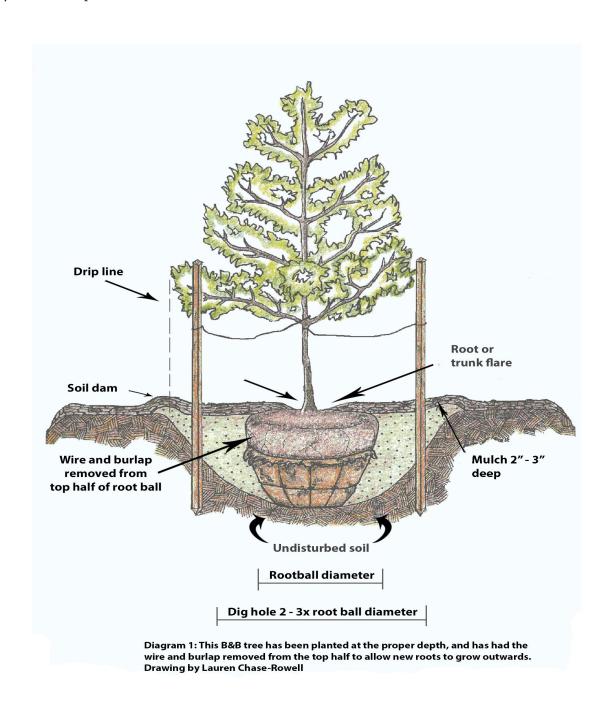
First, find the trunk flare (also called the root flare) on your tree or shrub. This is the base of the trunk which tapers out just above the first permanent roots. Small temporary roots may have grown above the root flare if the plant was too deep or covered with soil or mulch – ignore these small roots and find the topmost woody root growing radially out from the trunk; usually it will be at least ¼" in diameter. If there is excess soil or potting medium on top of the permanent roots, carefully remove it to expose the trunk flare. Any temporary small roots above the flare can be cut off with hand pruners.

Measure the height and diameter of the root ball now. The most common mistake people make when planting a new tree or shrub is making the planting hole too deep and narrow. Instead, dig a hole only as deep as the height of the root ball. Make the hole two to three times as wide as the diameter of the root ball; the sides may be sloped as shown in Diagram 1. Digging a wide hole loosens the soil and provides a good environment for new roots to begin growth.

At this point, you should have a healthy plant ready to be planted into a properly-sized hole. Carefully place it in the hole to check the depth. If you've made the hole too deep, remove the plant and place some soil back into the hole, firming it with your foot. The soil underneath needs to stay firm so the plant doesn't settle later on.

Did You Know?

The most common mistake people make when planting a new tree or shrub is making the planting hole too deep and narrow.



Planting

Now you're ready to plant. If the plant is in a pot, remove it by sliding it out sideways on the ground. If circling roots are visible on small plants, slice the root ball downwards with a sharp knife in three or four places around the outside of the root ball, an inch or two deep, cutting through all the outer, horizontally-growing roots. After placing it in the planting hole, try to position the roots in a radial pattern to encourage them to grow in an outward direction (Fig. 5), and firmly pack soil in between them.

For large trees or shrubs, simply slicing the root ball is not likely to be easy or effective. Instead, cut any visible circling roots over ¼ inch diameter with hand pruners. If there is a root mat at the bottom, cut and remove it as best possible. While root pruning may seem harsh and is stressful to the plant, research has shown that leaving circling and/or matted roots may prevent plants from establishing a normal, outward growing root system, which is essential to the long-term survival and health of the tree or shrub. It is best to select a plant that is not root bound or matted to start with.

If preparing a B&B plant, remove as much of the wire, burlap, rope, straps and other ties as possible, but avoid breaking up the soil ball while doing so. It may be easiest to strategically cut the basket in several places with wire cutters, then set the plant in the hole and stabilize it. Now continue cutting and removing all the wire, wrapping and strapping materials, and as much of the burlap as possible. At a minimum, you should expose at least the entire top half of the soil ball. It's okay to leave some wire and burlap on the bottom half, if necessary, because almost all the new roots will grow outwards from the top half of the original soil ball, not downwards from the bottom half (Diagram 1). Make sure, however, that the materials left on are natural and therefore biodegradable; avoid leaving any nylon straps or synthetic burlap (Fig. 6).





Fig. 6. This redbud tree was dying from the top down (left photo). It was planted too deeply and the straps and burlap were still wrapped around the trunk (right photo).



Fig. 5. Roots should grow outwards from the trunk in a radial pattern, like spokes on a wheel (top). (These roots have been exposed for illustration; you should not expose the roots on your plants.)

Fabric containers must be completely removed before planting. Cutting them from top to bottom with scissors or a box cutter will then allow you to peel the container away from the sides and bottom. If small roots have grown through the sides, just cut them off before removing the container (Fig. 3). Once the container is off, check for circling roots and cut any you find, but be sure to leave the nodules intact.

Place the plant in the center of the hole and check again that it is at the proper depth. Next, fill in around the root ball with the soil you saved from digging the hole, just leave out the rocks! In most cases, there is no need to amend the soil with organic matter. Research has rarely shown any benefit to using hydrogels, root stimulants, mycorrhizal inoculants, or other additives, except in the poorest of soils. However, it is a good idea to have a soil test done ahead of time so that you can add the proper amounts of lime and essential nutrients at planting.

On some sites with poor-quality urban fill, amending the soil with equal volumes of compost and sand may be beneficial. If the soil is very heavy (clay soil) or very sandy, adding ten percent (by volume) compost or peat moss to the backfill may be worthwhile. Otherwise, it is not worthwhile because the roots should rapidly grow through the backfilled soil and out into the surrounding soil. Preparing the hole properly is more important than adding any amendments.

Firm the soil by hand (or tamp lightly with your foot) as you backfill. You can add water when the hole is half full to help settle the soil, then again when you've finished planting. Making a shallow, donut-shaped dam of soil around the outer edge of the planting hole to form a shallow saucer is an option which may help if planting on a slope or site where the water tends to "run away" from the plant before sinking in (Fig. 7). You can break up the dam before winter to prevent ice from accumulating around the trunk.

Watering

Water is the most essential resource that you can give your new plant. Immediately after planting, water slowly but thoroughly to saturate the entire root ball and backfill area – this could take a couple of hours with a slow trickle from a hose. Thorough watering eliminates air pockets, rehydrates the plant and provides the water necessary for survival and growth.

Water frequently for the first few weeks, every other day if there's no rain and you have a well-drained soil. After that, water a B&B plant every five to seven days if needed, until late fall. Trees from containers

Preparing the hole properly is more important than adding any amendments.



Fig 7. This tree has been properly planted and staked. Note the donut-shaped soil dam. Now it needs water and mulch.

dry out very quickly and need more frequent irrigation than B&B trees for the first several weeks--even into the fall months, which is a good time for root growth. Apply water right over the original root ball, as well as to the backfilled area, because water from the surrounding soil will not move laterally into the porous potting medium where most of the roots are. Skip watering only if you get more than an inch of rain or can tell that the soil is moist. Don't depend on your lawn sprinklers to provide the right amount of water for your new shrubs or trees.



Fig 8. Watering aids such as this can be used to provide slow application of water over the root zone. Don't forget to refill them frequently.

How much water to apply will depend on plant size, weather, time of year, soil type and drainage. Apply enough water to wet the soil a foot deep throughout the rooting area. Under good growing conditions and well-drained soil conditions, apply about an inch of water each time (just over a half-gallon per square foot of soil surface). While a small shrub may only need half a gallon, ten gallons may be required for a 2-inch diameter tree.

Applying water slowly so that it soaks in is much better than applying it rapidly with a hose. If you do use a hose, set the nozzle to a shower or gentle spray setting. There are tree bags (Fig. 8) or rings that you can purchase and place around your tree that hold several gallons of water and allow it to ooze out slowly through small holes. For larger plantings, drip irrigation or soaker hoses may be worth the investment.

On the other hand, avoid over-watering any plant. This is likely only if you have clay soil and/or underlying poor drainage; in this case, the loosened soil around your newly-planted tree or shrub may fill up like a bath tub and drown the roots. If in doubt, do a percolation test before you plant and make sure that water drains from the hole completely within 24 hours. If it does not, make sure to choose a tree species that can tolerate a wet or poorly drained site.

You have several mulch options. Shredded bark, nuggets, or wood chips are good choices, as are pine needles.

Mulching

Mulching gives your plant a competitive advantage over grass and weeds, so that it establishes roots and resumes growth more quickly than unmulched plants. Mulch also helps keep the soil moist and moderates soil temperatures.

You have several mulch options. Shredded bark, nuggets, or wood chips are good choices, as are pine needles. The color doesn't matter to the plant. Avoid any mulch which smells sour or is hot to the touch. A thin layer of compost may be used as a mulch but may provide a good environment for weed seed germination over time. Covering the compost with a larger particle-size mulch such as wood chips will help prevent weed growth.

Staking trees

Large trees may need staking to stabilize the root balls while the roots grow out into the surrounding soil, especially if they were grown in containers or fabric bags. Use two sturdy stakes, pounded firmly into the soil just outside the root ball at the time of planting, for a tree 2-3 inches in diameter (measured 4 inches above the root flare). A smaller tree needs only a single stake – or may not need to be staked at all, unless it is a very windy site. Attach the tree loosely with a flexible material

Keep an eye out for damage caused by insects or diseases. Identify the pest and make informed decisions before applying any control measures. But remember, the key to getting your plant off to a good start is planting it properly and providing adequate water during the critical first year.

Spread the mulch in a uniform layer two to three inches deep over the entire root ball and outwards at least to the drip line of the plant (Diagram 1). Don't pile the mulch up around the trunk of your tree, known as volcano mulching. This common mulching practice can lead to disease and insect problems at the base, encourages rodents, may cause roots to grow upwards into the mulch, and can eventually result in the decline and death of your plant. Pull the mulch back a few inches from the trunk or stem instead, allowing for good air circulation around the trunk flare.

Follow-up care

Water as needed for a year or more. Shrubs will become established during the first year, but trees will take more than one year to grow anadequate root system. Don't expect to see much growth above-ground the first season. After that, most trees will grow .5 to 1 inch in diameter and several inches in height each year. But, keep watering them whenever the soil is dry. A two-inch diameter tree will take two years before it can be expected to survive on its own without supplemental watering.



Crabapple trees growing in plastic pots (right) and fabric bags (left) in a research trial at UNH.



About the Author

Dr. Cathy Neal is an Extension Professor in the Dept. of Biological Sciences at UNH, state specialist in Landscape Horticulture for Cooperative Extension and a researcher with the NH Ag. Experiment Station. Her program emphasizes using sustainable landscape practices that protect our natural resources. Your plant doesn't need added nitrogen fertilizer the first year, when it has little capacity to absorb nutrients. In fact, fertilizers containing soluble nutrients may inhibit root growth. Wait until the following spring and apply a slow-release fertilizer over the root zone, following soil test recommendations.

Don't do any major pruning at planting; only remove dead or injured branches or stems. Also identify what will become the dominant leader, or central trunk, on a deciduous tree and prune off competing leaders. Beginning the second year, prune during the dormant season as needed to establish good form and structure, especially on large-growing deciduous trees. How much pruning is needed will depend on how well the tree was trained in the nursery, but you should minimize pruning until the tree is well-established and vigorously growing in its new location.

Keep an eye out for damage caused by insects or diseases. Identify the pest and make informed decisions before applying any control measures. But remember, the key to getting your plant off to a good start is planting it properly and providing adequate water during the critical first year.

Revised and Reformatted: July 2016

For More Information

State Office Taylor Hall 59 College Rd. Durham, NH 03824

extension.unh.edu

Education Center and Information Line

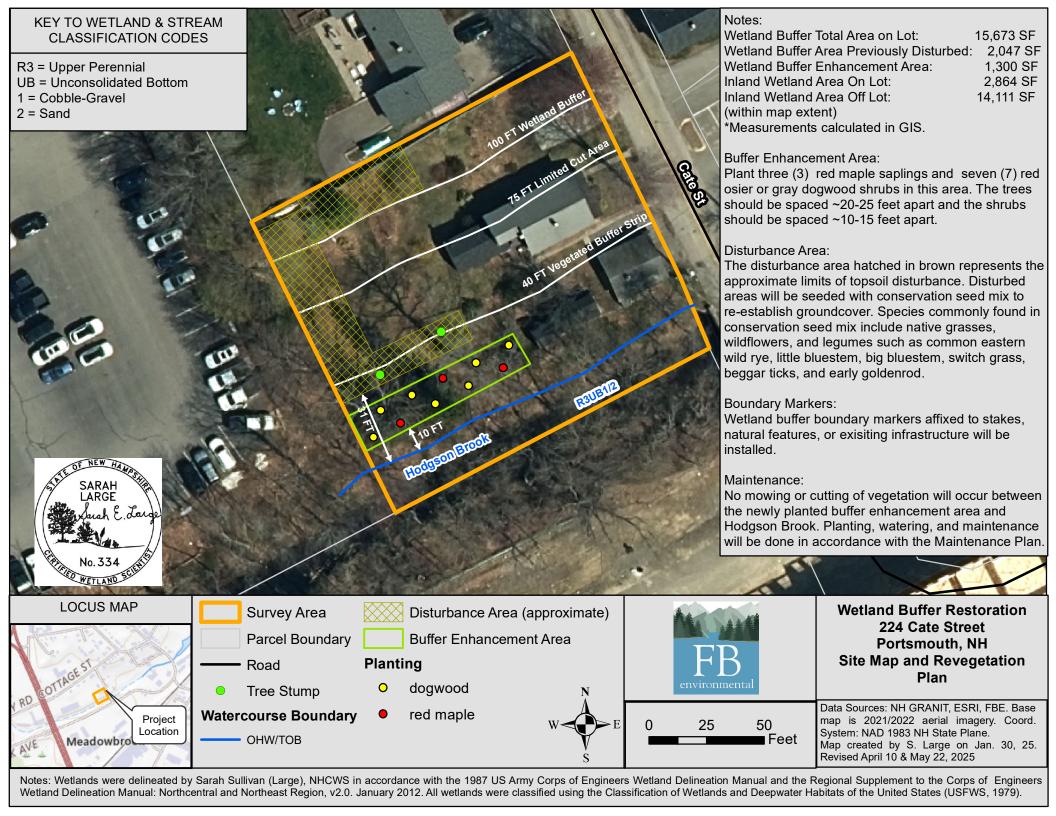
answers@unh.edu 1-877-EXT-GROW (1-877-398-4769) 9 am-2 pm M-F Search key words: "UNH Education Center" Watch our short videos on planting and mulching: http://extension.unh.edu/Videos-Home-Gardener



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Findings of Fact | Site Plan Review City of Portsmouth Planning Board

Date: <u>June 18, 2025</u>

Property Address: <u>65 Washington Street</u>

Application #: LU-25-63

Decision:

Approve Deny Approve with Conditions

Findings of Fact:

Per RSA 676:3, I: The local land use board shall issue a final written decision which either approves or disapproves an application for a local permit and make a copy of the decision available to the applicant. The decision shall include specific written findings of fact that support the decision. Failure of the board to make specific written findings of fact supporting a disapproval shall be grounds for automatic reversal and remand by the superior court upon appeal, in accordance with the time periods set forth in RSA 677:5 or RSA 677:15, unless the court determines that there are other factors warranting the disapproval. If the application is not approved, the board shall provide the applicant with written reasons for the disapproval. If the application is approved with conditions, the board shall include in the written decision a detailed description of the all conditions necessary to obtain final approval.

Site Plan Regulations Section 2.9 Evaluation Criteria - in order to grant site plan review approval, the TAC and the Planning Board shall find that the application satisfies evaluation criteria pursuant to NH State Law and listed herein. In making a finding, the TAC and the Planning Board shall consider all standards provided in Articles 3 through 11 of these regulations.

	Site Plan Review Regulations Section 2.9 Evaluation Criteria	Finding (Meets Standard/Criteria)	Supporting Information
1	Compliance with all City Ordinances and Codes and these regulations. Applicable standards:	Meets Does Not Meet	Applicable standards: Site Plan Review Regulations and Zoning Ordinance
2	Provision for the safe development, change or expansion of use of the site.	Meets Does Not Meet	The site plan set provides for safe development involving drainage improvements.
3	Adequate erosion control and stormwater management practices and other mitigative measures, if needed, to prevent adverse effects on downstream water quality and flooding of the property or that of another.	Meets Does Not Meet	The site plan set provides an erosion control plan including the installation of silt sacks on existing and proposed catch basins during construction. Stormwater management is provided as part of the drainage improvements, and a maintenance plan for the stormwater infrastructure has been included.

	Site Plan Review Regulations Section 2.9 Evaluation Criteria	Finding (Meets Standard/Criteria)	Supporting Information
4	Adequate protection for the quality of groundwater.	Meets Does Not Meet	The site is fully developed. The installation of rain gardens will provide treatment of runoff, improving the quality of the groundwater.
5	Adequate and reliable water supply sources.	Meets Does Not Meet	The Penhallow house is serviced by an existing water line on Washington Street. No water lines are proposed to be impacted.
6	Adequate and reliable sewage disposal facilities, lines, and connections.	Meets Does Not Meet	The Penhallow house is serviced by an existing sewer line that is connected to a 30" sewer main in Newton St, that is connected to a main on Washington St.
7	Absence of undesirable and preventable elements of pollution such as smoke, soot, particulates, odor, wastewater, stormwater, sedimentation or any other discharge into the environment which might prove harmful to persons, structures, or adjacent properties.	Meets Does Not Meet	A silt sack is proposed on the existing and proposed catch basins to collect sedimentation from the construction. Drainage improvements will collect stormwater on site, detain and slowly release the water. Excess water will be directed to an existing 30" drainage main, to avoid discharging stormwater onto adjacent properties.
8	Adequate provision for fire safety, prevention and control.	Meets Does Not Meet	The proposed drainage improvements will not impact the existing fire safety, prevention and control of the site.
9	Adequate protection of natural features such as, but not limited to, wetlands.	Meets Does Not Meet	Natural features such as wetlands do not exist in close proximity to the development area. Proposed drainage improvements will result in an improvement of stormwater runoff off site with the installation of rain gardens and swales.
10	Adequate protection of historical features on the site.	Meets Does Not Meet	The work will be done as per the site plan to not disturb the historical buildings on site. The purpose of the work is to improve the drainage to increase protection of the buildings across the site.
11	Adequate management of the volume and flow of traffic on the site and adequate traffic controls to protect public safety and prevent traffic congestion.	Meets Does Not Meet	The site has mainly foot traffic, with no vehicular traffic besides construction or repairs. Drainage improvements will be installed with minimal impact to the flow of traffic and traffic congestion. Vehicular traffic will remain minimal after construction.

	Site Plan Review Regulations Section 2.9 Evaluation Criteria	Finding (Meets Standard/Criteria)	Supporting Information
12	Adequate traffic controls and traffic management measures to prevent an unacceptable increase in safety hazards and traffic congestion off-site.	Meets Does Not Meet	The improvements will have minimal impact to the flow of traffic and traffic congestion.
13	Adequate insulation from external noise sources.	Meets Does Not Meet	The drainage improvements will not result in an increase in external noise sources.
14	Existing municipal solid waste disposal, police, emergency medical, and other municipal services and facilities adequate to handle any new demands on infrastructure or services created by the project.	Meets Does Not Meet	The existing solid waste disposal will not be impacted by the proposed drainage improvements.
15	Provision of usable and functional open spaces of adequate proportions, including needed recreational facilities that can reasonably be provided on the site	Meets Does Not Meet	The drainage improvements will allow for usable and functional open spaces, which are abundant on site.
16	Adequate layout and coordination of on-site accessways and sidewalks in relationship to off-site existing or planned streets, accessways, bicycle paths, and sidewalks.	Meets Does Not Meet	There are no proposed impacts to the relation of existing accessways to off-site existing streets. The entrance to Newton St from Washington St will be raised as part of the drainage improvements. Adequate measures have been taken to ensure the sidewalk along Washington St remains ADA compliant.
17	Demonstration that the land indicated on plans submitted with the application shall be of such character that it can be used for building purposes without danger to health.	Meets Does Not Meet	The site is fully developed and the work depicted on the site plan can be constructed without danger to health.
18	Adequate quantities, type or arrangement of landscaping and open space for the provision of visual, noise and air pollution buffers.	Meets Does Not Meet	The site has an abundance of open space. The rain gardens will provide stormwater management as well as a type of landscaping with the rain garden plantings.
19	Compliance with applicable City approved design standards.	Meets Does Not Meet	Application complies with Site Plan Review Regulations. Waivers for parts of the Site Plan Review Regulations have been requested.

Site Plan Review Regulations Section 2.9 Evaluation Criteria	Finding (Meets Standard/Criteria)	Supporting Information
Other Board Findings:		



Ross Engineering, LLC Civil / Structural Engineering

909 Islington Street Portsmouth, NH 03801 603-433-7560 alexross@comcast.net

Strawbery Banke Amended Site Plan Application Minor Drainage Improvements Project Narrative

May 28, 2025

This amended site plan application is for minor drainage improvements to an existing fully developed site. Tax Map 104, Lot 7 is an 8.24 Acre parcel, and is the site of the Strawbery Banke Museum.

Site plan approval was granted recently for site improvements to the Visitor Center Building and Ice Rink. The proposed work in this application is located just west of the Ice Rink. The work will take place along Washington St, Newton St, and Whidden Place. The work proposed makes minor changes to improve the drainage on site.

Site improvements include installing 2 cobble swales across Whidden Place, a vegetated swale on the southern side of Newton St, and 2 rain gardens with forebays and underdrains on either side of Whidden Place. Runoff will be directed into the rain gardens through grading and the proposed swales. 5 new catch basins are proposed to direct excess runoff through the rain gardens and into a 30" Drain main.

The entrance of Newton St that intersects with Washington St shall be raised in elevation. This will prevent runoff from Washington St from travelling onto Newton St and washing out the gravel road. Runoff on Washington St will instead be directed into the catch basins located on Washington St, that connect to the 30" Drain Main mentioned above.

A new ramp is proposed to provide ADA access to the Penhallow House. The elevations of the ramp have been incorporated in the grading and drainage design. The ramp shall be installed over an existing gravel path and does not result in a decrease of open space from the existing conditions.

TAC recommended approval of this application at it's meeting on 5-6-25 with the condition of approval that the applicant will work with DPW to ensure proper grading of the proposed rain gardens prior to submission to the Planning Board. The rain garden has been relocated and regraded as per discussions with DPW.

Sincer	ely,

Alex Ross, P.E.

Ross Engineering, LLC

909 Islington Street Portsmouth, NH 03801 April 21, 2025 603-433-7560 alexross@comcast.net

Planning Department City of Portsmouth Portsmouth, NH 03801

RE: Amended Site Plan Application

Minor Drainage Improvements

Tax Map 104, Lot 7 Portsmouth, NH 03801

Owner: Rodney Rowland

Director of Facilities and Environmental Sustainability

Strawbery Banke Museum

Please be advised that Alex Ross of Ross Engineering is authorized to be my agent for the above application process. Should you have any questions, please contact me.

Sincerely,

Rodney Rowland

Director of Facilities and Environmental Sustainability

Strawbery Banke Museum



City of Portsmouth, New Hampshire Site Plan Application Checklist

This site plan application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Planning Board review. The checklist is required to be completed and uploaded to the Site Plan application in the City's online permitting system. A preapplication conference with a member of the planning department is strongly encouraged as additional project information may be required depending on the size and scope. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all site plan review requirements. Please refer to the Site Plan review regulations for full details.

Applicant Responsibilities (Section 2.5.2): Applicable fees are due upon application submittal along with required attachments. The application shall be complete as submitted and provide adequate information for evaluation of the proposed site development. Waiver requests must be submitted in writing with appropriate justification.

Name of Applicant: Alex Ross	_ Date Submitted: 4/21/2025	
Application # (in City's online permitting): TBD		
Site Address: Washington St (Penhallow House)	Map: <u>10</u>	4_Lot: 7

Application Requirements		
Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)	Waiver Requested
Complete <u>application</u> form submitted via the City's web-based permitting program (2.5.2.1 (2.5.2.3A)	Online Application in Viewpoint	N/A
All application documents, plans, supporting documentation and other materials uploaded to the application form in viewpoint in digital Portable Document Format (PDF). One hard copy of all plans and materials shall be submitted to the Planning Department by the published deadline. (2.5.2.8)	Online Application in Viewpoint	N/A

	Site Plan Review Application Required Information			
M	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested	
Ø	Statement that lists and describes "green" building components and systems. (2.5.3.1B)		Х	
Ø	Existing and proposed gross floor area and dimensions of all buildings and statement of uses and floor area for each floor. (2.5.3.1C)	N/A - No Work on Structures Proposed	N/A	
Ø	Tax map and lot number, and current zoning of all parcels under Site Plan Review. (2.5.3.1D)	Drawing 1 - Existing Conditions Notes 1 & 3	N/A	

	Site Plan Review Application Required Inf	ormation	
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
	Owner's name, address, telephone number, and signature. Name, address, and telephone number of applicant if different from owner. (2.5.3.1E)	Strawbery Banke 17 Hancock St Portsmouth, NH 03801 603-422-0600	N/A
	Names and addresses (including Tax Map and Lot number and zoning districts) of all direct abutting property owners (including properties located across abutting streets) and holders of existing conservation, preservation or agricultural preservation restrictions affecting the subject property. (2.5.3.1F)	Abutter List to be generated by City	N/A
Ø	Names, addresses and telephone numbers of all professionals involved in the site plan design. (2.5.3.1G)	Cover Sheet	N/A
Ø	List of reference plans. (2.5.3.1H)	Drawing 1 - Existing Conditions	N/A
	List of names and contact information of all public or private utilities servicing the site. (2.5.3.11)	Drawing 3 - Site Plan	N/A

	Site Plan Specifications		
Ø	Required Items for Submittal	Itana Lasatian	
	Required Items for Submittal	Item Location	Waiver
		(e.g. Page/line or	Requested
		Plan Sheet/Note #)	
	Full size plans shall not be larger than 22 inches by 34 inches with	Required on all plan	N/A
	match lines as required, unless approved by the Planning Director	sheets	
	(2.5.4.1A)		
	Scale: Not less than 1 inch = 60 feet and a graphic bar scale shall be	Required on all plan	N/A
	included on all plans.	sheets	
	(2.5.4.1B)		
	GIS data should be referenced to the coordinate system New	CIS Data to be provided	N/A
	Hampshire State Plane, NAD83 (1996), with units in feet.	GIS Data to be provided if required by City	
	(2.5.4.1C)	in required by only	
	Plans shall be drawn to scale and stamped by a NH licensed civil	Required on all plan	N/A
	engineer.	sheets	14,71
	(2.5.4.1D)	0.720.5	
Ø	Wetlands shall be delineated by a NH certified wetlands scientist		N/A
	and so stamped. (2.5.4.1E)	N/A - No Wetlands	13/7
	Title (name of development project), north point, scale, legend.		N/A
	(2.5.4.2A)	Drawing 1 - Existing Conditions	,
	Date plans first submitted, date and explanation of revisions.	All drawings	N/A
	(2.5.4.2B)	All drawings	
Ø	Individual plan sheet title that clearly describes the information that	Required on all plan	N/A
	is displayed.	sheets	,
	(2.5.4.2C)	333.3	
	Source and date of data displayed on the plan.		N/A
	(2.5.4.2D)	Drawing 1 - Existing Conditions	,

	Site Plan Specifications – Required Exhibits and Data					
	Required Items for Submittal Item Location (e.g. Page/line Plan Sheet/Not	or Requested				
	 1. Existing Conditions: (2.5.4.3A) Surveyed plan of site showing existing natural and built features; Existing building footprints and gross floor area; Existing parking areas and number of parking spaces provided; Zoning district boundaries; Existing, required, and proposed dimensional zoning requirements including building and open space coverage, yards and/or setbacks, and dwelling units per acre; Existing impervious and disturbed areas; Limits and type of existing vegetation; Wetland delineation, wetland function and value assessment (including vernal pools); SFHA, 100-year flood elevation line and BFE data, as required. 					
	 2. Buildings and Structures: (2.5.4.3B) Plan view: Use, size, dimensions, footings, overhangs, 1st fl. elevation; Elevations: Height, massing, placement, materials, lighting, façade treatments; Total Floor Area; Number of Usable Floors; Gross floor area by floor and use. 	ns				
卤	 3. Access and Circulation: (2.5.4.3C) Location/width of access ways within site; Location of curbing, right of ways, edge of pavement and sidewalks; Location, type, size and design of traffic signing (pavement markings); Names/layout of existing abutting streets; Driveway curb cuts for abutting prop. and public roads; If subdivision; Names of all roads, right of way lines and easements noted; AASHTO truck turning templates, description of minimum vehicle allowed being a WB-50 (unless otherwise approved by TAC). 	Plan" & valk				
	 4. Parking and Loading: (2.5.4.3D) Location of off street parking/loading areas, landscaped areas/buffers; Parking Calculations (# required and the # provided). 	Х				
	 Size, type and location of water mains, shut-offs, hydrants & Engineering data; Location of wells and monitoring wells (include protective radii). Drawing 1 - Existing Conditions & Drawing Conditions &					
	 Sewer Infrastructure: (2.5.4.3F) Size, type and location of sanitary sewage facilities & Conditions & Draw Engineering data, including any onsite temporary facilities during construction period. 	ing wing 3				

	7. Utilities: (2.5.4.3G)	Drawing 1 - Existing	
	The size, type and location of all above & below ground utilities;	Conditions & Drawing 3	
	 Size type and location of generator pads, transformers and other fixtures. 	- Site Plan	
Ø	8. Solid Waste Facilities: (2.5.4.3H)		
	• • •		X
	 The size, type and location of solid waste facilities. 		
	9. Storm water Management: (2.5.4.3I)	Drawing 5 - Drainage Plan Drawing 7 - CobbleSwale Details	
	The location, elevation and layout of all storm-water drainage. The location of the location and layout of all storm-water drainage.	Drawing 8 - Details	
	 The location of onsite snow storage areas and/or proposed off- site snow removal provisions. 		
	 Location and containment measures for any salt storage facilities 		
	 Location of proposed temporary and permanent material storage 		
	locations and distance from wetlands, water bodies, and		
	stormwater structures.		
	10. Outdoor Lighting: (2.5.4.3J)		V
	 Type and placement of all lighting (exterior of building, parking lot and any other areas of the site) and photometric plan. 		X
\square	11. Indicate where dark sky friendly lighting measures have		V
	been implemented. (10.1)		X
	12. Landscaping: (2.5.4.3K)	Drawing 5 - Drainage	
	 Identify all undisturbed area, existing vegetation and that 	Plan	
	which is to be retained;Location of any irrigation system and water source.		
□ I			
	 13. Contours and Elevation: (2.5.4.3L) Existing/Proposed contours (2 foot minimum) and finished 	Drawing 1 - Existing	
	grade elevations.	Conditions & Drawing 3 - Site Plan	
図	14. Open Space: (2.5.4.3M)		
	Type, extent and location of all existing/proposed open space.		Χ
\square	15. All easements, deed restrictions and non-public rights of	N/A - No easements	
	ways. (2.5.4.3N)	proposed	
\square	16. Character/Civic District (All following information shall be	N/A - Not in a Character	
	included): (2.5.4.3P)	or Civic District	
	Applicable Building Height (10.5A21.20 & 10.5A43.30);		
	 Applicable Special Requirements (10.5A21.30); Proposed building form/type (10.5A43); 		
	 Proposed building form/type (10.5A43); Proposed community space (10.5A46). 		
	- Troposed community space (10.5A40).		
	17. Special Flood Hazard Areas (2.5.4.3Q)	Drawing 1 - Existing	
	The proposed development is consistent with the need to	Conditions: Note 4	
	minimize flood damage;		
	 All public utilities and facilities are located and construction to minimize or eliminate flood damage; 		
	Adequate drainage is provided so as to reduce exposure to		
	flood hazards.		

	Other Required Information				
Ø	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested		
Ø	Traffic Impact Study or Trip Generation Report, as required. (3.2.1-2)		X		
Ø	Indicate where Low Impact Development Design practices have been incorporated. (7.1)	Drawing 5 - Drainage Plan Rain Gardens, Swales			
	Indicate whether the proposed development is located in a wellhead protection or aquifer protection area. Such determination shall be approved by the Director of the Dept. of Public Works. (7.3.1)	Not in Wellhead Protection or Aquifer Protection Area			
☑	Stormwater Management and Erosion Control Plan. (7.4)	Drawing 5 - Drainage Plan Drawing 9 - Erosion Control Plan			
Ø	Inspection and Maintenance Plan (7.6.5)	Stormwater Operations & Maintenance Manual			

	Final Site Plan Approval Required Information				
A	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested		
	All local approvals, permits, easements and licenses required, including but not limited to: • Waivers; • Driveway permits; • Special exceptions; • Variances granted; • Easements; • Licenses. (2.5.3.2A)				
	Exhibits, data, reports or studies that may have been required as part of the approval process, including but not limited to: Calculations relating to stormwater runoff; Information on composition and quantity of water demand and wastewater generated; Information on air, water or land pollutants to be discharged, including standards, quantity, treatment and/or controls; Estimates of traffic generation and counts pre- and post-construction; Estimates of noise generation; A Stormwater Management and Erosion Control Plan; Endangered species and archaeological / historical studies; Wetland and water body (coastal and inland) delineations; Environmental impact studies. (2.5.3.2B) A document from each of the required private utility service providers indicating approval of the proposed site plan and	N/A - No proposed utilities			
	indicating an ability to provide all required private utilities to the site. (2.5.3.2D)				

	Final Site Plan Approval Required Information					
Ø	Required Items for Submittal Item Location (e.g. Page/line or Plan Sheet/Note #)					
	A list of any required state and federal permit applications required for the project and the status of same. (2.5.3.2E)	No State or Federal Permits Required				
Ø	A note shall be provided on the Site Plan stating: "All conditions on this Plan shall remain in effect in perpetuity pursuant to the requirements of the Site Plan Review Regulations." (2.5.4.2E)	Drawing 3 - Site Plan: Note 3	N/A			
	For site plans that involve land designated as "Special Flood Hazard Areas" (SFHA) by the National Flood Insurance Program (NFIP) confirmation that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334. (2.5.4.2F)					
Ø	Plan sheets submitted for recording shall include the following notes: a. "This Site Plan shall be recorded in the Rockingham County Registry of Deeds." b. "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." (2.13.3)		N/A			

Applicant's Signature:

D-4--

Ross Engineering Civil/Structural Engineering & Surveying

909 Islington Street Portsmouth, NH 03801 603-433-7560 alexross@comcast.net

May 28, 2025

City of Portsmouth Planning Department 1 Jenkins Avenue Portsmouth, NH 03801

Waiver Request Letter

Re: Amended Site Plan Application Minor Drainage Improvements Tax Map 104, Lot 7 Portsmouth, NH

Planning Board Members, we are requesting waivers to the site plan review regulations listed below, due to the fact that this is a fully developed existing site with site plan approval. The work proposed in this application is for drainage improvements. Waivers have been requested for regulations for which the work proposed will not impact.

1) 2.5.3.1B: Green Building Components

There is no proposed work to any structures in this application.

2) 2.5.4.3.D: Parking and Loading

Parking will not be impacted by the drainage improvements.

3) 2.5.4.3.H: Solid Waste Facilities

Solid Waste Facilities will not be impacted by the drainage improvements.

4) 2.5.4.3.J: Outdoor Lighting

Outdoor Lighting will not be impacted by the drainage improvements.

5) 2.5.4.3.M: Open Space

Drainage improvements include rain gardens, swales, and grading. There is no decrease in open space as a result of the drainage improvements.

6) 3.2.1-2: Traffic Impact Study

Drainage improvements will not impact the traffic generated by the site.

7) 7.4: Stormwater Calculations and Independent Review

A drainage study is not necessary for these minor improvements.

8) 10.1: Dark Sky Friendly Measures

Outdoor Lighting will not be impacted by the drainage improvements.

Ross Engineering Civil/Structural Engineering & Surveying

909 Islington Street Portsmouth, NH 03801

603-433-7560 alexross@comcast.net

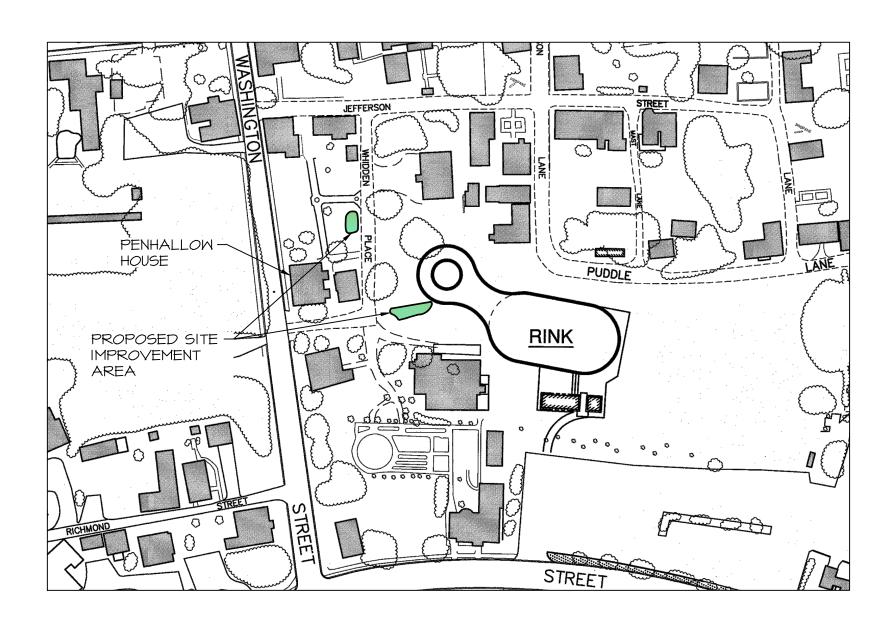
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Sincerely,

Alex Ross, P.E., LLS

Amended Site Plan Application Minor Drainage Improvements

Strawbery Banke
Portsmouth, NH 03801



PREPARED FOR:

Strawbery Banke

PREPARED BY:

ROSS ENGINEERING, LLC

Civil/Structural Engineering & Surveying
909 Islington St.
Portsmouth, NH 03801
(603) 433-7560

Placework

96 Penhallow Street Portsmouth, NH 03801 (603) 319-8199

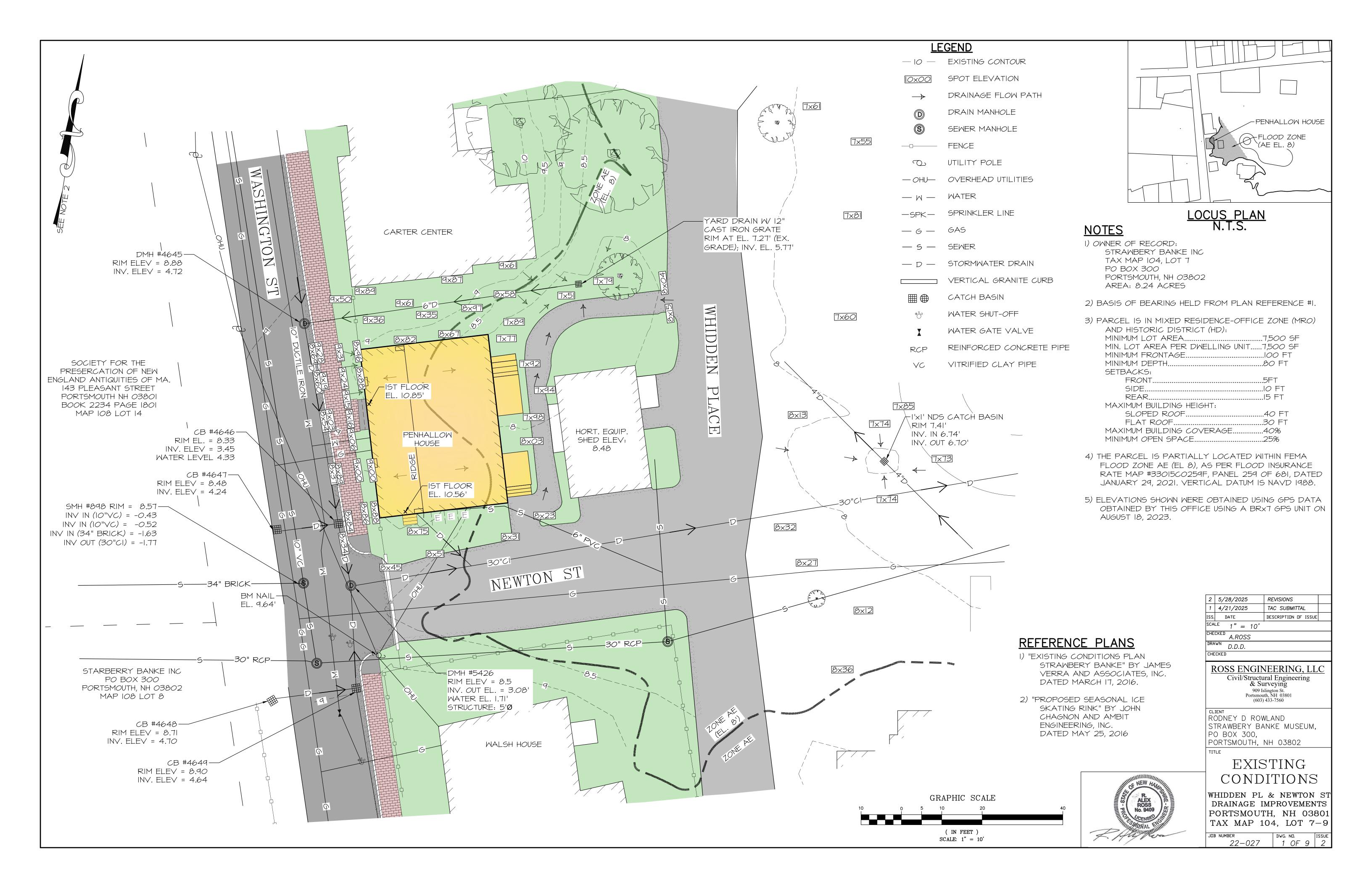
Horsley Witten Group

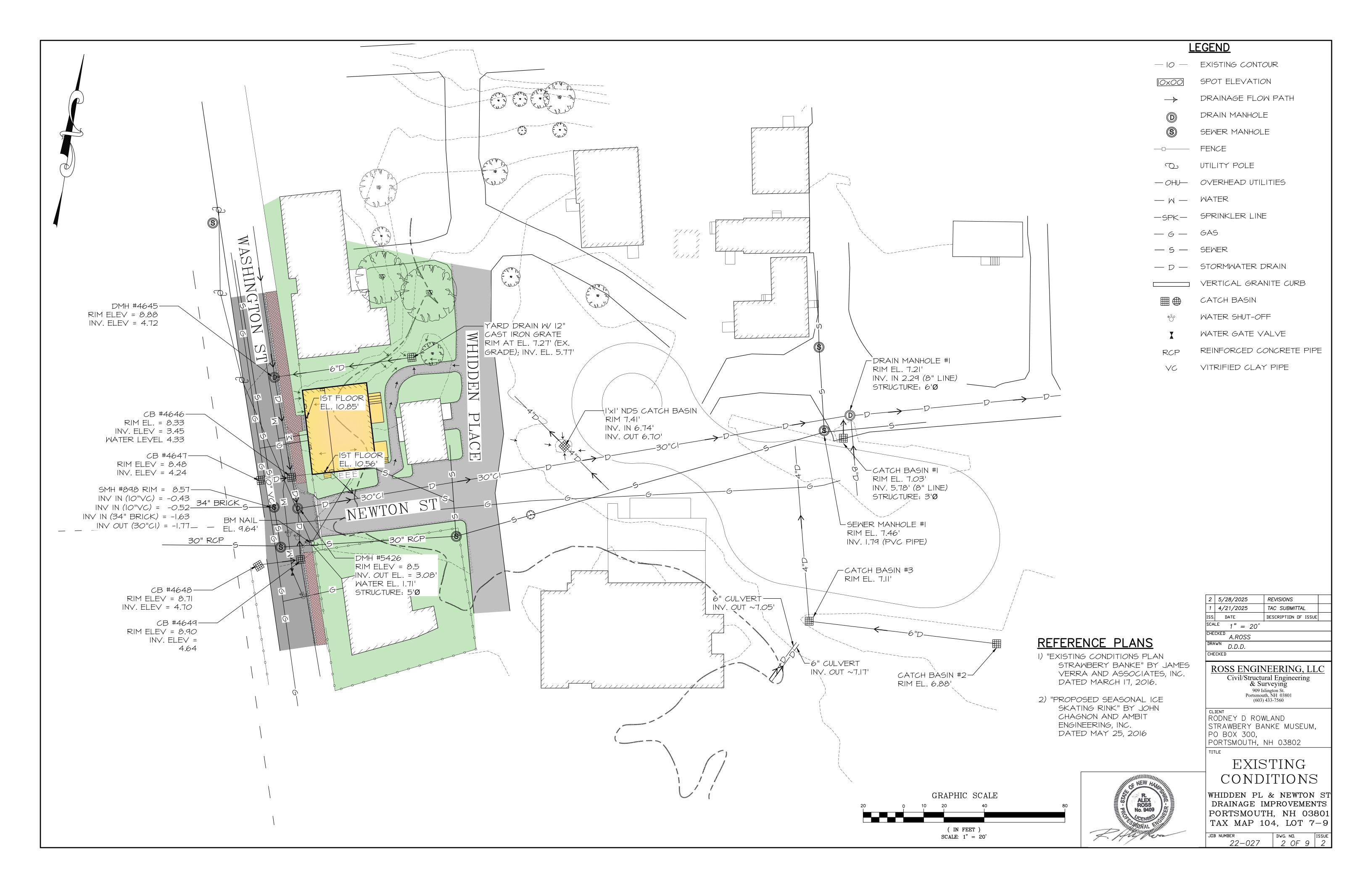
90 Route 6A, Unit 1 Sandwich, MA 02563 (508) 833-6600

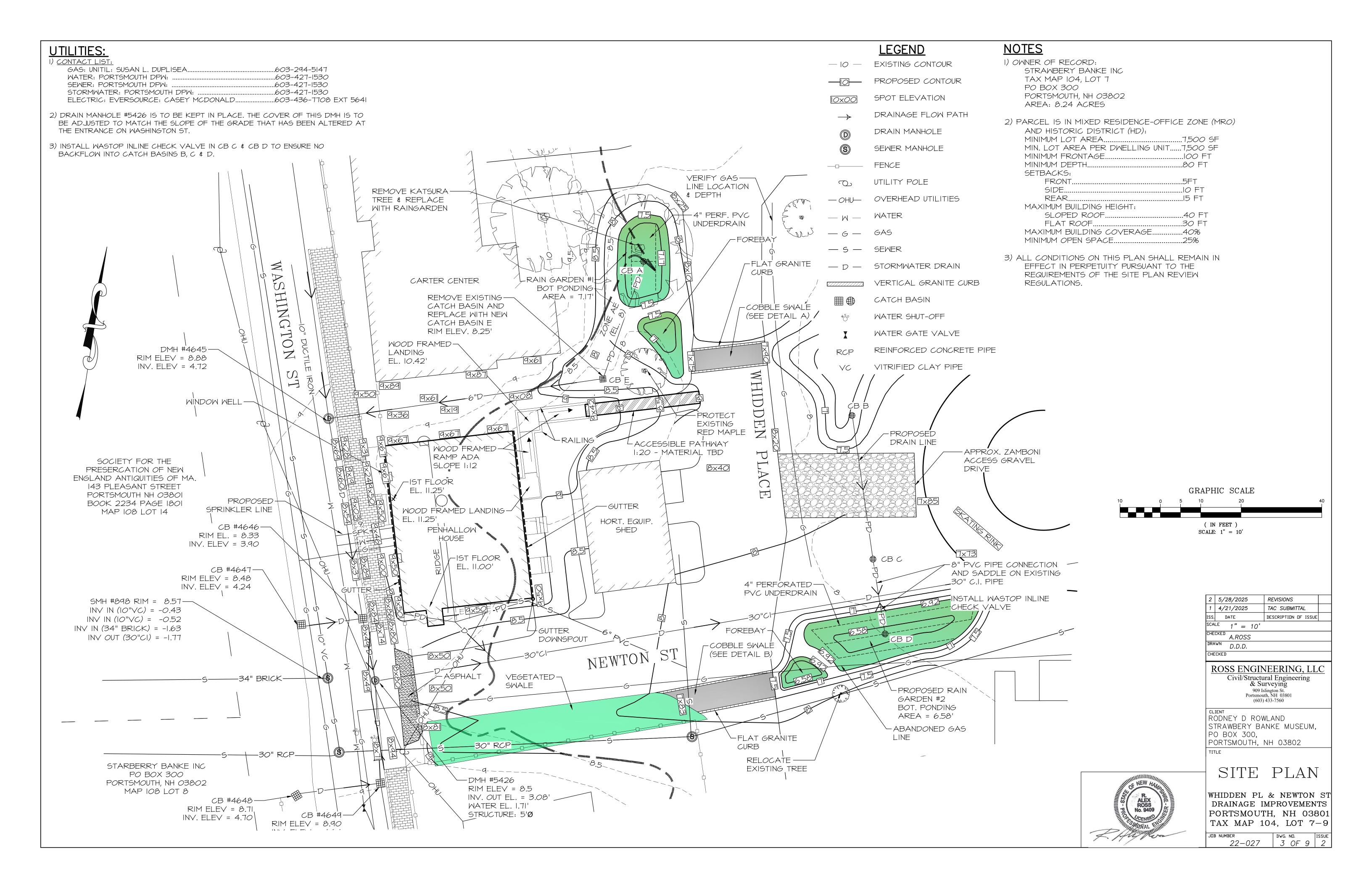
LIST OF PROJECT PLANS:

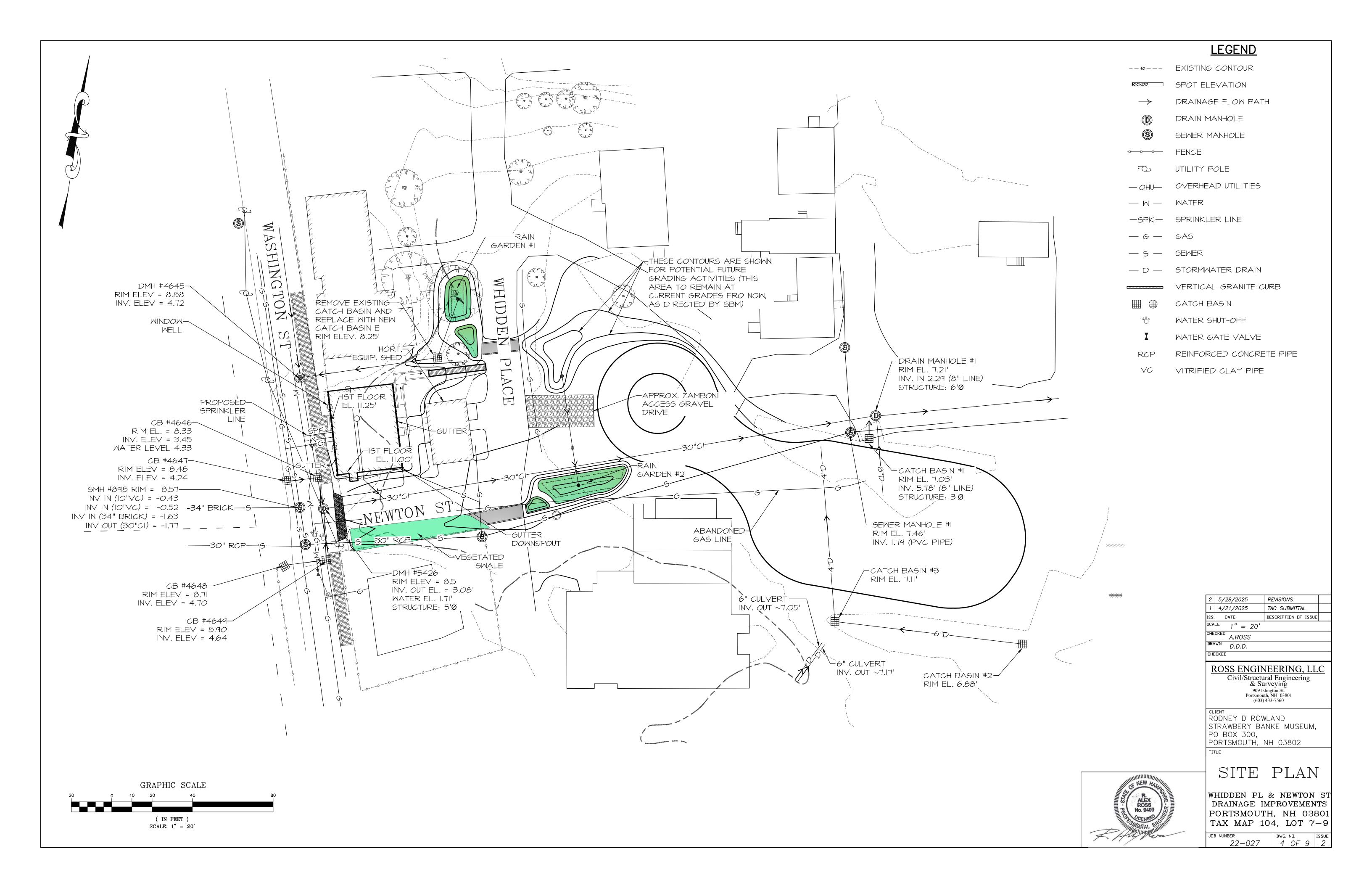
SITE PLAN SET

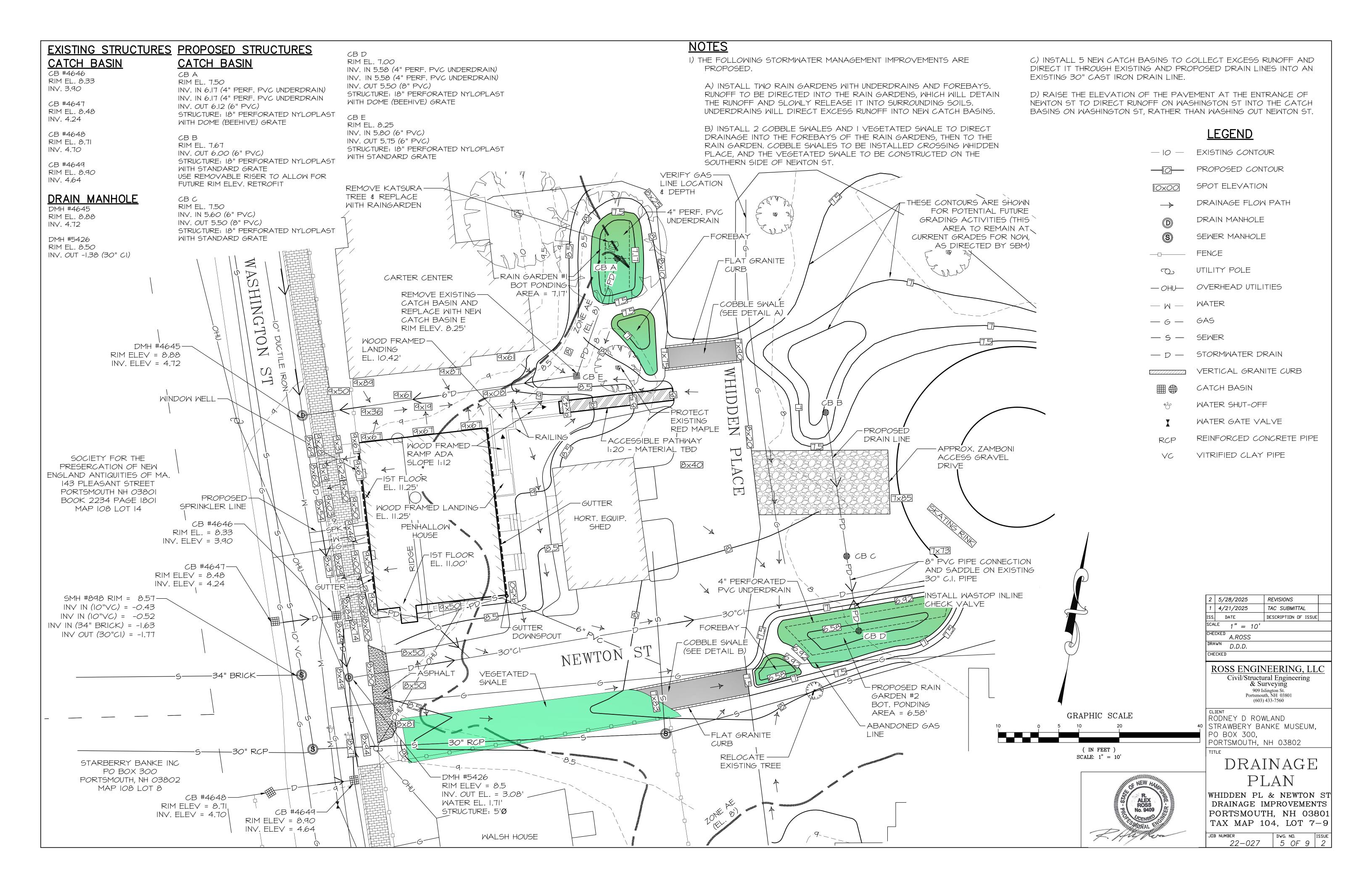
- 1 Existing Conditions Plan 1'' = 10'
- 2 Existing Conditions Plan 1" = 20'
- 3 Site Plan 1'' = 10'
- 4 Site Plan 1'' = 20'
- 5 Drainage Plan
- 6 Front Entrance Details
- 7 Cobble Swale Details
- 8 Details
- 9 Erosion Control Plan

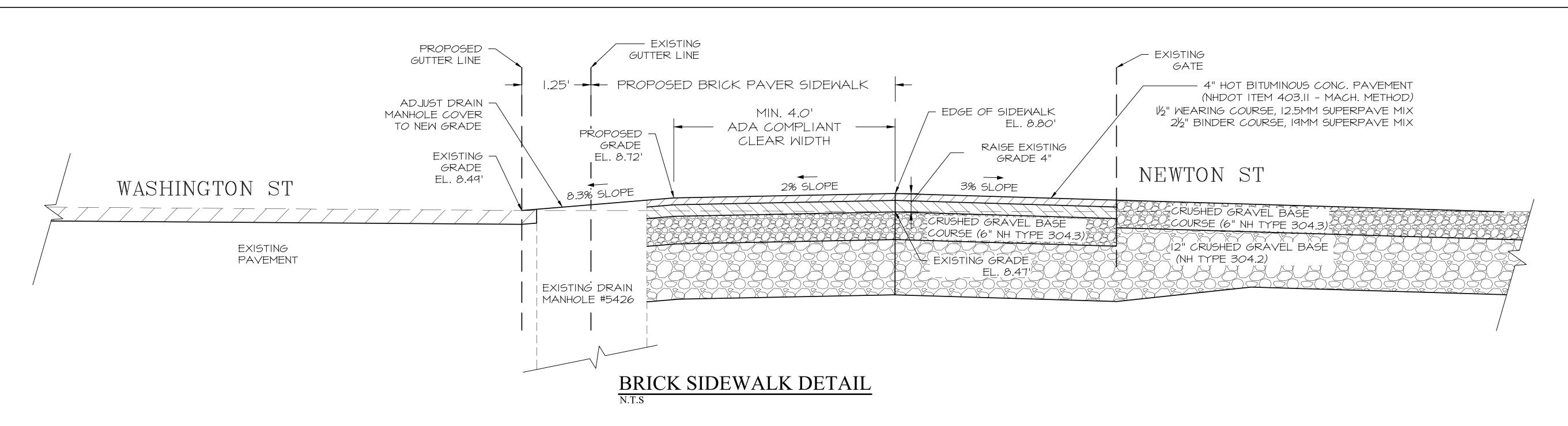


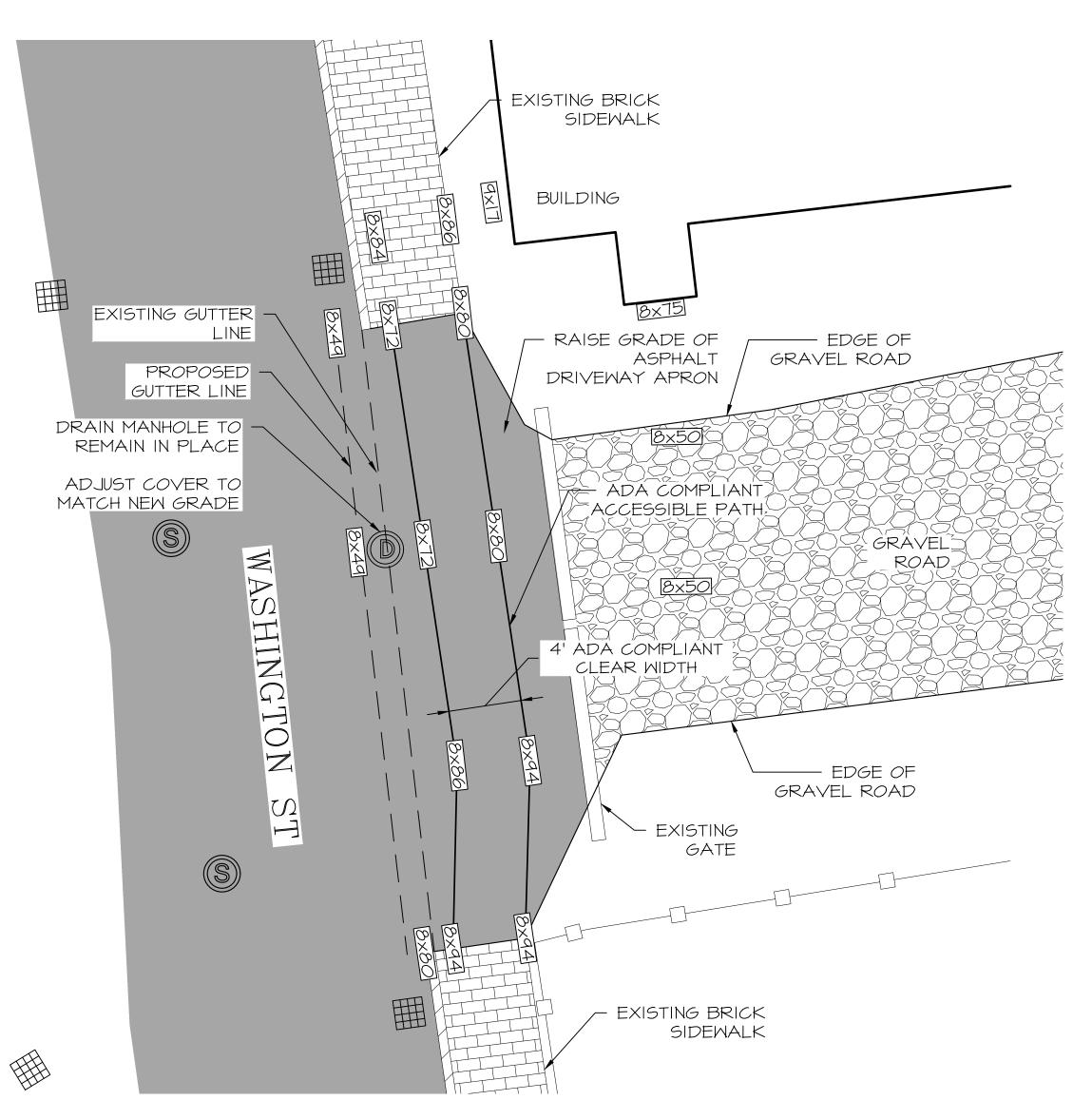












<u>NOTES</u>

I) OWNER OF RECORD: STRAWBERY BANKE INC TAX MAP 104, LOT 7 PO BOX 300 PORTSMOUTH, NH 03802 AREA: 8.24 ACRES

2) PARCEL IS IN MIXED RESIDENCE-OFFICE ZONE (MRO) AND HISTORIC DISTRICT (HD): MINIMUM LOT AREA .. .7,500 SF MIN. LOT AREA PER DWELLING UNIT 7.500 SF MINIMUM FRONTAGE. ..100 FT MINIMUM DEPTH. ..80 FT SETBACKS: FRONT .5FT ..lo FT SIDE. REAR. ...15 FT MAXIMUM BUILDING HEIGHT: SLOPED ROOF... ..40 FT ..30 FT FLAT ROOF .. MAXIMUM BUILDING COVERAGE. .40% ..25% MINIMUM OPEN SPACE.

UTILITIES:

CONTACT LIST: ..603-294-5147 GAS: UNITIL: SUSAN L. DUPLISEA. ..603-427-1530 WATER: PORTSMOUTH DPW: ..603-427-1530 SEWER: PORTSMOUTH DPW: STORMWATER: PORTSMOUTH DPW: ...603-427-1530 ELECTRIC: EVERSOURCE: CASEY MCDONALD...603-436-7708 EXT 5641

2	5/28/2025	REVISIONS	
1	4/21/2025	TAC SUBMITTAL	
ISS.	DATE	DESCRIPTION OF ISSUE	
SCA	LE 1" = 10'		

CHECKED A.ROSS DRAWN D.D.D.

CHECKED

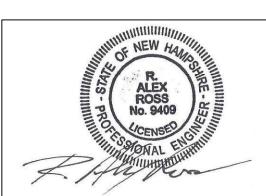
ROSS ENGINEERING, LLC Civil/Structural Engineering & Surveying
909 Islington St.
Portsmouth, NH 03801
(603) 433-7560

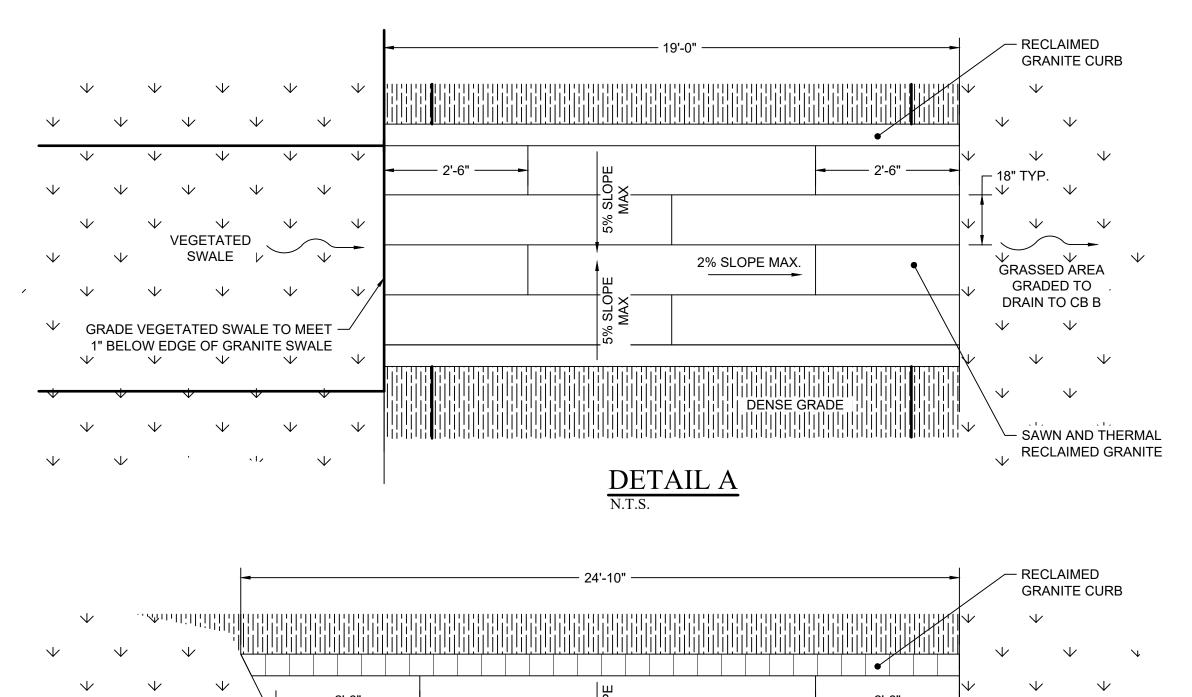
RODNEY D ROWLAND STRAWBERY BANKE MUSEUM, PO BOX 300, PORTSMOUTH, NH 03802

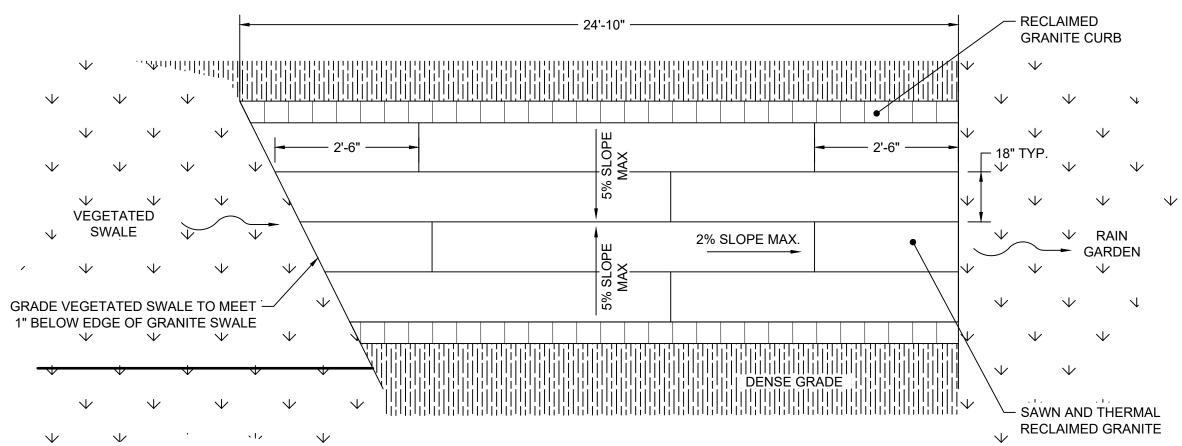
FRONT ENTRANCE

DETAILS WHIDDEN PL & NEWTON ST DRAINAGE IMPROVEMENTS PORTSMOUTH, NH 03801

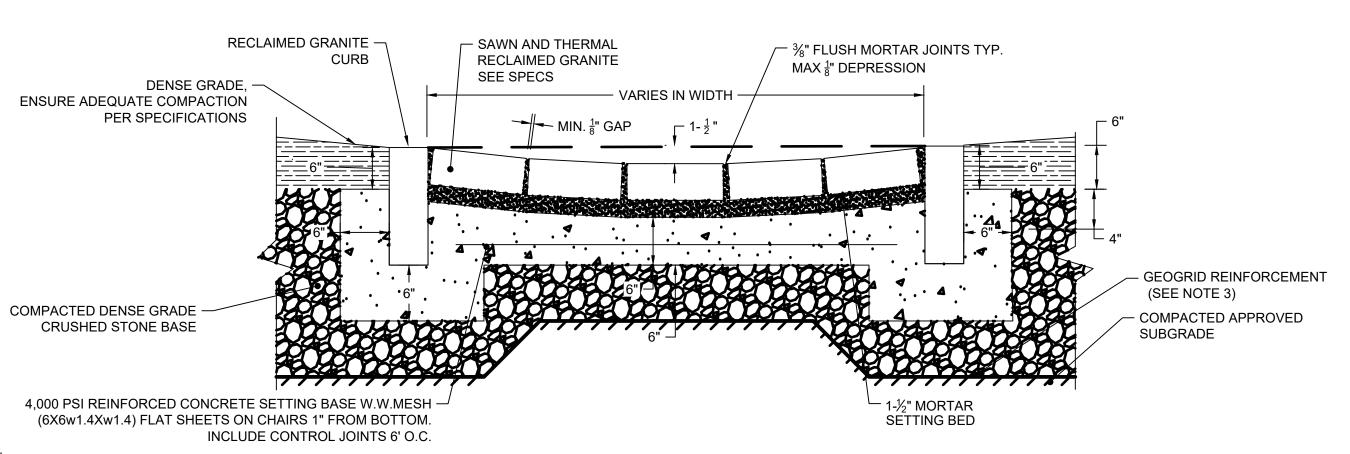
TAX MAP 104, LOT 7-9 DWG. N□. 22-027 | 6 OF 9 | 2





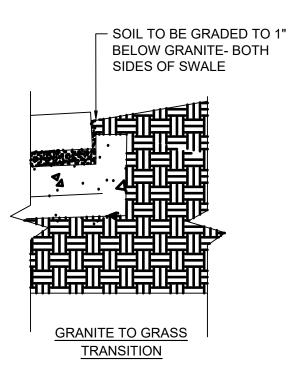


DETAIL B



- 1. THIS SWALE SECTION MUST BE ADA AND MAAB COMPLIANT. SPECIAL CARE SHOULD BE TAKEN DURING INSTALLATION OF GRANITE TO MAINTAIN A MAXIMUM VERTICAL DIFFERENCE BETWEEN ANY STONE OR TRANSITION OF $\frac{1}{4}$ ". TRANSITIONS BETWEEN SWALE AND CURBING SHOULD BE AS FLUSH AND SMOOTH AS PRACTICABLE. THE SLOPES OF THE SWALE SHALL BE 4.5% OR LESS.
- 2. THE RECLAIMED GRANITE CURB WILL SPAN THE 10' WIDE PATH, THE SAME WIDTH AS THE DENSE GRADE.
- 3. SEE AGGREGATE BASE COURSE SPECIFICATION FOR GEOGRID.

TYPICAL COBBLE SWALE CROSS SECTION N.T.S.



2	5/28/2025	REVISIONS	
1	4/21/2025	TAC SUBMITTAL	
ISS.	DATE	DESCRIPTION OF ISSUE	

SCALE 1" = 10' A.ROSS D.D.D.

CHECKED

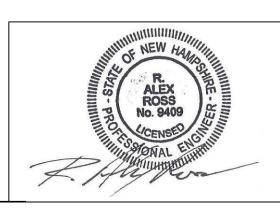
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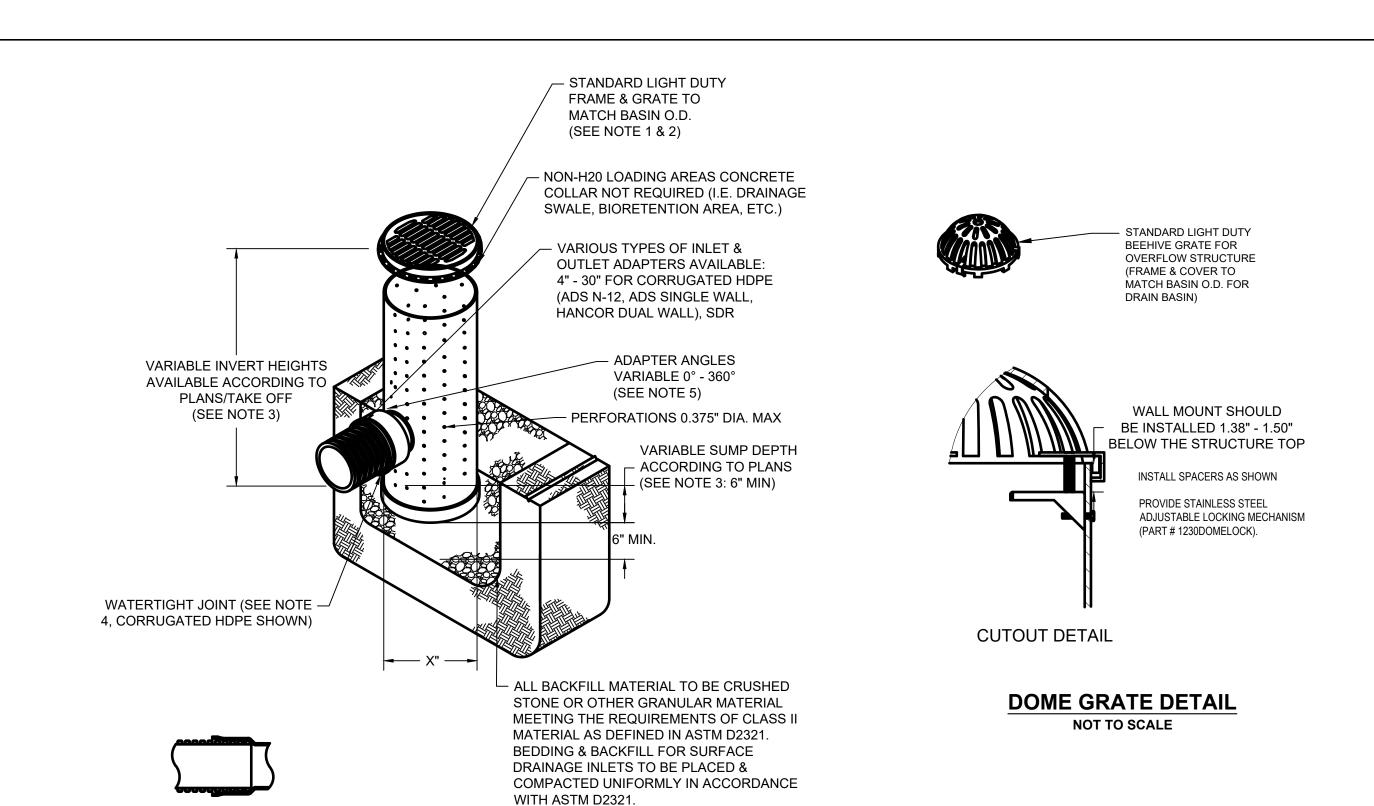
RODNEY D ROWLAND STRAWBERY BANKE MUSEUM, PO BOX 300, PORTSMOUTH, NH 03802

COBBLE

WHIDDEN PL & NEWTON ST DRAINAGE IMPROVEMENTS PORTSMOUTH, NH 03801 TAX MAP 104, LOT 7-9

22-027 | 7 OF 9 | 2





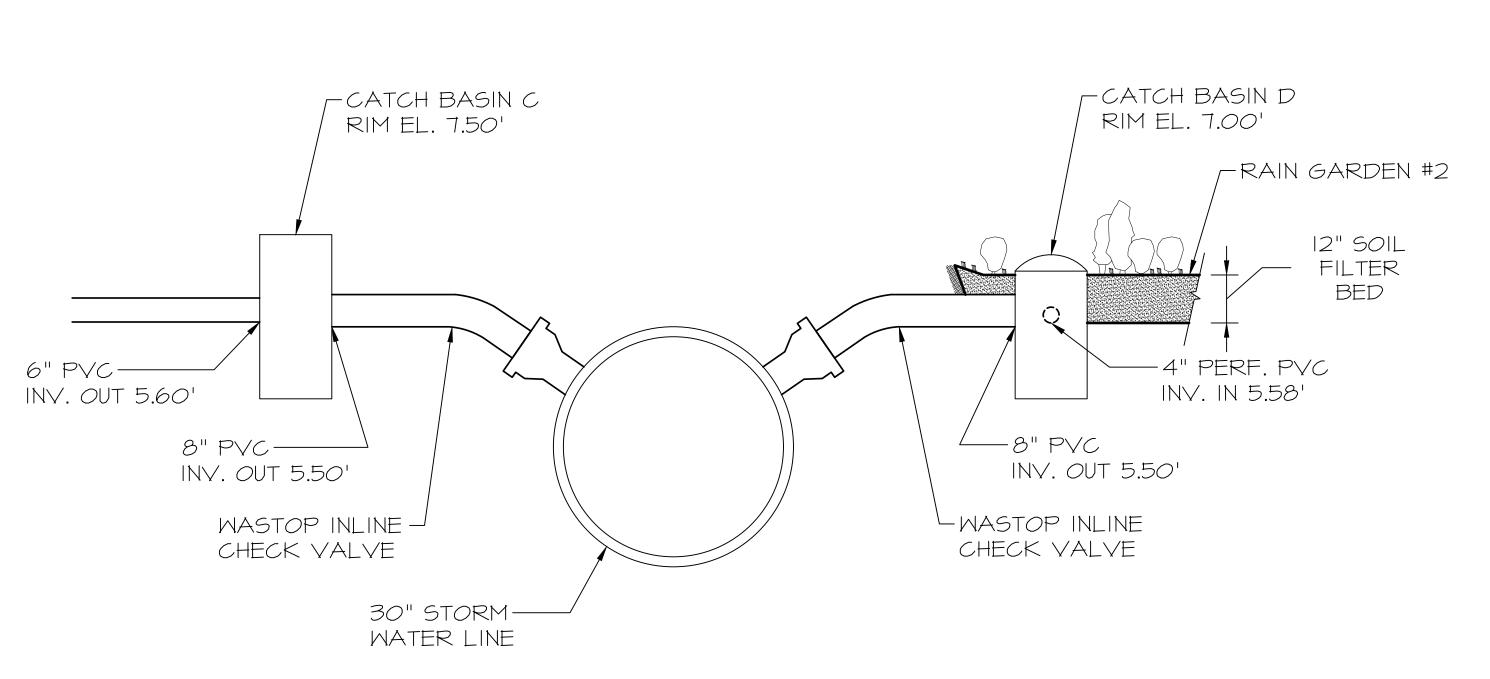
- GRATES/SOLID COVER TO BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05,
- FRAMES TO BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065
- 4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS TO CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014
- 6. TO PREVENT BLOCKAGE OF PERFORATIONS, BASIN SHOULD BE WRAPPED IN AN ENGINEER APPROVED GEO-TEXTILE FABRIC



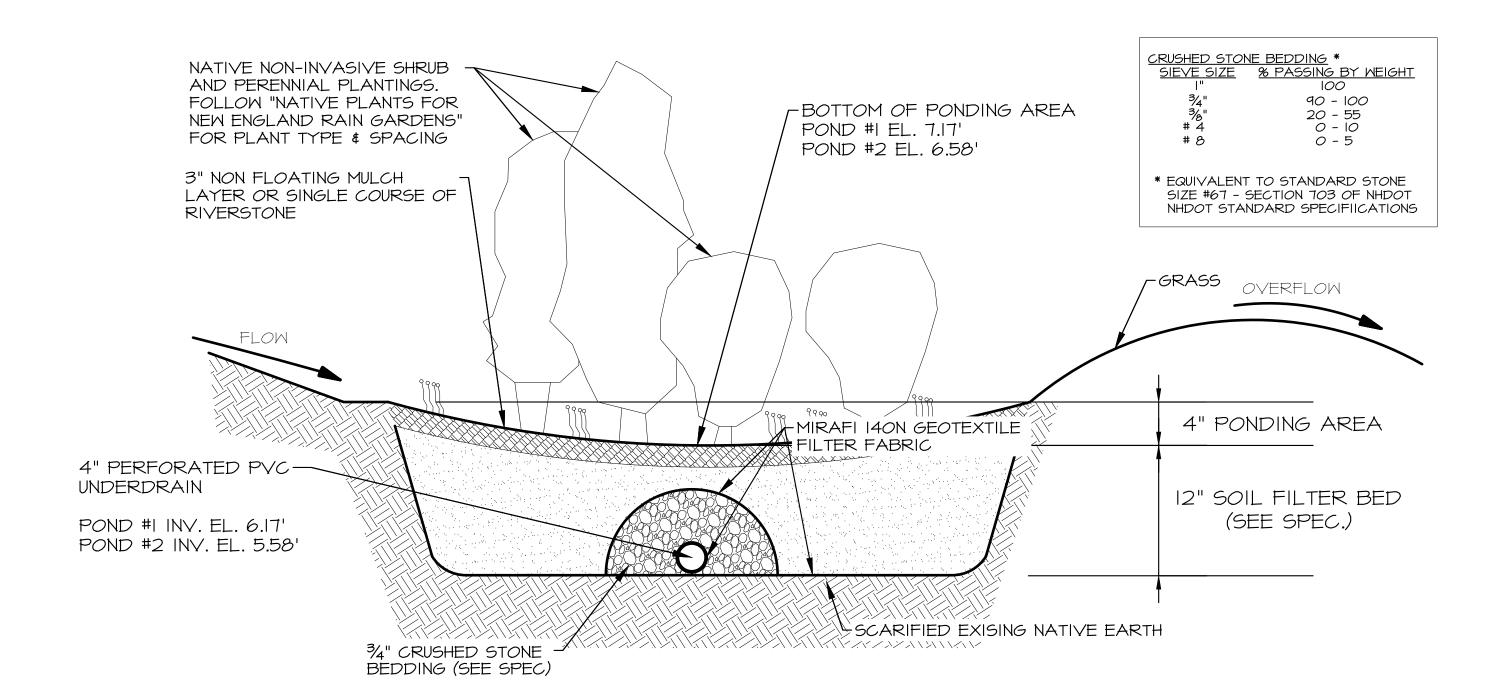
PERFORATED DRAIN BASIN

NOT TO SCALE

BY "NYLOPLAST" OR APPROVED EQUIVALENT



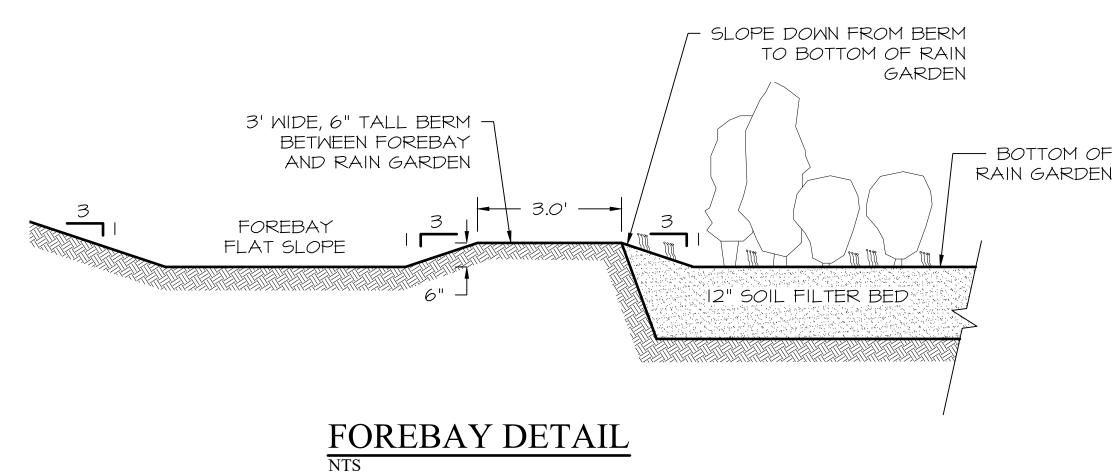




TYPICAL RAINGARDEN DETAIL

Component Material	Percent of Mixture	Gradation of Material		
	by Volume	Sieve No.	Percent by Weight Passing Standard Sieve	
Moderately fine shredded bark or wood fiber mulch, with fines as indicated		200	<5	
	70 to 80	10	85 to 100	
Loamy coarse sand		20	70 to 100	
Learny coar so saria		60	15 to 40	
		200	8 to 15	

FILTER MEDIA SPECIFICATION

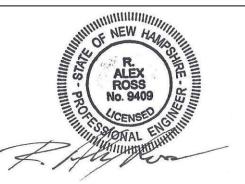


2	5/28/2025	REVISIONS	
1	4/21/2025	TAC SUBMITTAL	
122	. DATE	DESCRIPTION OF ISSUE	
SCA	1" = 10'		
CHE	A.ROSS		
DRA	D.D.D.		

CHECKED

ROSS ENGINEERING, LLC Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560

RODNEY D ROWLAND STRAWBERY BANKE MUSEUM, PO BOX 300, PORTSMOUTH, NH 03802



DETAILS

WHIDDEN PL & NEWTON ST DRAINAGE IMPROVEMENTS PORTSMOUTH, NH 03801 TAX MAP 104, LOT 7-9

DWG. N□. 22-027 | 8 OF 9 | 2 EROSION AND SEDIMENTATION CONTROL

CONSTRICTION PHASING AND SEQUENCING

I. SEE "EROSION AND SEDIMENTATION CONTROL GENERAL NOTES" WHICH ARE TO BE AN INTEGRAL PART OF THIS PROCESS.

2. INSTALL SILTSOXX FENCING AS PER DETAILS AND AT SEDIMENT MIGRATION.
3. CONSTRUCT TREATMENT SWALES, LEVEL SPREADERS AND DETENTION
STRUCTURES AS DEPICTED ON DRAWINGS.

4. STRIP AND STOCKPILE TOPSOIL. STABILIZE PILES OF SOIL CONSTRUCTION MATERIAL & COVER WHERE PRACTICABLE.

MATERIAL & COVER WHERE PRACTICABLE.

5. MINIMIZE DUST THROUGH APPROPRIATE APPLICATION OF WATER OR OTHER

DUST SUPPRESSION TECHNIQUES ON SITE.

6. ROUGH GRADE SITE. INSTALL CULVERTS AND ROAD DITCHES.

7. FINISH GRADE AND COMPACT SITE.
8. RE-SPREAD AND ADD TOPSOIL TO ALL ROADSIDE SLOPES. TOTAL TOPSOIL THICKNESS TO BE A MINIMUM OF FOUR TO SIX INCHES.

9. STABILIZE ALL AREAS OF BARE SOIL WITH MULCH AND SEEDING.
10. RE-SEED PER EROSION AND SEDIMENTATION CONTROL GENERAL NOTES.
11. SILT SOXX FENCING TO REMAIN AND BE MAINTAINED FOR TWENTY FOUR MONTHS AFTER CONSTRUCTION TO ENSURE ESTABLISHMENT OF ADEQUATE SOIL STABILIZATION AND VEGETATIVE COVER. ALL SILT SOXX FENCING ARE THEN TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.

12. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.

13. ALL TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC. MUST BE USED AS NECESSARY UNTIL AREAS ARE STABILIZED.

14. PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE - BEFORE ROUGH GRADING THE SITE.

15. ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING

RUNOFF TO THEM

16. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS

OF ACHIEVING FINISHED GRADE.

17. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.

18. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.

19. 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.

20. LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

PLANTING NOTES:

SEEDED.

I. ALL PLANT MATERIALS SHALL BE FIRST QUALITY NURSERY GROWN STOCK.

2. ALL PLANTS SHALL BE PLANTED IN ACCORDANCE WITH NEW HAMPSHIRE
LANDSCAPE ASSOCIATION STANDARDS AND GUARANTEED FOR ONE YEAR BY THE
LANDSCAPE CONTRACTOR.

3. ALL TREES AND SHRUBS SHALL HAVE WATER SAUCERS BUILT AROUND THEIR BASES AND THESE SHALL BE MULCHED WITH 4" OF DARK BROWN AGED BARK MULCH. MULCH MUST BE KEPT 2" AWAY FROM THEIR TRUNKS.
4. ALL TREES AND SHRUBS SHALL BE PLANTED AND MULCHED BEFORE LAWN IS

MAINTENANCE REQUIREMENTS

I. ALL TREES, SHRUBS, AND PERENNIALS WILL NEED TO BE WATERED THROUGH THANKSGIVING DURING THE FIRST SEASON IN WHICH THEY ARE INSTALLED.

2. AN UNDERGROUND DRIP IRRIGATION SYSTEM IS RECOMMENDED. IF AN UNDERGROUND DRIP IRRIGATION SYSTEM IS NOT INSTALLED, SOAKER HOSES WOUND THROUGHOUT PLANTING BEDS ARE ACCEPTABLE. ALTHOUGH OVERHEAD SPRINKLERS ARE RECOMMENDED FOR LAWN AREAS, THEY ARE NOT ACCEPTABLE FOR IRRIGATING TREES AND SHRUBS.

SEEDING AND STABILIZATION FOR LOAMED SITE:

FOR TEMPORARY & LONG TERM SEEDINGS USE AGWAY'S SOIL CONSERVATION GRASS SEED OR EQUAL COMPONENTS: ANNUAL RYE GRASS, PERENNIAL RYE GRASS, WHITE CLOVER, 2

FESCUES, SEED AT A RATE OF 100 POUNDS PER ACRE,
FERTILIZER & LIME:
NITROGEN (N) 50 LBS/ACRE, PHOSPHATE (P205) 100 LBS/ACRE, POTASH (K20) 100

LBS/ACRE, LIME 2000 LBS/ACRE
MULCH:
HAY OR STRAW 1.5-2 TONS/ACRE

A) GRADING AND SHAPING

A) GRADING AND SHAPING

I) SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE

B) SEED BED PREPARATION

WHEREVER PRACTICAL.

I) SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM
THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.

2) STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE
THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE
FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO
PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE
SEEDBED SHOULD BE LEET IN A REASONABLY FIRM AND SMOOTH CONDITION. THE

LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE

EROSION AND SEDIMENTATION CONTROL GENERAL NOTES

I. CONDUCT ALL CONSTRUCTION IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE PHYSICAL ENVIRONMENT, <u>BUT IN NO CASE SHALL EXCEED 2 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.</u>

2. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.

3. ALL DITCHES, SWALES AND PONDS MUST BE STABILIZED PRIOR TO DIRECTING FLOW TO THEM.

4. ALL GROUND AREAS OPENED UP FOR CONSTRUCTION WILL BE STABILIZED WITHIN 24 HOURS OF EARTH-DISTURBING ACTIVITIES BEING CEASED, AND WILL BE FULLY STABILIZED NO LONGER THAN 14 DAYS AFTER INITIATION, (SEE NOTE II FOR DEFINITION OF STABLE). ALL SOILS FINISH GRADED MUST BE STABILIZED WITHIN SEVENTY TWO HOURS OF DISTURBANCE. ALL TEMPORARY OR LONG TERM SEEDING MUST BE APPLIED TO COMPLY WITH "WINTER CONSTRUCTION NOTES" (SEE WINTER CONSTRUCTION NOTES). EMPLOY TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES AS DETAILED ON THIS PLAN AS NECESSARY

5. TEMPORARY & LONG TERM SEEDING: USE SEED MIXTURES, FERTILIZER, LIME AND MULCHING AS RECOMMENDED (SEE SEEDING AND STABILIZATION NOTES).
6. SILTSOXX FENCING TO BE SECURELY EMBEDDED AND STAKED AS DETAILED. WHEREVER POSSIBLE A VEGETATED STRIP OF AT LEAST TWENTY FIVE FEET IS TO BE KEPT BETWEEN SILTSOXX AND ANY EDGE OF WET AREA.

UNTIL ADEQUATE STABILIZATION HAS BEEN ASSURED (SEE NOTE II FOR DEFINITION

7. SEEDED AREAS WILL BE FERTILIZED AND RE-SEEDED AS NECESSARY TO ENSURE VEGETATIVE ESTABLISHMENT.

8. SEDIMENT BASIN(S), IF REQUIRED, TO BE CHECKED AFTER EACH SIGNIFICANT RAINFALL AND CLEANED AS NEEDED TO RETAIN DESIGN CAPACITY.

9. SILTSOXX FENCING WILL BE CHECKED REGULARLY AND AFTER EACH SIGNIFICANT RAINFALL. NECESSARY REPAIRS WILL BE MADE TO CORRECT UNDERMINING OR DETERIORATION OF THE BARRIER AS WELL AS CLEANING,

REMOVAL AND PROPER DISPOSAL OF TRAPPED SEDIMENT.

10. TREATMENT SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN

NECESSARY UNTIL ADEQUATE VEGETATIVE COVER HAS BEEN ESTABLISHED.

11. AN AREA SHALL BE CONSIDERED FULLY STABLE IF 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 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED.

• EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

II. ALL EROSION AND SEDIMENTATION CONTROL MEASURES IN THE PLAN SHALL MEET THE DESIGN BASED ON STANDARDS AND SPECIFICATIONS SET FORTH IN THE STORM WATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE (DECEMBER 2008 OR LATEST) PREPARED BY ROCKINGHAM COUNTY CONSERVATION DISTRICT, N.H. DES AND NRCS.

WINTER CONSTRUCTION NOTES

OF STABLE).

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

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

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

LONG TERM SEEDING
*WELL TO MODERATELY WELL DRAINED SOILS

FOR CUT AND FILL AREA AND FOR WATERWAYS AND CHANNELS

SEEDING MIXTURE C

	Ib/ACRE	<u>lb/10005F</u>
TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
RED CLOVER (ALSIKE)	<u>20</u>	<u>0.45</u>
TOTAL	48	1.35

LIME: AT 2 TONS PER ACRE OR 100 LBS PER 1,000 S.F.
FERTILIZER: 10 20 20 (NITROGEN, PHOSPHATE, POTASH AT 500# PER ACRE.
MULCH: HAY OR CLEAN STRAW; 2 TONS/ACRE OR 2 BALES/1000 S.F.

GRADING AND SHAPING:

SLOPES SHALL NOT BE STEEPER THAN 2 TO 1. 3 TO 1 OR FLATTER SLOPES ARE PREFERRED.

SEEDBED PREPARATION:

SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.

STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED.

SOD SHOULD BE TILLED TO A DEPTH OF FOUR INCHES TO PREPARE

SEEDBED. FERTILIZER & LIME SHOULD BE MIXED INTO THE SOIL.

THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH

CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED

ACROSS THE SLOPE WHEREVER PRACTICAL.

* FROM: STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE, DECEMBER 2008.

SHORT TERM SEEDING

*WELL TO MODERATELY WELL DRAINED SOILS

FOR CUT AND FILL AREA AND FOR WATERWAYS AND CHANNELS

SEEDING MIXTURE C

	#/ACRE	<u>#/1000SF</u>
FOR APRIL I - AUGUST 15		
ANNUAL RYE GRASS	40	
FOR FALL SEEDING		
WINTER RYE	112	2.5

LIME: AT I TON PER ACRE OR 100 LBS PER 1,000 S.F.
FERTILIZER: 10 10 10 (NITROGEN, PHOSPHATE, POTASH AT 500# PER ACRE.
MULCH: HAY OR CLEAN STRAW; 2 TONS/ACRE OR 2 BALES/1000 S.F.

GRADING AND SHAPING:

SLOPES SHALL NOT BE STEEPER THAN 2 TO 1. 3 TO 1 OR FLATTER SLOPES ARE PREFERRED.

SEEDBED PREPARATION:

SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM
THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED.
SOD SHOULD BE TILLED TO A DEPTH OF FOUR INCHES TO PREPARE
SEEDBED. FERTILIZER & LIME SHOULD BE MIXED INTO THE SOIL.
THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH
CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED
ACROSS THE SLOPE WHEREVER PRACTICAL.

* FROM: STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE, DECEMBER 2008.

WHEN PROPOSED FOR ALTERATION DURING CONSTRUCTION AS BEING INFESTED WITH INVASIVE SPECIES SHALL BE MANAGED APPROPRIATELY USING THE DISPOSAL PRACTICES IDENTIFIED IN "NHDOT - BEST MANAGEMENT PRACTICES FOR ROADSIDE INVASIVE PLANTS -2008" AND "METHODS FOR DISPOSING NON-NATIVE INVASIVE PLANTS - UNH COOPERATIVE EXTENSION - 2010"

SEED MIXES SHALL NOT CONTAIN ANY SPECIES IDENTIFIED BY THE NEW HAMPSHIRE PROHIBITED INVASIVE PLANT SPECIES LIST.

MAINTENANCE NOTES

A. MAINTENANCE OF COMMON FACILITIES OR PROPERTY

1. FUTURE OWNERS OR ASSIGNS ARE RESPONSIBLE FOR MAINTENANCE OF ALL STORMWATER INFRASTRUCTURE ASSOCIATED WITH THE FACILITY AND THE PROPERTY. THIS INCLUDES THE ROOF DRAINAGE SYSTEM, CISTERN, STORMWATER POND, PERVIOUS PAVERS, STORM TECH CHAMBERS, LANDSCAPED AREAS, PERVIOUS ASPHALT AND CONTECH TREATMENT STRUCTURE.

B. GENERAL INSPECTION AND MAINTENANCE REQUIREMENTS

1. PERMANENT STORMWATER AND SEDIMENT AND EROSION CONTROL FACILITIES TO BE MAINTAINED ON THE SITE INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

a. RAIN GARDEN

b. SWALES (COBBLE AND VEGETATED)

c. CATCH BASINS

2. MAINTENANCE OF PERMANENT MEASURES SHALL FOLLOW THE FOLLOWING SCHEDULE:

a. RAIN GARDE

THE FOLLOWING RECOMMENDATIONS WILL HELP ASSURE THAT THE RAIN GARDEN IS MAINTAINED TO PRESERVE ITS EFFECTIVENESS:

i. INSPECT SYSTEM AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EVENT EXCEEDING 2.5 INCHES IN A 24 HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS WARRANTED BY SUCH INSPECTION.

ii. TRASH AND DEBRIS SHOULD BE REMOVED AT EACH INSPECTION.

iii. AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR DRAWDOWN TIME. IF THE SYSTEM DOES NOT DRAIN WITHIN 72-HOURS FOLLOWING A RAINFALL EVENT, THEN A QUALIFIED PROFESSIONAL SHOULD ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE FILTRATION FUNCTION OR INFILTRATION FUNCTION (AS APPLICABLE), INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE FILTER MEDIA.

iv. VEGETATION SHOULD BE INSPECTED AT LEAST ANNUALLY, AND MAINTAINED IN HEALTHY CONDITION, INCLUDING PRUNING, REMOVAL AND REPLACEMENT OF DEAD OR DISEASED VEGETATION, AND REMOVAL OF INVASIVE SPECIES.

b. **SWALES (COBBLE AND VEGETATED)**

i. GRASSED CHANNELS SHOULD BE INSPECTED PERIODICALLY (AT LEAST ANNUALLY) FOR SEDIMENT ACCUMULATION, EROSION, AND CONDITION OF SURFACE LINING (VEGETATION OR RIPRAP). REPAIRS, INCLUDING STONE OR VEGETATION REPLACEMENT, SHOULD BE MADE BASED ON THIS INSPECTION.

$ii.\ REMOVE\ SEDIMENT\ AND\ DEBRIS\ ANNUALLY,\ OR\ MORE\ FREQUENTLY\ AS\ WARRANTED\ BY\ INSPECTION.$

iii. MOW VEGETATED CHANNELS AT LEAST ONCE PER YEAR IS REQUIRED TO CONTROL ESTABLISHMENT OF WOODY VEGETATION. IT IS RECOMMENDED TO CUT GRASS NO SHORTER THAN 4 INCHES.

c. <u>CATCH BASINS</u>

i. INSPECT TWICE A YEAR, MORE OFTEN IF NEEDED. INSPECT FOR ACCUMULATION OF DEBRIS. REMOVE MATERIAL FROM SUMP AND INLET/OUTLET AS NECESSARY, DISPOSE OF OFFSITE.

C. OWNERS SHALL PROVIDE A REPORT ON ACTIVITIES PERFORMED THROUGHOUT THE YEAR. REPORT SHALL INCLUDE DOCUMENTATION THAT INSPECTION AND MAINTENANCE IS ACCOMPLISHED PER THIS DOCUMENT AND A CERTIFICATION THAT THE SYSTEMS CONTINUE TO FUNCTION AS DESIGNED. AN ANNUAL REPORT WILL BE SUBMITTED TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS.

INSERT REBAR TO REMOVE AND DUMP SILTSACK BASIN BASIN

SILTSACK IS TO BE SECURED BY WEIGHT OF BASIN GRATE TO PREVENT SEDIMENT FROM ENTERING THE DRAIN LINE

INSTALL SILTSACK TO CATCH BASINS ON WASHINGTON ST AND ON SITE PRIOR TO CONSTRUCTION & TO CATCH

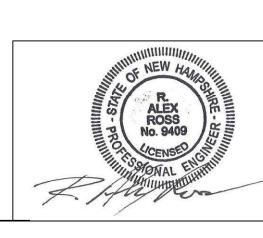
BASINS A, B, C, D, & E DURING CONSTRUCTION. DO NOT

REMOVE SILTSACK UNTIL CONSTRUCTION IS COMPLETE.

Siltsack

DATE OF SATISFACTORY: MAINTENANCE | IMPLEMENTED DATE OF | MHO FINDINGS OF ACTIVITY INSPECTION INSPECTED YES, NO, N/A NEEDED INSPECTOR CORRECTIVE ACTION RAIN GARDEN COBBLE & VEGETATED SMALES CATCH BASINS

STORMWATER INSPECTION & MAINTENANCE LOG



2	5/28/2025	REVISIONS			
1	4/21/2025	TAC SUBMITTAL			
ISS.	DATE	DESCRIPTION OF ISSUE			
SCA	SCALE 1" = 10'				
CHECKED A.ROSS					
DRA	RAWN D.D.D.				

ROSS ENGINEERING, LLC
Civil/Structural Engineering
& Surveying
909 Islington St.
Portsmouth, NH 03801
(603) 433-7560

CHECKED

CLIENT
RODNEY D ROWLAND
STRAWBERY BANKE MUSEUM,
PO BOX 300,
PORTSMOUTH, NH 03802

EROSION CONTROL

WHIDDEN PL & NEWTON ST DRAINAGE IMPROVEMENTS PORTSMOUTH, NH 03801 TAX MAP 104, LOT 7-9

3 NUMBER DWG. ND. ISSU 22-027 9 OF 9 2

Findings of Fact | Site Plan Review City of Portsmouth Planning Board

Date: <u>June 18, 2025</u>

Property Address: 400 Spaulding Turnpike

Application #: LU-25-50

Decision:

Approve Deny Approve with Conditions

Findings of Fact:

Per RSA 676:3, I: The local land use board shall issue a final written decision which either approves or disapproves an application for a local permit and make a copy of the decision available to the applicant. The decision shall include specific written findings of fact that support the decision. Failure of the board to make specific written findings of fact supporting a disapproval shall be grounds for automatic reversal and remand by the superior court upon appeal, in accordance with the time periods set forth in RSA 677:5 or RSA 677:15, unless the court determines that there are other factors warranting the disapproval. If the application is not approved, the board shall provide the applicant with written reasons for the disapproval. If the application is approved with conditions, the board shall include in the written decision a detailed description of the all conditions necessary to obtain final approval.

Site Plan Regulations Section 2.9 Evaluation Criteria - in order to grant site plan review approval, the TAC and the Planning Board shall find that the application satisfies evaluation criteria pursuant to NH State Law and listed herein. In making a finding, the TAC and the Planning Board shall consider all standards provided in Articles 3 through 11 of these regulations.

	Site Plan Review Regulations Section 2.9 Evaluation Criteria	Finding (Meets Standard/Criteria)	Supporting Information
1	Compliance with all City Ordinances and Codes and these regulations. Applicable standards:	<u>Meets</u> Does Not Meet	Applicable standards: Site Plan Review Regulations Section 2.15.1 – Minor amendment for after-the- fact review and administrative approval. Zoning Ordinance Article 10, Environmental Protection Standards, Section 1017.60 - Public and Private Utilities within Rights-of-Way in Wetlands and Wetland Buffers.
2	Provision for the safe development, change or expansion of use of the site.	Meets Does Not Meet	The project does not include any expansion or change in use; a gate will be installed to maintain safe access for utility maintenance on the right-of-way.

	Site Plan Review Regulations Section 2.9 Evaluation Criteria	Finding (Meets Standard/Criteria)	Supporting Information
3	Adequate erosion control and stormwater management practices and other mitigative measures, if needed, to prevent adverse effects on downstream water quality and flooding of the property or that of another.	<u>Meets</u> Does Not Meet	The existing gravel access driveway is stable and perimeter protective measures consisting of silt socks were installed to minimize potential impacts to nearby wetlands. Appropriate erosion and sediment controls will be implemented during the installation of the gate.
4	Adequate protection for the quality of groundwater.	<u>Meets</u> Does Not Meet	The project does not include any expansion or increase in developed areas. Adequate water quality protects were implemented during the utility maintenance project and the proposed gate will not affect groundwater quality.
5	Adequate and reliable water supply sources.	Meets Does Not Meet	The project does not include any expansion or increase in developed areas. Adequate water quality protects were implemented during the utility maintenance project and the proposed gate will not affect groundwater quantity.
6	Adequate and reliable sewage disposal facilities, lines, and connections.	Meets Does Not Meet	The proposed gate and access drive do not affect sewage facilities on the site.
7	Absence of undesirable and preventable elements of pollution such as smoke, soot, particulates, odor, wastewater, stormwater, sedimentation or any other discharge into the environment which might prove harmful to persons, structures, or adjacent properties.	Meets Does Not Meet	The project does not include any expansion or increase in developed areas. Adequate water quality protects were implemented during the utility maintenance project and the existing gravel access drive is stable.
8	Adequate provision for fire safety, prevention and control.	Meets Does Not Meet	The proposed gate and access drive do not affect fire safety, prevention, or control.

	Site Plan Review Regulations	Finding	Supporting Information
	Section 2.9 Evaluation Criteria	(Meets Standard/Criteria)	
9	Adequate protection of natural features such as, but not limited to, wetlands.	<u>Meets</u> Does Not Meet	The project does not include any expansion or increase in developed areas. Water quality protects were implemented during the utility maintenance project to minimize potential impacts to nearby wetlands. Appropriate erosion and sediment controls will be implemented during the installation of the gate.
10	Adequate protection of historical features on the site.	Meets Does Not Meet	A "no affect" finding was provided by the NH Division of Historical Resources during their review of the 2023/2024 utility maintenance project.
11	Adequate management of the volume and flow of traffic on the site and adequate traffic controls to protect public safety and prevent traffic congestion.	Meets Does Not Meet	The proposed gate and access drive do not affect traffic flow.
12	Adequate traffic controls and traffic management measures to prevent an unacceptable increase in safety hazards and traffic congestion off-site.	Meets Does Not Meet	The proposed gate and access drive do not affect traffic flow.
13	Adequate insulation from external noise sources.	Meets Does Not Meet	The proposed gate and access drive do not generate noise or affect external noise.
14	Existing municipal solid waste disposal, police, emergency medical, and other municipal services and facilities adequate to handle any new demands on infrastructure or services created by the project.	<u>Meets</u> Does Not Meet	The proposed gate and access drive do create any new demand for municipal services or public facilities.
15	Provision of usable and functional open spaces of adequate proportions, including needed recreational facilities that can reasonably be provided on the site	Meets Does Not Meet	The proposed gate and access drive are limited to Eversource's maintenance of the utility right of way and not reasonably available for functional open space or recreational opportunity.

	Site Plan Review Regulations Section 2.9 Evaluation Criteria	Finding (Meets Standard/Criteria)	Supporting Information
16	Adequate layout and coordination of on-site accessways and sidewalks in relationship to off-site existing or planned streets, accessways, bicycle paths, and sidewalks.	Meets Does Not Meet	The proposed gate and access drive are limited to Eversource's maintenance of the utility right of way and not reasonably available for public access.
17	Demonstration that the land indicated on plans submitted with the application shall be of such character that it can be used for building purposes without danger to health.	Meets Does Not Meet	The project does not include any expansion or change in use; a gate will be installed to maintain safe access for utility maintenance on the right-of-way.
18	Adequate quantities, type or arrangement of landscaping and open space for the provision of visual, noise and air pollution buffers.	Meets Does Not Meet	The project does not include any landscaping or open space; a gate will be installed to maintain safe access for utility maintenance on the right-of-way.
19	Compliance with applicable City approved design standards.	Meets Does Not Meet	The gravel access drive and proposed gate on Portsmouth Ford's parcel represents a Minor Amendment to the current Site Plan.

Other Board Findings:

- Work was completed by Eversource on the subject property in 2024 under a
 Conditional Use Permit (CUP) granted by the City on June 22, 2023 (LU-23-60).
 Eversource replaced forty-five (45) wooden utility structures with steel structures on the
 E194 and U181 Lines in Portsmouth and Newington.
- The CUP permitted direct impacts to the adjacent wetland and to the wetland buffer.
 Following CUP approval, Eversource obtained landowner authorization from the
 Portsmouth Ford to access the right-of-way directly from Echo Avenue. As such,
 Structures 19 and 19 (E194 and U181) were accessed by a more direct route with no
 wetland impacts.
- Review and after-the-fact approval of an updated CUP with the amended wetland buffer impact has been requested by Eversource to the City of Portsmouth Conservation Commission and Planning Board under separate cover.
- Eversource proposes to retain the constructed access to Structures 19 and 19 (E194 and U181) for future maintenance and emergency repairs.
- Where permanent access through the buffer to Structures 19 is requested, the existing boulder barricade will be replaced with a steel gate, resulting in a change to Portsmouth Ford's previously approved Site Plan.

Findings of Fact | Wetland Conditional Use Permit City of Portsmouth Planning Board

Date: <u>June 18, 2025</u>

Property Address: 400 Spaulding Tpke.

Application #: LU-25-50

Decision: ☐ Approve ☐ Deny ☐ Approve with Conditions

Findings of Fact:

Per RSA 676:3, I: The local land use board shall issue a final written decision which either approves or disapproves an application for a local permit and make a copy of the decision available to the applicant. The decision shall include specific written findings of fact that support the decision. Failure of the board to make specific written findings of fact supporting a disapproval shall be grounds for automatic reversal and remand by the superior court upon appeal, in accordance with the time periods set forth in RSA 677:5 or RSA 677:15, unless the court determines that there are other factors warranting the disapproval. If the application is not approved, the board shall provide the applicant with written reasons for the disapproval. If the application is approved with conditions, the board shall include in the written decision a detailed description of all conditions necessary to obtain final approval.

In order to grant Wetland Conditional Use permit approval the Planning Board shall find the application satisfies criteria set forth in the Section 10.1017.50 (Criteria for Approval) of the Zoning Ordinance.

	Zoning Ordinance Sector 10.1017.50 Criteria for Approval	Finding (Meets Criteria for Approval)	Supporting Information
1	1. The land is reasonably suited to the use activity or alteration.	Meets Does Not Meet	This work was part of a previously approved project that had previously approved impact to the wetland for access to Eversource's Pole #19. The actual work that occurred eliminated the impact to the wetland resource and shifted impacts to the wetland buffer.
2	2. There is no alternative location outside the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.	Meets Does Not Meet	The poles that had to be replaced are located directly within the wetland buffer behind the Ford Dealership. To access the poles, there is no way to bring in equipment without entering into the buffer.

	Zoning Ordinance Sector 10.1017.50 Criteria for Approval	Finding (Meets Criteria for Approval)	Supporting Information
3	3. There will be no adverse impact on the wetland functional values of the site or surrounding properties.	Meets Does Not Meet	After work on replacing the poles finished, the work pad directly under the poles was naturally revegetated which is the area adjacent to the wetland to the north. The most adverse impact of this project is the permanence of the crushed gravel access road leading to the poles. This was left in place for future maintenance needs but a silt soxx buffers it from the wetland to the south, which should remain as a permanent installation with replacement over time as needed.
4	4. Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals.	Meets Does Not Meet	The temporary alteration to the buffer that occurred as part of this work included the work pad underneath the poles. This area has been allowed to naturally revegetate, which has since occurred. The access road has altered the natural vegetative state but it was noted during the site walk that vegetation is already growing through it and a silt soxx remains in place to protect the adjacent wetland. This seems sufficient for buffering the wetland from the permanent impacts of the accessway.
5	5. The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this section.	Meets Does Not Meet	When this violation of the original permit was first noticed, the work pad had not yet revegetated, and the access road contained many layers of crushed gravel for accessing the poles and for parking Ford Dealership vehicles off lot. Since this occurred, an agreement has been made to prevent future parking of vehicles within this area, a silt soxx has been replaced south of the accessway to prevent impact to the wetland, the property owners have removed a large amount of gravel from the accessway, and the work pad has started to naturally revegetate.

	Zoning Ordinance Sector 10.1017.50 Criteria for Approval	Finding (Meets Criteria for Approval)	Supporting Information
6	6. Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.	Meets Does Not Meet	The work pad area has been returned to a natural state and while it is not feasible to allow full revegetation of the accessway due to future needs for maintenance, most of the crushed gravel has been removed which created a much thinner layer of impact to the buffer, allowing vegetation to poke through in some areas.
7	Other Board Findings:		



City of Portsmouth, New Hampshire

Wetland Conditional Use Permit Application Checklist

This wetland conditional use permit application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Conservation Commission and Planning Board review. The checklist is required to be uploaded as part of your wetland conditional use permit application to ensure a full and complete application is submitted to the Planning and Sustainability Department and to the online portal. A pre-application conference with a member of the Planning and Sustainability Department is encouraged as additional project information may be required depending on the size and scope of the project. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all wetland conditional use permit requirements. Please refer to Article 10 of the City of Portsmouth Zoning Ordinance for full details.

Applicant Responsibilities: Applicable fees are due upon application submittal to the Planning Board (no fees are required for Conservation Commission submission). The application will be reviewed by Planning and Sustainability Department staff to determine completeness. Incomplete applications which do not provide required information for the evaluation of the proposed site development shall not be provided review by the Conservation Commission or Planning Board.

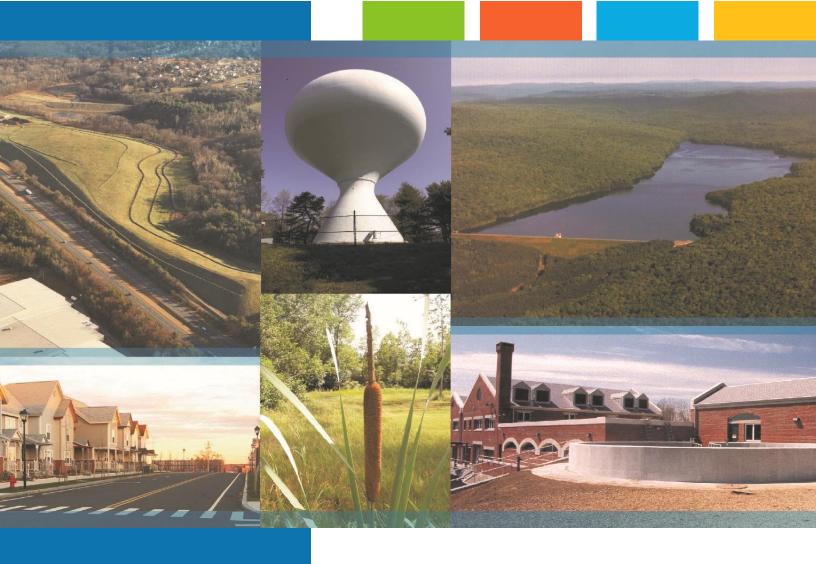
Name of Applicant: Eversource Energy	Date Submitted: <u>03/25/2025</u>
Application # (in City's online permitting): LU-25-50	
Site Address: 400 Spaulding Turnpike	238 Lot: 2

Ø	Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)
'	Complete <u>application</u> form submitted via the City's web-based permitting program	Section 2.1, Page 2-1
'	All application documents, plans, supporting documentation, this checklist and other materials uploaded to the application form in OpenGov in digital Portable Document Format (PDF) . One hard copy of all plans and materials shall be submitted to the Planning and Sustainability Department by the published deadline.	online 03/25/2025; hard copy 04/17/2025; Section 4, Page 4-1

V	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
'	Basic property and wetland resource information. (10.1017.21)	Section 2.1, Page 2-1
'	Additional information required for projects proposing greater than 250 square feet of permanent or temporary impacts. (10.1017.22)	Section 2.2, Page 2-1; Section 4.1.1, Page 4-2; Appendix B
'	Demonstrate impacts as they relate to the criteria for approval set forth in Section 10.1017.50 (or Section 10.1017.60 in the case of utility installation in a right-of-way). (10.1017.23)	online 03/25/2025; hard copy 04/17/2025; Section 4, Page 4-1
'	Balance impervious surface impacts with removal and/or wetland buffer enhancement plan. (10.1017.24)	Section 4.1.2, Page 4-2

\square	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
•	Wetland buffer enhancement plan. (10.1017.25)	Section 4.1.2, Page 4-2
	Living shoreline strategy provided for tidal wetland and/or tidal buffer impacts. (10.1017.26)	N/A
V	Stormwater management must be in accordance with Best Management Practices including but not limited to: 1. New Hampshire Stormwater Manual, NHDES, current version. 2. Best Management Practices to Control Non-point Source Pollution: A Guide for Citizens and City Officials, NHDES, January 2004. (10.1018.10)	Section 4.2.1, 4.3.2, Page 4-2; project plans, Appendix A
	Vegetated Buffer Strip slope of greater than or equal to 10%. (10.1018.22)	N/A
	Removal or cutting of vegetation, use of fertilizers, pesticides and herbicides. (10.1018.23/10.1018.24/10.1018.25)	N/A
	All new pavement within a wetland buffer shall be porous pavement. (10.1018.31)	N/A
	An application that proposes porous pavement in a wetland buffer shall include a pavement maintenance plan. (10.1018.32)	N/A
	Permanent wetland boundary markers shall be shown on the plan submitted with an application for a conditional use permit and shall be installed during project construction. (10.1018.40)	N/A
Ø	Requested Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)
•	A narrative/letter addressed to the Conservation Commission Chair (if recommended to Planning Board then an additional narrative addressed to the Planning Board Chair at that time) describing the project and any proposed wetland and/or wetland buffer impacts. Please visit the WCUP instruction page for further application instructions.	online 03/25/2025; hard copy 04/17/2025
'	If New Hampshire Department of Environmental Services (NHDES) Standard Dredge and Fill Permit is required for this work, please provide this permit application at the same time as your submission for a Wetland Conditional Use Permit.	NHDES Utility SPN 2022-03496, received 10/06/2023

Applicant's Signature: Stefam M. Tutreauct Date: 05/02/2025



E194 and U181 Structure Replacement Project Echo Avenue, Portsmouth, New Hampshire

CITY OF PORTSMOUTH AFTER-THE-FACT CONDITIONAL USE PERMIT

Eversource Energy 13 Legends Drive Hooksett, New Hampshire

March 2025

Tighe&Bond





E5034-200 May 30, 2025

Rick Chellman, Chair City of Portsmouth Planning Board 1 Junkins Avenue Portsmouth, New Hampshire 03801

Re: Eversource E194 and U181 Structure Replacement Project
After-the-Fact Wetland Conditional Use Permit
Echo Avenue, Portsmouth, NH

Dear Mr. Chellman and Members of the Planning Board:

On behalf of Eversource Energy dba Public Service Company of New Hampshire (Eversource), Tighe & Bond is submitting the following after-the-fact Conditional Use Permit (CUP) for the above referenced project.

This work was completed under an existing CUP which was granted on June 22, 2023 (LU-23-60). Eversource Energy replaced forty-five (45) wooden utility structures with steel structures on the E194 and U181 Lines in Portsmouth and Newington, due to their overall age and condition. As part of the approved access to Structures 19 and 19 (E194 and U181), the CUP permitted 6,286 square feet (SF) of impacts to the adjacent wetland and 1,644 SF of impacts to the wetland buffer.

Following City approval and the issuance of the CUP, Eversource obtained landowner authorization from the Portsmouth Ford auto dealership to access the right-of-way (ROW) directly from Echo Avenue. As such, construction deviated from what was permitted by the CUP in this area, and both structures were accessed by a more direct route with no wetland impacts. This re-route eliminated direct wetland impacts; however, impacts within the wetland buffer increased from the permitted 1,644 SF to an as-built total of 3,685 SF.

Enclosed is a project description and supporting documents for a request to permit after-the-fact wetland buffer impacts associated with the constructed access to Structures 19, including project mapping, the Wetland Resource Area Description and Assessment Report that was included in the original 2023 CUP application, and representative site photographs.

The Conservation Commission reviewed this CUP at its meeting on May 14, 2025, and voted to recommend approval of this application to the Planning Board with the following conditions:

- 1. In accordance with Section 10.1018.40 of the Zoning Ordinance, applicant shall permanently install wetland boundary markers, which may be purchased through the City of Portsmouth Planning & Sustainability Department. The Commission recommends placing two markers on either side of the proposed gate at the bottom of the access road. These markers must be installed prior to the start of any work.
- 2. Applicant shall include a note on this plan set to indicate that parking and/or vehicle storage is prohibited in this accessway unless required for utility maintenance by Eversource.

Pursuant to Condition #1, wetland boundary markers will be installed on either side of the proposed gate prior to the start of work. Pursuant to Condition #2, the Site Plan has been updated to include the suggested note regarding parking and/or vehicle storage being prohibited. A copy of the updated Site Plan (dated January 7, 2025, revised through May 27,



2025) was filed with the City Planning Department and uploaded to the City's online permit system on May 28, 2025.

We trust the enclosed information addresses the requirements for the CUP application and site plan approval. If you have any questions or require any additional information, please feel free to contact me at (603) 231-9918 or at STetreault@tighebond.com.

Respectfully,

TIGHE & BOND, INC.

Stefanie M. Tetreault Project Manager

Enclosures

Copy: Conservation Commission, City of Portsmouth

Ashley Friend, Licensing and Permitting, Eversource Energy

4.3

Filing Fee Check (File Copy)

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Tighe&Bond

Appendices

- A Project Mapping
- B 2023 Wetland Resource Area Description and Assessment Report
- C Site Photographs



FILE COPY

FILE COPY

Check Details

Check issued: 01/30/2025 Check number: 9036 From: Tighe & Bond, Inc.

Amount: \$1,300.00

Payable to: City of Portsmouth

Delivered to: jdegler@tighebond.com **Documents:** Yes - see Remittance below

Message from sender: Hi, attached is your Tighe & Bond electronic check. Any questions please email

AP@tighebond.com.

Notes

Activity

ACTIVITY TYPE	TIME	DATE
Tracy Houle issued check 9036	08:13 AM EST	01/31/2025
Check 9036 printed by Jeremy Degler	16:44 PM EDT	03/13/2025
Check 9036 file copy printed by Jeremy Degler	16:45 PM EDT	03/13/2025

Section 1 Project Description

From October 2023 through June 2024, Eversource Energy replaced forty-five (45) wooden utility structures with steel structures on the E194 and U181 Transmission Lines in Portsmouth and Newington, due to their overall age and condition. Forty-two (42) of these structures were located within Portsmouth. These included Structures 13-16, 19, 37-41, 43-45, 48-54, 65.5 and 66 on the U181 Line, and Structures 12-14, 19, 41-53, 65.5, and 66 on the E194 Line. Additionally, static wire work was conducted at STRs 65-67 on the U181 and STRs 65-67 on the E194. The proposed structure replacements were required to maintain the safety and reliability of the existing transmission system.

This work was completed under an existing Conditional Use Permit (CUP) which was granted on June 22, 2023 (LU-23-60). As part of the approved access to Structures 19 and 19 (E194 and U181), the CUP permitted 6,286 square feet (SF) of impacts to the adjacent wetland and 1,644 SF of impacts to the wetland buffer.

Following City approval and the issuance of the CUP, Eversource obtained landowner authorization from the Portsmouth Ford auto dealership to access the right-of-way (ROW) directly from Echo Avenue. As such, construction deviated from what was permitted by the CUP in this area, and both structures were accessed by a more direct route with no wetland impacts. This re-route resulted in a total elimination of the direct wetland impacts; however, impacts within the wetland buffer increased from the permitted 1,644 SF to an as-built total of 3,685 SF.

The following narrative describes existing conditions and the completed activities within jurisdictional areas. Project Mapping is provided in Appendix A, the Wetland Resource Area Description and Assessment Report that was in the original 2023 CUP application is included in Appendix B, and representative photographs of the project area are found in Appendix C.

Section 2 Existing Conditions

2.1 Project Site

The E194 and U181 transmission lines originate at the Newington Substation off Gosling Road in Newington and run southwest of the Piscataqua River. The lines then extend southeast, parallel with Route 4 before turning southwest again, parallel with Interstate 95. The lines continue southwest through Great Bog in Portsmouth before turning west and terminating at the Ocean Road Substation in Greenland. The topography is generally flat throughout the right-of-way (ROW) with slight depressions and hills located in the less developed reaches. The areas surrounding the ROW are mostly commercial, industrial, and residential, with some large portions of forested and wetland areas closer to the Greenland town line.

The proposed limit of work covered by this after-the-fact CUP is the constructed access route to Structures 19 and 19 (E194 and U181). This work area is located northeast of Echo Avenue, directly across from the Portsmouth Ford automotive dealership. Based on review of aerial imagery, access from Echo Avenue in this location has historically been used for routine ROW maintenance and vehicle storage from Portsmouth Ford. Representative site photographs are provided in Appendix C.

2.2 Jurisdictional Wetland Resource Areas

There are multiple wetland resource areas within this portion of the E194 and U181 ROW corridor. Jurisdictional wetland resource areas within the project area were identified and delineated on December 21, 2022, and January 4, 9, and 17, 2023 by Tighe & Bond wetland scientists, including a New Hampshire Certified Wetland Scientist. Refer to the Wetland Resource Area Description and Assessment Report that was included in the original 2023 CUP application provided in Appendix B for a detailed description of these areas.

2.2.1 Wetlands

Wetlands within the project area are characterized as a mixture of palustrine scrub-shrub (PSS) and palustrine emergent (PEM) systems. These wetlands are situated within disturbed areas in the ROW, surrounded by development. The original CUP permitted 6,286 SF of impacts to the adjacent southern wetland. The as-built conditions eliminated all direct impacts to wetlands.

2.2.2 100-foot Buffer Zone

The 100-foot Buffer Zone within the project area consists of the existing maintained ROW and impervious area (e.g., parking lots and roadways), with some upland areas in and adjacent to the ROW. The original CUP permitted 1,644 SF of impacts to the adjacent southern wetland buffer. The as-built conditions resulted in a net increase of impacts to the wetland buffer, up to 3,685 SF.

Section 3 Completed Activities

3.1 Structure Replacement and Maintenance

The structure replacements consisted of drilling holes up to four feet in diameter and the installation of a steel caisson into each hole approximately 15 to 20 feet (10% of structure height plus 2 feet) below the ground surface. The new poles were placed into the caissons and backfilled with clean, suitable materials. Spoils generated from the drilling operations were placed in appropriate upland areas at least 100 feet away from wetland areas and then stabilized.

Once the new poles were installed, old poles were then removed by cutting them below the ground surface. The old poles, cross-arms, wires, and accessory equipment were removed and disposed off-site. The pole butts associated with the existing poles were only removed if they impacted the structural integrity of the new poles.

3.2 Access

Access road improvements and development were needed to provide reliable access for the proposed work. As part of the approved access to Structures 19, the CUP permitted 6,286 SF of impacts to the adjacent southern wetland and 1,644 SF of impacts to the wetland buffer.

Following City approval and the issuance of the CUP, Eversource obtained landowner authorization from the Portsmouth Ford auto dealership to access the ROW directly from Echo Avenue. As such, Structures 19 were accessed by a more direct route. This route resulted in a total elimination of the direct wetland impacts; however, impacts within the wetland buffer increased from the permitted 1,644 SF to an as-built total of 3,685 SF.

Where permanent access through the buffer to Structures 19 is requested under this CUP, the existing boulder barricade will be replaced with a steel gate. This will prevent further encroachment within the buffer and limit use to future maintenance and emergency repairs within the ROW at Structures 19.

3.3 Work Pad Construction

The proposed project included the construction of 100-foot by 100-foot gravel work pads to provide level and stable surfaces needed to facilitate the structure installations. Work pads in upland areas were constructed using crushed stone, top-dressed with 1.5- to 3-inch diameter clean stone. 68 SF of wetland impact was permitted to construct suitable work pads at Structures 19, though during construction, wetland impacts were avoided altogether. Areas of soil disturbance around the work pads were stabilized with seed and straw mulch.

3.4 Construction Sequence

The work began in October of 2023 and was completed in June 2024. The following is a description of the general construction sequence. The actual sequence and schedule was determined by the selected contractor(s).

- Install sediment and erosion controls
- Upgrade access roads and build work pads, install construction mats where needed
- Conduct structure replacements
- Remove construction mats and stabilize/restore disturbed areas
- Stabilize exposed soils within the ROW
- Remove erosion and sedimentation controls following stabilization

Pending review and approval of the proposed activities, Eversource will replace the existing boulder barricade with a steel gate. Appropriate construction-period best management practices will be implemented to minimize potential impacts to the nearby wetland resource areas.

3.5 Protective Measures

Work was performed utilizing the latest *Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetlands and Waterbodies in New Hampshire* (NH DNCR 2019) to limit impacts to the environment. Perimeter protective measures consisting of silt fence, straw wattles, and/or straw bales were installed around the structure to minimize potential impacts to the nearby wetland resource areas. Water bars were also installed in areas of road improvements and in areas with steep slopes as identified by the contractor. Areas of disturbed soil were mulched with hay or straw following the completion of work. No equipment or material was stored within wetland resource areas. Erosion controls were implemented during construction, as noted on the project plans in Appendix A, to minimize any potential impacts during construction.

Section 4 Regulatory Compliance

4.1 City of Portsmouth Zoning Ordinance - Article 10

Work was completed in compliance with the requirements set forth in the City of Portsmouth Zoning Ordinance (Article 10, Environmental Protection Standards). The work complied with the criteria set forth in Article 10, Section 1017.60, Public and Private Utilities within Rights-of-Way in Wetlands and Wetland Buffers, discussed below.

(1) The proposed construction is in the public interest;

The construction was in the public interest, as these structure replacements are necessary to continue reliable transmission of public utilities.

(2) Design, construction, and maintenance methods will utilize best management practices to minimize any detrimental impact of such use upon the wetland and will include restoration of the site as nearly as possible to its original grade, condition, and vegetated state;

Eversource utilized Best Management Practices, as described in Section 3.5, during construction to mitigate impacts to wetland resource areas. Following construction, disturbed areas were restored to previously existing conditions, where feasible. Where access was constructed to Structures 19 through the buffer, Eversource proposes to retain this impact area after-the-fact, for future maintenance and emergency repairs, as shown on the attached Site Plans in Appendix A.

(3) No alternative feasible route exists which does not cross or alter a wetland or have less detrimental impact on a wetland; and

The work was designed in consideration of environmental impacts. The replacement activities were limited to the existing maintained ROW and limits of work were established to allow only for work necessary to complete the structure replacements. Access to the structures was primarily by utilizing existing access routes in previously disturbed areas to replace the existing infrastructure. Work associated with the replacement of Structures 19 resulted in no direct wetland impacts. The after-the-fact impact proposed by this CUP application was necessary to achieve a direct route to the replacement structures once landowner authorization was obtained, and resulted in 2,041 SF of additional impact to the buffer, beyond what was originally approved. Overall, the as-built condition resulted in the least overall impact on the wetland, as shown on the attached Site Plans in Appendix A.

(4) Alterations of natural vegetation of managed woodland will occur only to the extent necessary to achieve construction goals.

There was no proposed alteration of woodland vegetation, as all work was within the maintained extent of the ROW. As noted above, the limits of work were established to allow work only necessary to complete the structure replacements; where access was constructed to Structures 19 through the buffer, Eversource proposes to retain this impact area after-the-fact, for future maintenance and emergency repairs, as shown on the attached Site Plan in Appendix A.

4.1.1 Wetland Functions and Values Assessment

Pursuant to Article 10, Section 1017.22 of the City of Portsmouth Zoning Ordinance, a project that proposes the temporary or permanent alteration of greater than 1,000 square feet of wetland and greater than 250 square feet of wetland buffer requires a function and values assessment and wetland buffer description. A copy of the Wetland Resource Area Description and Assessment Report, including those for the Echo Avenue Wetlands, that was included in the original 2023 CUP application provided in Appendix B.

4.1.2 Wetland Buffer Impervious Surface Impacts

Impacts resulting from the construction of gravel access paths to work pads will not increase impervious surfaces within wetland buffers. A wetland buffer enhancement plan is not feasible due to the nature of the proposed work and the need to retain viable access for future maintenance within the ROW. Vegetation within the ROW is routinely maintained and access will be necessary for future utility maintenance.

4.2 State Permits

4.2.1 Alteration of Terrain

The overall project exceeded 100,000 square feet of earth moving activities and as such required an Alteration of Terrain (AoT) permit from the New Hampshire Department of Environmental Services (NHDES) AoT Bureau. This permit was obtained on July 29, 2023 (AoT-2427).

4.2.2 Utility Statutory Permit-by-Notification

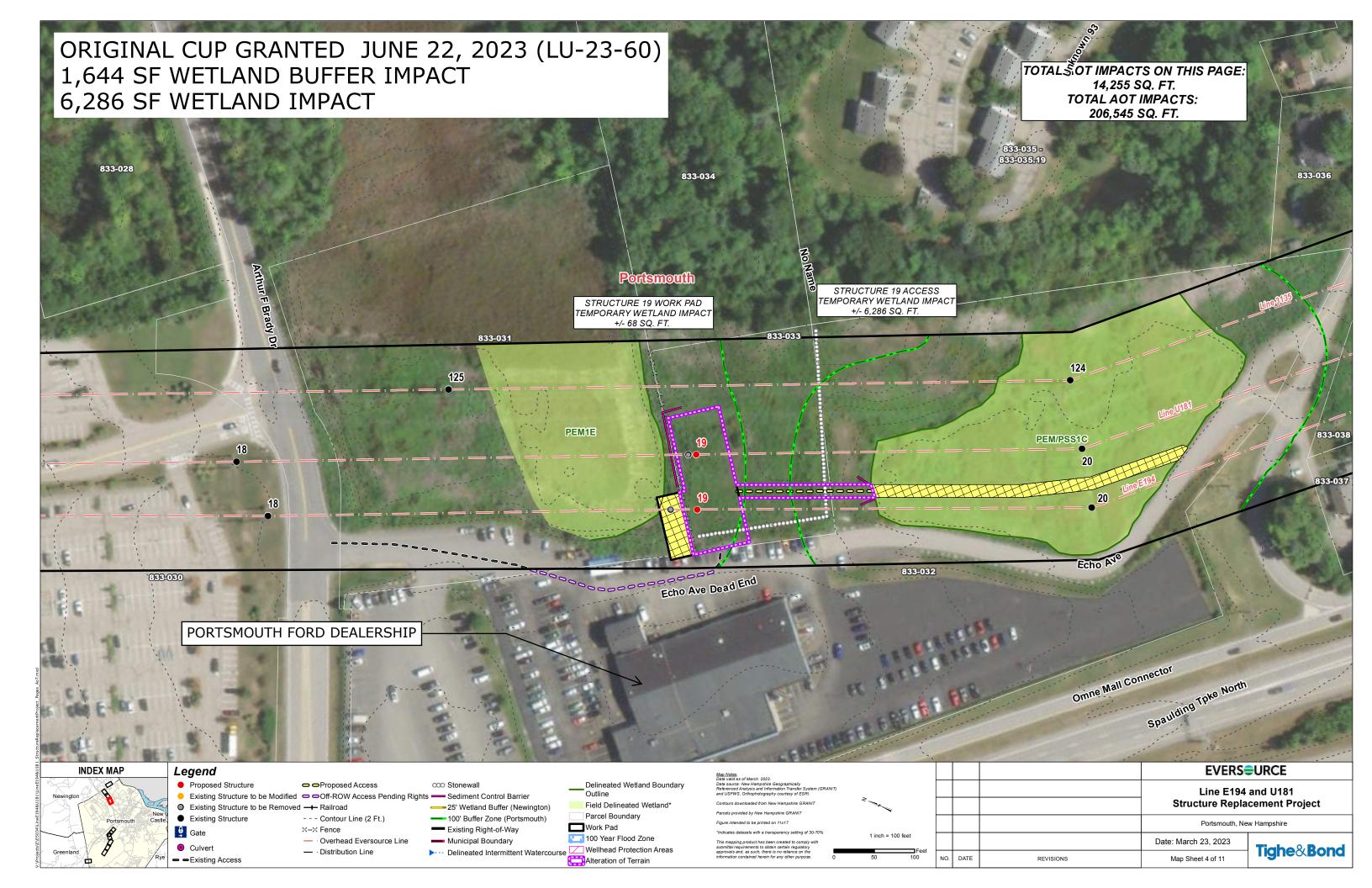
This project included direct impacts to wetlands and waters of the state, and thus required authorization under NH RSA § 482-A. Utility Statutory Permit-by-Notification applications were filed in September 2023 for each municipality where work was completed (NHDES file numbers 2022-03511 and 2022-03496).

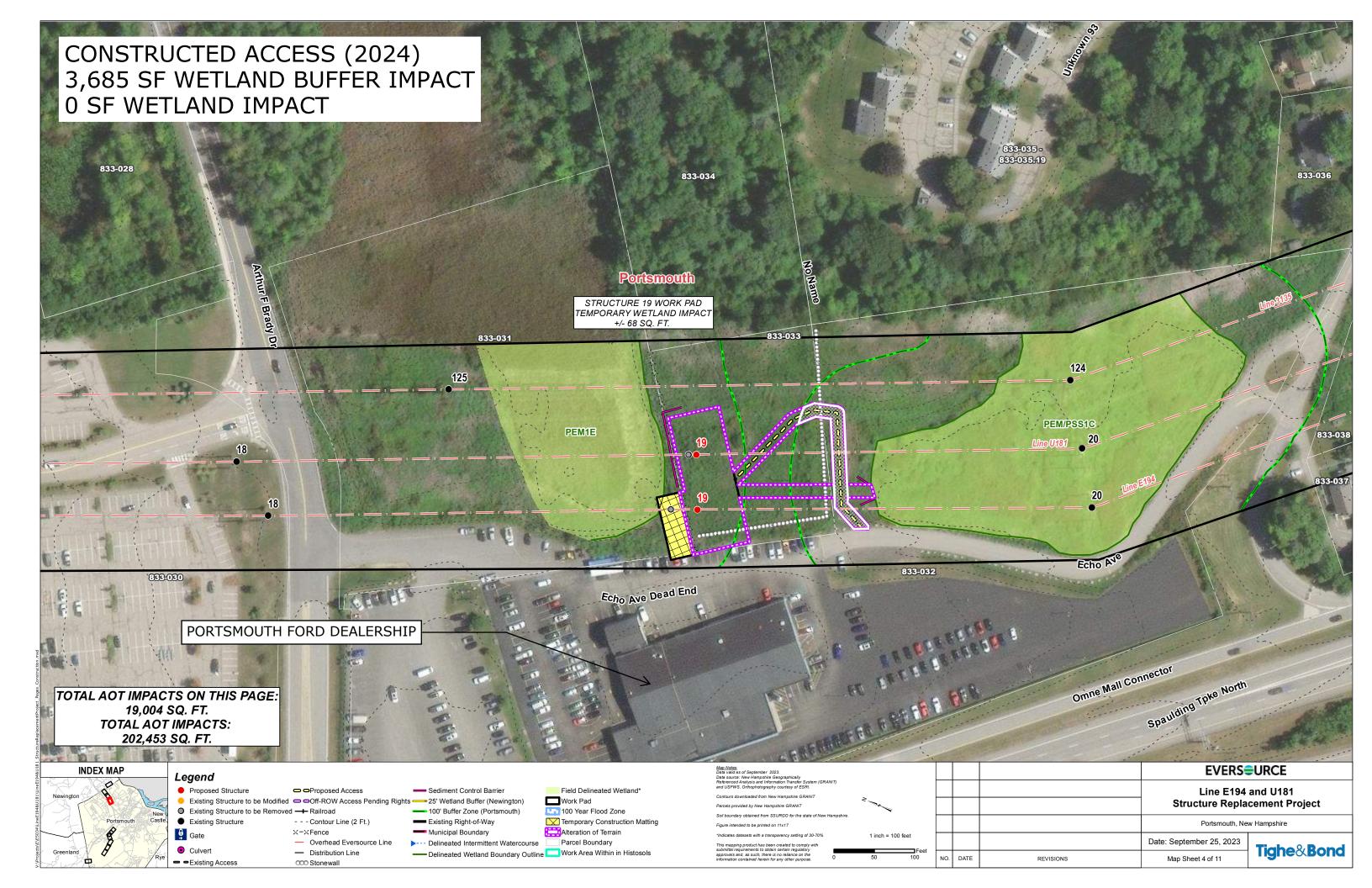
4.3 Federal Permits

4.3.1 EPA 2022 Construction General Permit

The total of work completed exceeded one acre of earth moving activities and required a Construction General Permit (CGP) from the U.S. Environmental Protection Agency (EPA). A Notice of Intent (NOI) and Stormwater Pollution Prevention Plan (SWPPP) was completed in September 2023, at least 14 days prior to the start of construction. The project was monitored by a SWPPP inspector throughout the duration of construction.

APPENDIX A





APPENDIX B

E194 & U181 Structure Replacement Project Wetland Resource Area Description and Assessment

To: Katy Wilkins, Project Manager, Tighe & Bond, Inc.

FROM: Julia Novotny, Environmental Scientist, Tighe & Bond, Inc.

Jeremy Degler, Project Environmental Scientist, CWS, PWS, CWB,

Tighe & Bond, Inc.

DATE: March 22, 2023

On December 21, 2022 and January 4, 9, and 17, 2023, Tighe & Bond wetland scientists conducted a wetland resource area investigation within and adjacent to the location of the E194 and U181 transmission line right-of-way (ROW) in support of a structure replacement project proposed by Eversource Energy (Eversource). This memorandum presents a summary of the wetland resource areas investigated at the Project Site and a functions and values assessment for these resource areas.

Project Location

The project area consists of the existing maintained transmission line ROW that contains the E194 and U181 Lines. This ROW is comprised of a mixture of impervious area, maintained upland, and wetland. The surrounding landscape areas are comprised of impervious surfaces (e.g., roadways and parking lots), industrial, commercial, and residential areas, in addition to forest and wetlands. The ROW runs from the Newington Substation off Gosling Road to the Ocean Road Substation on the Greenland/Portsmouth border.

Methodology of Wetland Resource Investigations

The wetland delineation was conducted in accordance with the procedures outlined in the *U.S. Army Corps of Engineers Wetlands Delineation Manual*, Technical Report Y-87-1 (January 1987), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (January 2012). Locations of wetland boundaries were surveyed using a global positioning system (GPS) unit with sub-meter accuracy.

Summary of Jurisdictional Wetland Resource Areas

The following sections discuss the wetland resource areas identified in the project area and summarize their characteristics.

Vegetated Wetlands

Multiple wetlands were identified within the E194 and U181 ROW, adjacent to the limits of work. Wetlands identified within the ROW were classified as having the characteristics of both palustrine emergent system with persistent vegetation, and a palustrine scrub-shrub system with broad-leaved deciduous vegetation (PEM1/PSS1).

Common vegetation observed included common reed (*Phragmites australis;* FACW), cattail (*Typha sp.; OBL*), purple loosestrife (*Lythrum salicaria;* OBL), sensitive fern (*Onoclea sensibilis;* FACW), curly dock (*Rumex crispus;* FAC), winterberry (*Ilex verticillata;* FACW), willow (*Salix spp.*), glossy buckthorn (*Frangula alnus;* FAC), red maple (*Acer rubrum;* FAC), common rush (*Juncus effusus;* OBL), reed canary grass (*Phalaris arundinacea;* FACW), white meadowsweet (*Spirea alba;* FACW), red osier dogwood (*Cornus sericea;* FACW), speckled

TECHNICAL MEMORANDUM Tighe&Bond

alder (*Alnus incana*; FACW), tussock sedge (*Carex stricta*; OBL), brambles (*Rubus spp.*), and goldenrod (*Solidago spp.*)

Two streams were identified in association with the delineated wetlands: an unnamed tributary to the Piscataqua River (Newington) and an unnamed tributary to Pickering Brook in Great Bog (Portsmouth). Many of the wetlands within the project area are disturbed from previous ROW work and surrounding development including from commercial, industrial, and residential areas.

100-foot Buffer Zone (Locally Regulated)

The 100-foot Buffer Zone associated with the wetlands identified in the project area consists of a mixture of impervious area (e.g., paved parking lots, roadways), residential, industrial, and commercial areas, as well as forested areas, and maintained ROW. The percentage of Buffer Zone that is developed, including impervious paved areas, is approximately 40 percent. Non-impervious 100-foot Buffer Zone is mainly comprised of maintained shrubby vegetation within the existing ROW and mixed deciduous and coniferous forest on the ROW boundaries.

Functions and Values Assessment

Gosling Road and Durgin Lane Wetlands

Wetlands off Gosling Road and Durgin Lane are surrounded by residential and commercial development. They are classified as palustrine emergent and scrub-shrub systems, mostly dominated by common reed, purple loosestrife, and cattail. These wetlands are situated in depressions and flat, low lying areas and are densely vegetated with pockets of standing water. Flood storage, sediment and toxicant retention, and nutrient retention/removal are likely functions of these wetlands. Due to the location of these wetlands in highly developed areas and the dominance of invasive species, they do not provide good aesthetic qualities and are unlikely to provide good wildlife habitat.

Echo Avenue Wetlands

Echo Avenue wetlands are characterized as palustrine emergent and palustrine scrub-shrub systems. These wetlands are located directly adjacent to commercial and residential development. They are also located approximately 330 feet northeast of Route 4. These wetlands are densely vegetated and some portions are situated in depressions. Functions associated with these areas include flood storage and sediment and toxicant retention. Due to the location of these wetlands in a developed area and the dominance of invasive species, they do not provide good aesthetic qualities and are unlikely to provide good wildlife habitat.

Borthwick Avenue Wetlands

The wetlands adjacent to Borthwick Avenue are situated in highly disturbed areas. These wetlands are mainly palustrine emergent systems dominated by common reed and cattail. These wetlands are designated as Prime Wetlands pursuant to NH RSA § 482-A:15.

Dense emergent vegetation and organic soils in these wetlands allow for sediment and toxicant retention. Given the proximity of these wetlands to surrounding development and impervious surfaces and their position on the landscape they are likely important in providing flood storage. These wetlands provide little aesthetic qualities as they are dominated by invasive species that obstruct clear views and are surrounded by impervious area and commercial development.

TECHNICAL MEMORANDUM Tighe&Bond

Great Bog Wetlands

The wetlands associated with Great Bog are predominantly palustrine emergent and palustrine scrub-shrub systems. These wetlands are associated with Pickering Brook, which flows northeast to southwest through Great Bog. These wetlands are designated as Prime Wetlands.

Due to the dense vegetation in this wetland and the presence of deep water and organic soils, it likely provides sediment and toxicant retention, as well as nutrient retention and transformation. Additionally, the large size of this wetland complex and its position on the landscape allows for flood storage. Great Bog has historic known occurrences of rare, threatened, and endangered plant species, and has aesthetic qualities and recreational opportunities via adjacent trails. This area likely provides good wildlife habitat as Great Bog is large and relatively unfragmented. The aesthetic quality is partially compromised by the dominance of invasive common reed and purple loosestrife, and the proximity of Great Bog to major roads and highways.

APPENDIX C

Photographic Log



Client: Eversource Energy Job Number: 14-5034-200

E194 & U181 Structure Replacement Project

Site: Portsmouth and Newington, NH

Photograph No.: 1 Date: 1/9/2023 Direction Taken: Northwest

Description: Overview of the originally permitted access to Structures 19 on the E194 and U181 Lines (indicated by the arrows). This would have resulted in 6,286 SF of impacts to the pictured wetland.



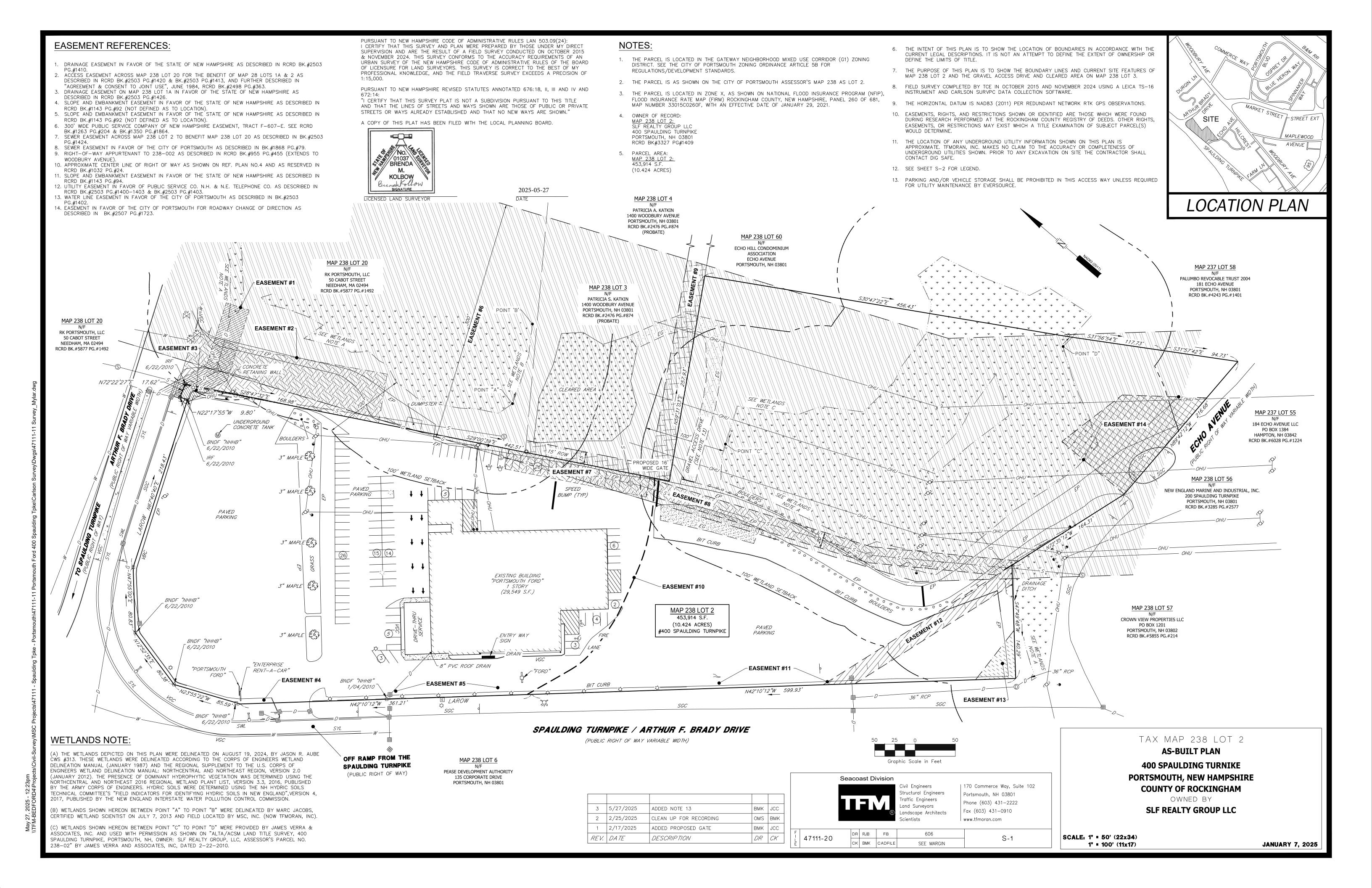
Photograph No.: 2 Date: 3/18/2024 Direction Taken: Northeast

Description: Overview of the as-built gravel access to Structures 19 on the E194 and U181 Lines (red arrow). No direct wetland impacts occurred during construction; rather, 3,685 SF of buffer impacts are requested to be retained under this after-the-fact CUP. A steel gate will be installed to replace the existing boulders.



Photographic Log 1

www.tighebond.com



PURSUANT TO NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES LAN 503.09(24):
I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY THOSE UNDER MY DIRECT SUPERVISION AND ARE THE RESULT OF A FIELD SURVEY CONDUCTED ON OCTOBER 2015 & NOVEMBER 2024. THIS SURVEY CONFORMS TO THE ACCURACY REQUIREMENTS OF AN URBAN SURVEY OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. THIS SURVEY IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, AND THE FIELD TRAVERSE SURVEY EXCEEDS A PRECISION OF PURSUANT TO NEW HAMPSHIRE REVISED STATUTES ANNOTATED 676:18, II, III AND IV AND 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." A COPY OF THIS PLAT HAS BEEN FILED WITH THE LOCAL PLANNING BOARD.

KOLBOW LICENSED LAND SURVEYOR

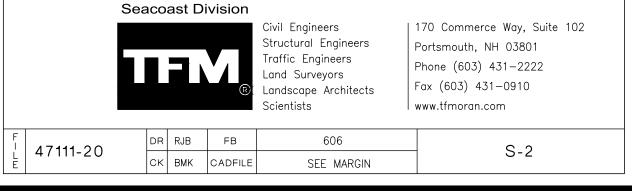
2025-05-27

LEGEND:	
MAP 137 LOT 11	ASSESSORS MAP/ LOT NUMBER
BK. PG. BIT	BOOK/PAGE BITUMINOUS CURB
BNDF EG EP	BOUND FOUND EDGE OF GRAVEL EDGE OF PAVEMENT
IRF LAROW	IRON ROD FOUND LIMITED ACCESS RIGHT OF WAY
PSNH N/F	PUBLIC SERVICE OF NEW HAMPSHIRE NOW OR FORMERLY
N/F NHHB PVC	NEW HAMPSHIRE HIGHWAY BOUND
TYP. RCP	POLYVINYL CHLORIDE TYPICAL REINFORCED CONCRETE PIPE
RCRD	ROCKINGHAM COUNTY REGISTRY OF DEEDS
S.F. SGC	SQUARE FEET SLOPED GRANITE CURB
SWL SYL	SINGLE WHITE LINE SINGLE YELLOW LINE
VBC VGC	VERTICAL BITUMINOUS CURB VERTICAL GRANITE CURB
© :	IRON PIPE/ROD FOUND BOUND FOUND
•	BOLLARD BOULDER
- •	GUY POLE
₽ P	LIGHT POLE UTILITY POLE
	ELECTRIC BOX LIGHT POLE WITH ARM
© =	DRAIN MANHOLE CATCH BASIN
Sec.	FLAG POLE DECIDUOUS TREE
() () () () () () () () () ()	MANHOLE
\\$\$\$\$ @ @ ~ \$\\ \\$\$\$\$\$\$	SEWER MANHOLE
ev ×	HANDICAP PARKING GAS VALVE
	HYDRANT
wv VS	WATER SHUT OFF WATER GATE VALVE
	SIGN
OHU	OVERHEAD UTILITIES CHAINLINK FENCE
	BOUNDARY LINE DRAIN LINE
S 	SEWER LINE GAS LINE
	WATER LINE EDGE OF WETLAND
	WETLAND SETBACK
	CONCRETE
	GRAVEL
F + + + +	
+ + + +	CLEARED AREA
+ + + +	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	WETLANDS
	CACCINENT //a
	EASEMENT #1
	EASEMENT #2
	"
	EASEMENT #3
	EASEMENT #6
	EASEMENT #7
	EASEMENT #8
	EACEMENT "C
	EASEMENT #9
	EASEMENT #12
	"

3	5/27/2025	NO REVISIONS THIS SHEET	вмк	JCC
2	2/25/2025	CLEAN UP FOR RECORDING	OMS	ВМК
1	2/17/2025	NO REVISIONS THIS SHEET	ВМК	JCC
REV.	DA TE	DESCRIPTION DESCRIPTION	DR	CK

EASEMENT #13

EASEMENT #14





1. SEE SHEET S-1 FOR AS-BUILT PLAN, NOTES AND LOCATION PLAN.

TAX MAP 238 LOT 2

AS-BUILT PLAN - LEGEND 400 SPAULDING TURNIKE PORTSMOUTH, NEW HAMPSHIRE **COUNTY OF ROCKINGHAM** OWNED BY

SLF REALTY GROUP LLC

SCALE: 1' = 50' (22x34) 1' = 100' (11x17)

JANUARY 7, 2025

 From:
 Mauser-Hoye, Rebecca

 To:
 Peter M. Stith

 Cc:
 Kimberli Kienia

 Subject:
 RE: 505 Route 1

Date: Thursday, June 12, 2025 2:51:47 PM

Attachments: <u>image001.png</u>

Peter,

Thank you for the follow up.

Please see this email as our request to postpone to the July Planning Board meeting. We are still at Conservation Commission review.

Thank you.

Rebecca A. Mauser-Hoye, PE, CEA

PROJECT MANAGER direct: 603-570-6308 cell: 603-986-8865



Weston & Sampson 150 Dow Street Tower 4, Suite 350 Manchester, NH 03101 tel: 978-532-1900 westonandsampson.com

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From: Peter M. Stith <pmstith@portsmouthnh.gov>

Sent: Thursday, June 12, 2025 8:49 AM

To: Mauser-Hoye, Rebecca <mauserr@wseinc.com> **Cc:** Kimberli Kienia <kkienia@portsmouthnh.gov>

Subject: 505 Route 1

Rebecca,

Don't worry about getting me the FOF or combined set at this point. What we need, and you can just email me, is a request to postpone to July and you can indicate you are still at Conservation Commission.

Thanks,

Peter Stith, AICP
Planning Manager
Planning & Sustainability Department
City of Portsmouth



K0076-065 April 23, 2025

Mr. Peter Britz, Director of Planning & Sustainability City of Portsmouth Planning & Sustainability Department 1 Junkins Avenue Portsmouth, New Hampshire 03801

Re: Request for Design Review Map 213 Lot 12 -Proposed Multi-Family Development

Dear Peter,

On behalf of Brora, LLC (owner) and The Kane Company (applicant) we are pleased to submit the following information to support a Request for Design Review with the Planning Board for the above-referenced project:

- One (1) full size & one (1) half size copy of the Site Plan Set, dated April 23, 2025;
- One (1) copy of the Planning Board Design Review Presentation Slides;
- One (1) copy of the Owner Authorization;

The proposed project is located on a parcel of land along Portsmouth Boulevard that is identified as Map 213 Lot 12 on the City of Portsmouth Tax Maps. The property is bound to the north by Portsmouth Boulevard, to the west by the Hilton Homewood Suites, to the south by residences on Osprey Drive and to the east by residences on Dunlin Way. The site is currently undeveloped. This property is an 8.4-acre parcel of land located in the Office Research District and the Gateway Neighborhood Overly District (GNOD). The northern portion of the parcel along Portsmouth Boulevard gently slopes up from north to south and then approximately one-third of the way into the parcel the topography changes to a steep slope that plateaus in the south corner of the site after grade change of approximately 50-feet in elevation.

The proposed project will be permitted under the recently adopted GNOD Overlay District regulations. As currently designed, the project will include three (3), six (6) story multifamily residential buildings consisting of approximately 274 dwelling units. With approval from the City Council, the Applicant will be proposing a Land Transfer to the City on separate property in order to achieve the Density Bonus offered by the Land Transfer Incentive Option (Section 10.686.30) and allow for six (6) story construction with up to 120 dwelling units per building.

The three (3) proposed buildings will be located along the frontage of Portsmouth Boulevard with associated parking located at the rear of buildings. Tenant amenity areas are anticipated to be provided on the first floor of the buildings with the primary amenities being centrally located in the middle building. The buildings will be connected by attractively landscaped and hardscaped outdoor amenity areas. The south portion of the site, where there is a significant change in grade, will remain undeveloped to provide a buffer between the proposed development and the existing residences along Osprey Drive. This south portion of the site is anticipated to be improved with walking paths and landscape features for outdoor recreation. The section of Portsmouth Boulevard along the frontage of the subject property is proposed to be reconstructed with a new sidewalk and parking spaces to promote connection between the development and the surrounding neighborhood.



The Applicant is seeking to meet with the Planning Board for Design Review. As such, the Applicant respectfully requests a vote from the Planning Board at the May 15, 2025 meeting to accept a request for Design Review such that a public hearing can be scheduled for the June 18, 2025 Planning Board meeting.

If you have any questions or need any additional information, please contact us by phone at (603) 433-8818 or by email at nahansen@tighebond.com.

Sincerely,

TIGHE & BOND, INC.

Patrick M. Crimmins, PE

Vice President

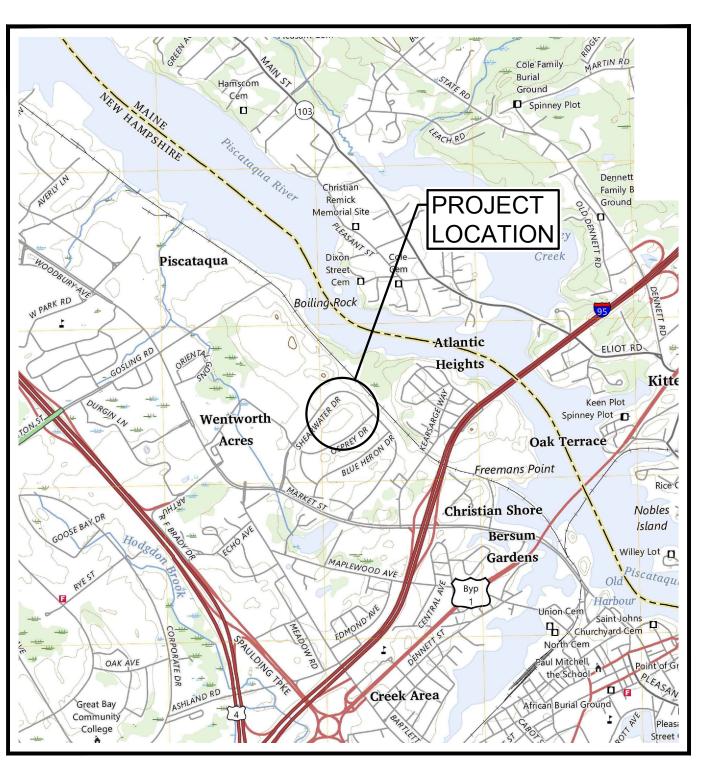
Neil A. Hansen, PE Project Manager

Copy: Brora, LLC (via email)

PROPOSED MULTI-FAMILY DEVELOPMENT

DUNLIN WAY & PORTSMOUTH BOULEVARD PORTSMOUTH, NEW HAMPSHIRE APRIL 23, 2025

SHEET NO.	SHEET TITLE	LAST REVISED
-	COVER SHEET	2025-04-23
1 OF 2	EXISTING CONDITIONS PLAN FOR DUNLIN WAY & PORTSMOUTH BOULEVARD	MARCH 2025
2 OF 2	EXISTING CONDITIONS PLAN FOR DUNLIN WAY & PORTSMOUTH BOULEVARD	MARCH 2025
C-101	GENERAL NOTES AND LEGEND	2025-04-23
C-201	DEMOLITION PLAN	2025-04-23
C-301	SITE PLAN	2025-04-23
C-401	GRADING AND DRAINAGE PLAN	2025-04-23
C-501	UTILITIES PLAN	2025-04-23
C-601	EROSION CONTROL NOTES AND DETAILS SHEET	2025-04-23
C-602	DETAILS SHEET	2025-04-23
C-603	DETAILS SHEET	2025-04-23
C-604	DETAILS SHEET	2025-04-23
C-605	DETAILS SHEET	2025-04-23
C-606	DETAILS SHEET	2025-04-23
C-607	DETAILS SHEET	2025-04-23



LOCATION MAP

CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL NOT RELY ON SCALED DIMENSIONS AND SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A REQUIRED DIMENSION IS NOT PROVIDED ON THE PLANS
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND FOR SITE CONDITIONS THROUGHOUT CONSTRUCTION. NEITHER THE PLANS NOR THE SEAL OF THE ENGINEER AFFIXED HEREON EXTEND TO OR INCLUDE SYSTEMS REQUIRED FOR THE SAFETY OF THE CONTRACTOR, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND IMPLEMENTING SAFETY PROCEDURES AND SYSTEMS AS REQUIRED BY THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ANY STATE OR LOCAL SAFETY REGULATIONS.
- 3. TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION OF TIGHE & BOND.

PREPARED BY:

177 CODDODATE DDIV

PORTSMOUTH, NEW HAMPSHIRE 03801 603-433-8818

OWNER/APPLICANT:

BRORA LLC

210 COMMERCE WAY, SUITE 300 PORTSMOUTH, NH 03801

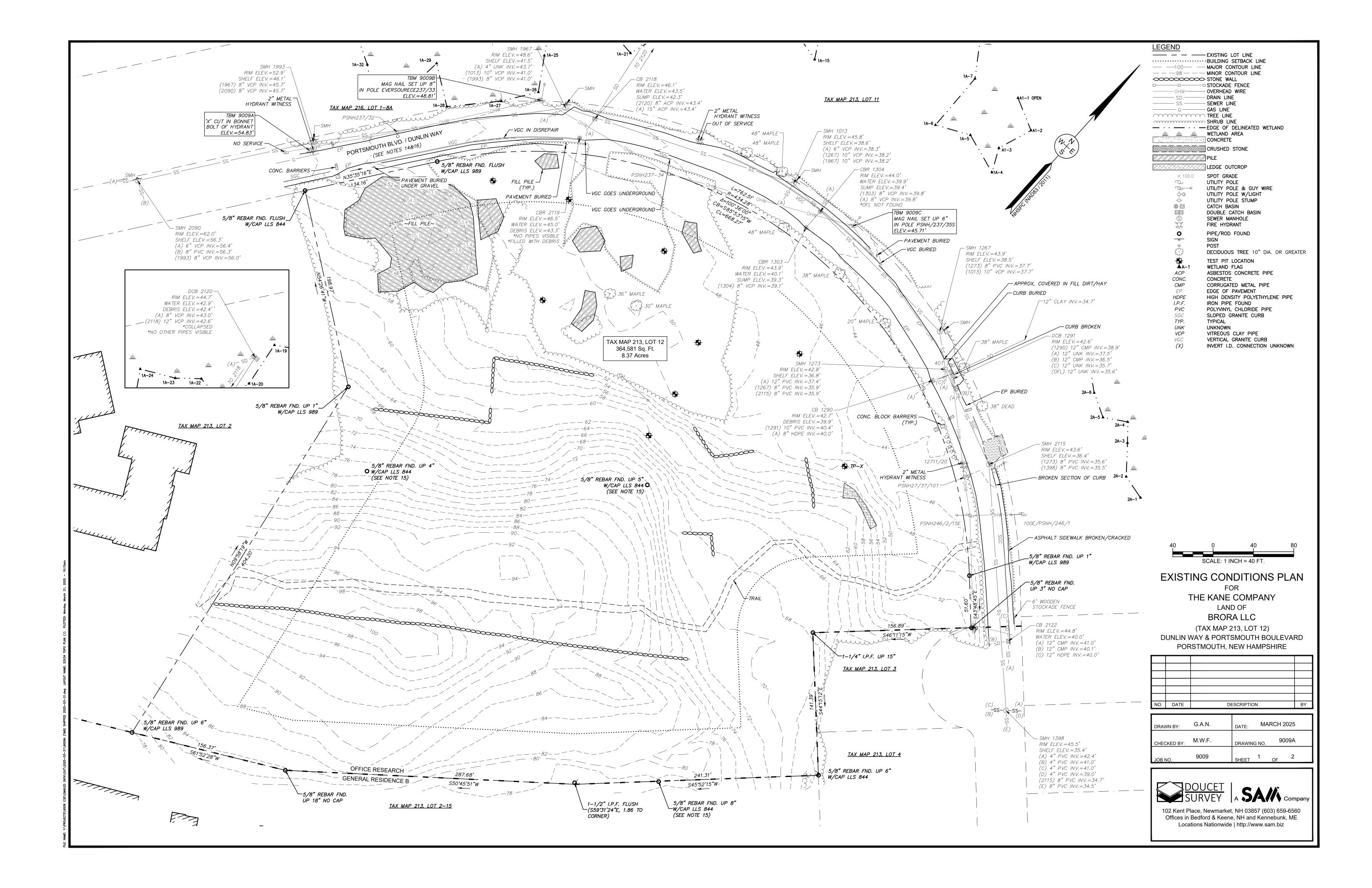
SURVEYOR:

DOUCET SURVEY, LLC.

102 KENT PLACE

NEWMARKET, NH 03857

DESIGN REVIEW PHASE SET COMPLETE SET (15) SHEETS



TAX MAP 213, LOT 12

DUNLIN WAY & PORTSMOUTH BOULEVARD PORTSMOUTH, NEW HAMPSHIRE 03801

D.S. PROJECT NO. 9009

2. TOTAL PARCEL AREA: 364,581 SQ. FT. OR 8.37 AC.

OWNER OF RECORD: BRORA LLC

210 COMMERCE WAY, SUITE 300 PORTSMOUTH, NH 03801 R.C.R.D. BOOK 3465, PAGE 462

4. ZONE: OR - DIMENSIONAL REQUIREMENTS:

MIN. FRONTAGE 300 ft. MIN. FRONT SETBACK MIN. SIDE SETBACK 75 ft. MIN. REAR SETBACK

MIN. BUILDING HEIGHT

ZONING INFORMATION LISTED HEREON IS BASED ON THE CITY OF PORTSMOUTH ZONING ORDINANCE AMENDED NOVEMBER 18, 2024 AS AVAILABLE ON THE CITY'S WEBSITE ON MARCH 25, 2025. ADDITIONAL REGULATIONS MAY APPLY, AND REFERENCE IS HEREBY MADE TO THE EFFECTIVE ZONING ORDINANCE. THE LAND OWNER IS RESPONSIBLE FOR VERIFYING AND COMPLYING WITH ALL APPLICABLE MUNICIPAL, STATE, AND FEDERAL REGULATIONS.

- 5. FIELD SURVEY PERFORMED BY J.P.E. & D.W.D. DURING FEBRUARY AND MARCH 2025 USING A TRIMBLE S6 TOTAL STATION AND A TRIMBLE R10 SURVEY GRADE GPS WITH A TRIMBLE TSC5 DATA COLLECTOR AND A TRIMBLE DINI DIGITAL LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE
- 6. HORIZONTAL DATUM BASED ON NAD83(2011) NEW HAMPSHIRE STATE PLANE COORDINATE ZONE (2800) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- 7. VERTICAL DATUM IS BASED ON APPROXIMATE NAVD88(GEOID18) (±.2') DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- 8. WETLANDS AND AREAS UNDER THE JURISDICTION OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, PURSUANT TO NH ADMINISTRATIVE RULES CHAPTER ENV-WT 100-900, WERE DELINEATED BY TIGHE & BOND ON MARCH 21, 2025 USING THE FOLLOWING METHODOLOGY
- a. REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS
- b.NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE. 2019 VERSION 4, FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND. NEW ENGLAND INTERSTATE WATER POLLUTION
- CONTROL COMMISSION, LOWELL, MA. c.U.S. ARMY CORPS OF ENGINEERS. (2023). 2022 NATIONAL WETLAND PLANT LIST, VERSION 3.6. U.S. ARMY ENGINEER RESEARCH AND DÉVELOPMENT CENTER, VICKSBURG, MS.
- d. NEW HAMPSHIRE ADMINISTRATIVE RULE CHAPTER ENV-WT 602.23, DEFINITIONS: HIGHEST OBSERVABLE TIDE LINE (HOTL) AND ENV-WT 406, DELINEATION AND CLASSIFICATION OF JURISDICTIONAL AREAS, EFFECTIVE DECEMBER 15, 2019.
- 9. FLOOD HAZARD ZONE:"X", PER FIRM MAP #33015C0259F, DATED 1/29/21.
- 10. 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 WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE
- 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. 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.
- 13. 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.
- 14. 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 DUNLIN WAY AS DEPICTED HEREON IS/ARE BASED ON RESEARCH CONDUCTED AT THE CITY OF PORTSMOUTH AND THE ROCKINGHAM COUNTY REGISTRY OF DEEDS. PORTSMOUTH BOULEVARD IS A 50 FOOT WIDE RIGHT OF WAY PER REFERENCE PLAN 7.
- 15. MONUMENT OF BOUNDARY LINE ABANDONED BY R.C.R.D. PLAN D-38784 (REF. PLANS 1).
- 16. AT TIME OF SURVEY PORTIONS OF PORTSMOUTH BOULEVARD ALONG THE SUBJECT PARCEL WAS OVERGROWN AND COVERED IN DEBRIS. THE LIMITS OF PAVEMENT AND SIDEWALK AS SHOWN IS BASED ON THE BEST AVAILABLE SURVEY LOCATIONS UNDER THE CURRENT STATE OF THE

REFERENCE PLANS:

- 1. "BOUNDARY LINE ADJUSTMENT PLAN, LAND OF DOAKS, LLC (TAX MAP 213, LOT 2) AND BRORA, LLC (TAX MAP 213, LOT 12), PORTSMOUTH, NEW HAMPSHIRE" BY DOUCET SURVEY, INC., DATED DECEMBER 31, 2014, R.C.R.D. PLAN D-38784.
- 2. "PRELIMINARY CONCEPT PLAN AT SCHILLER STATION, PORTSMOUTH, NEW HAMPSHIRE", BY PUBLIC SERVICE OF NEW HAMPSHIRE GENERAL ENGINEERING DIVISION, DATED 2/3/97.
- 3. "SUBDIVISION PLAN FOR BRORA, LLC", BY MILLETTE, SPRAGUE & COLWELL, INC., DATED AUGUST 27, 2003, R.C.R.D. PLAN #D-31583.
- 4. "SUBDIVISION/CONSOLIDATION PLAN MAP R-16/LOTS 1, 1-5 & 1-8B, MAP R-17/LOTS 2-1838 THRU 2-1844, MAP R-17/LOT 2-0300", BY CLD CONSULTING ENGINEERS, INC., DATED DEC. 1999
- 5. "RESUBDIVISION PLAN OSPREY LANDING", BY CLD CONSULTING ENGINEERS, INC., DATED FEB. 1999,
- 6. "LOT LINE RELOCATION PLAN OSPREY LANDING", BY CLD CONSULTING ENGINEERS, INC., DATED FEB. 1999, R.C.R.D. PLAN #D-27029.
- 7. "SUBDIVISION PLAN OF MARINERS VILLAGE & SPINNAKER POINT CONDOMINIUM", BY ASSOCIATED ENGINEERING SERVICES, DATED OCTOBER 23, 1993, R.C.R.D. PLAN #D-23202.

ABUTTERS INFORMATION: TAX MAP 213, LOT 2 NEP PORTSMOUTH OWNER LLC & COLONY CAPITAL 545 E JOHN CARPENTER FREEWAY SUITE 1400 IRVING, TX 75062 R.C.R.D. BOOK 5627, PAGE 702

TAX MAP 213, LOT 2-15 INISHMAAN ASSOC. LTD. PARTNERSHIP & JCM MANAGEMENT CO. 540 NORTH COMMERCIAL STREET MANCHESTER, NH 03101 R.C.R.D. BOOK 3078, PAGE 1947

TAX MAP 213, LOT 3 THOM GRAEME 1518 SUMMER AVE JUPITER, FL 33469 R.C.R.D. BOOK 3453, PAGE 2213

TAX MAP 213, LOT 4 DAVID S. ROGERS DECLARATION OF TRUST 15 DUNLIN WAY PORTSMOUTH, NH 03801 R.C.R.D. BOOK 5539, PAGE 146

TAX MAP 213, LOT 10 MUKHLIS & ALABDULLA FAMILY TRUST 20 DUNLIN WAY PORTSMOUTH, NH 03801 R.C.R.D. BOOK 6579, PAGE 466

TAX MAP 213, LOT 11 GSP SCHILLER, LLC 431 RIVER RD. BOW, NH 03304 R.C.R.D. BOOK 5887, PAGE 823

TAX MAP 216, LOT 1-8A BEACON HARBOR TRUST, LLC 210 COMMERCE WAY SUITE 300 PORTSMOUTH, NH 03801

R.C.R.D. BOOK 5877, PAGE 2905



LOCATION MAP (n.t.s.)

EXISTING CONDITIONS PLAN

THE KANE COMPANY LAND OF **BRORA LLC**

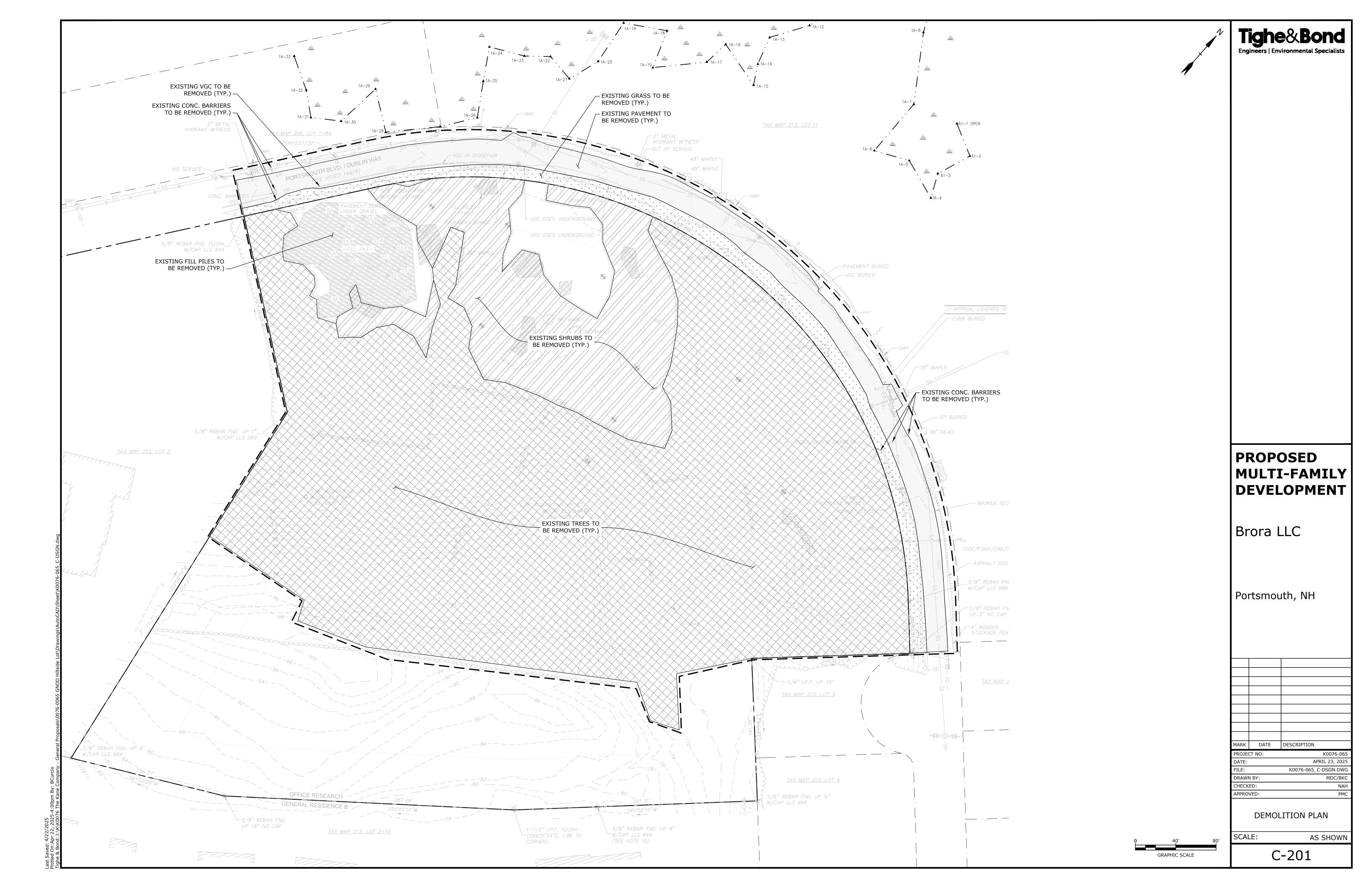
(TAX MAP 213, LOT 12) **DUNLIN WAY & PORTSMOUTH BOULEVARD** PORSTMOUTH, NEW HAMPSHIRE

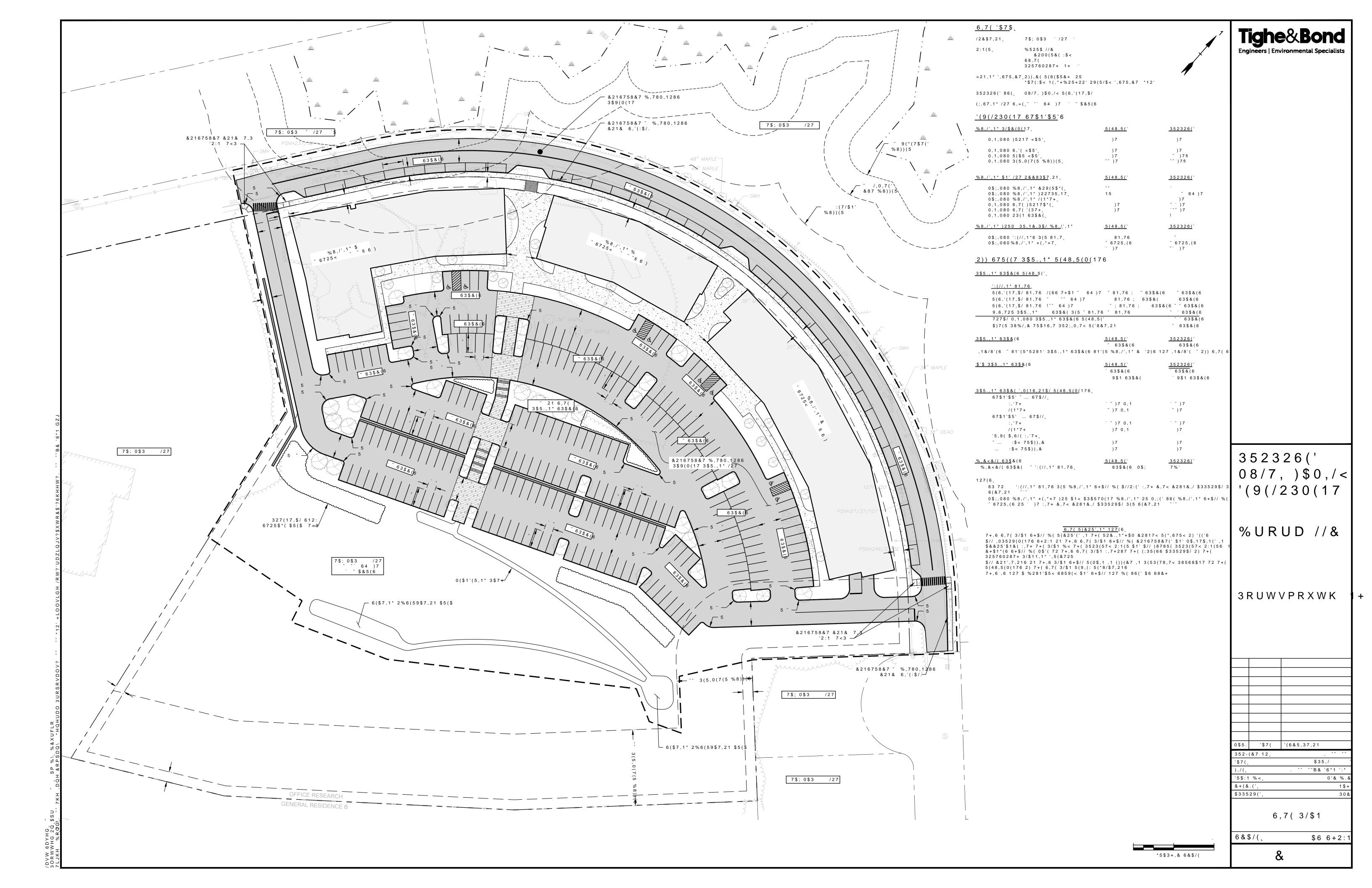
NO.	DATE	DESCRIPTION	BY

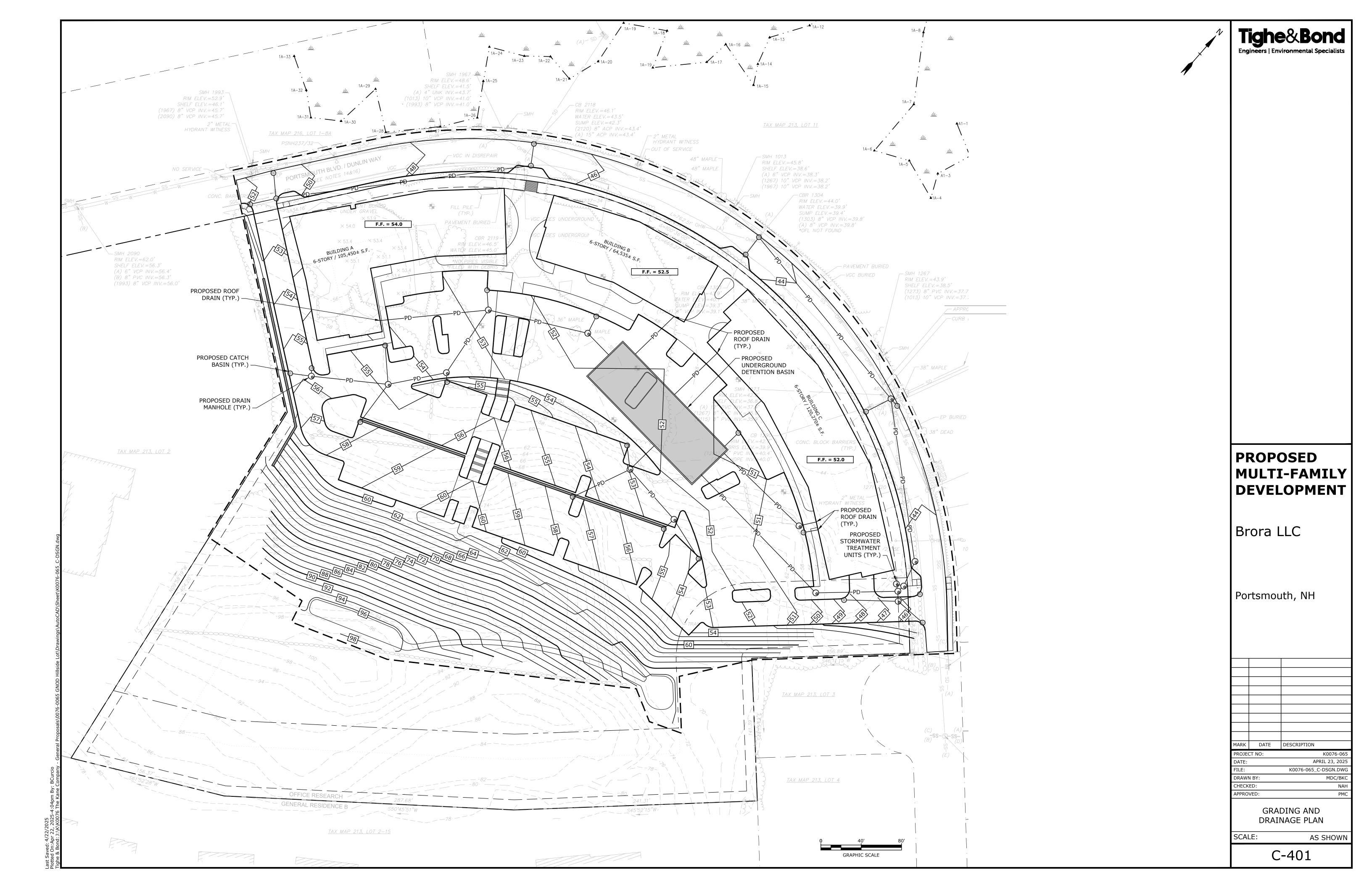
DRAWN BY:	G.A.N.	DATE: MARCH 2025
CHECKED BY:	M.W.F.	DRAWING NO. 9009A
JOB NO.	9009	SHEET 2 OF 2

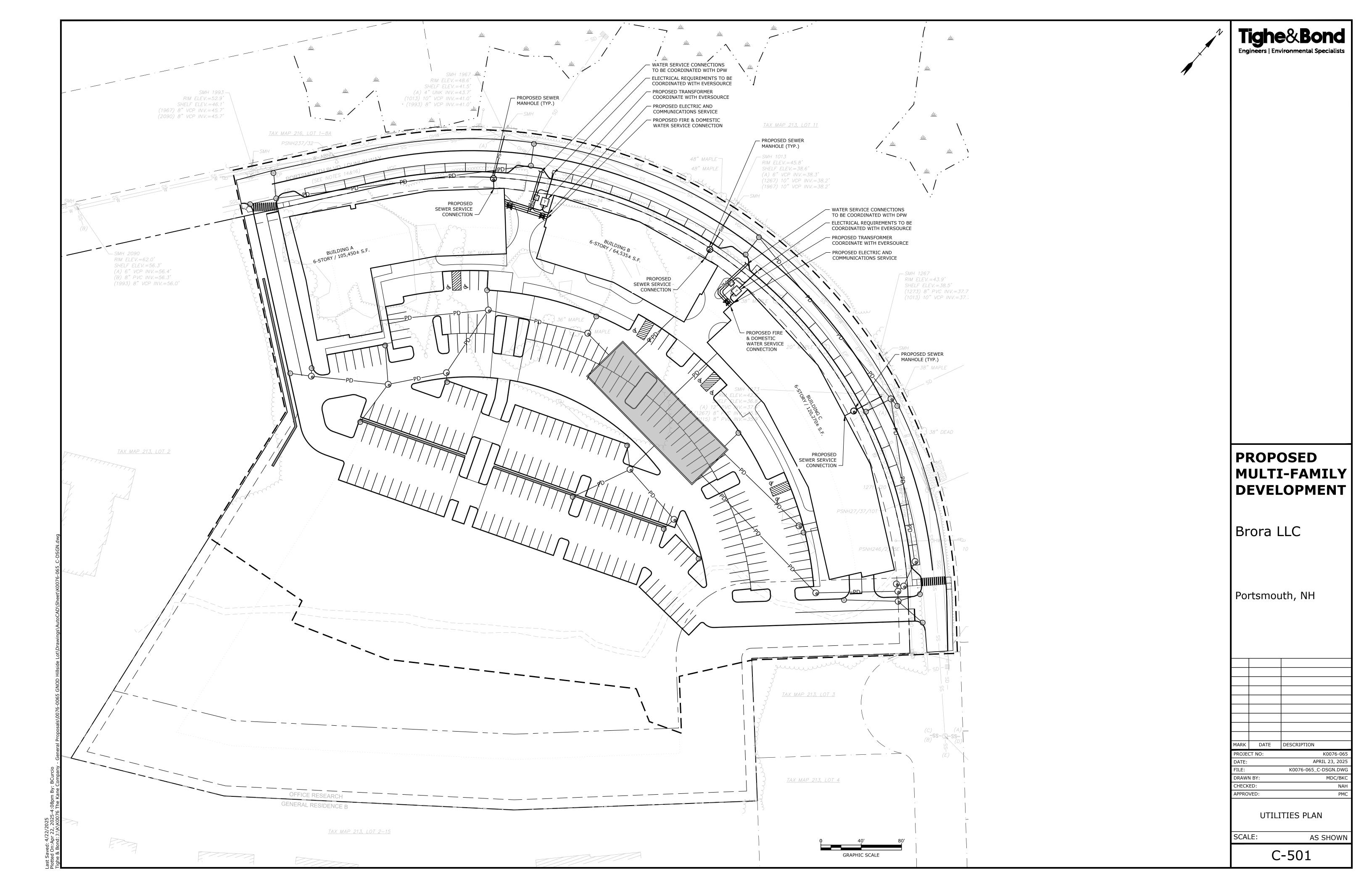


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PROJECT ADDRESS: DUNLIN WAY & PORTSMOUTH BOULEVARD

PORTSMOUTH, NH 03801

PROJECT LATITUDE: 43°-05'-29" N PROJECT LONGITUDE: 70°-46'-48" W

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES THREE 6-STORY MULTI-FAMILY BUILDINGS. THE PROJECT WILL ALSO CONSIST OF ASSOCIATED SITE IMPROVEMENTS SUCH AS PAVING, STORMWATER MANAGEMENT, UTILITIES AND LIGHTING.

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 6.8 ACRES.

SOIL CHARACTERISTICS

BASED ON THE SITE SPECIFIC SOIL SURVEY, THE SOILS ON SITE PRIMARILY CONSIST OF *** SOILS WITH A HYDROLOGIC SOIL GROUP RATING OF ***.

NAME OF RECEIVING WATERS

THE STORMWATER RUNOFF FROM THE SITE WILL BE DISCHARGED VIA A CLOSED DRAINAGE SYSTEM TO AN UNNAMED ON SITE WETLANDS WHICH ULTIMATELY FLOW TO THE PISCATAQUA

CONSTRUCTION SEQUENCE OF MAJOR ACTIVITIES:

- 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
- 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
- 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.
- SEDIMENT TRAPS AND/OR BASINS SHALL BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.
- FINISH PAVING ALL ROADWAYS AND PARKING LOTS.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.
- COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 13. 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 AREA OF DISTURBANCE SHALL NOT EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED UNLESS FURTHER APPROVAL IS RECEIVED FROM THE NEW HAMPSHIRE LAND RESOURCES MANAGEMENT BUREAU.
- 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.

- 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 BALES, SILT FENCES, MULCH BERMS, SILT SACKS AND SILT SOCKS AS SHOWN IN THESE DRAWINGS AS THE FIRST ORDER OF WORK.
- SILT SACK 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
- TEMPORARY WATER DIVERSION AND 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: A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
- B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN
- INSTALLED: D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.;
- IN AREAS TO BE PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE REOUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016.

ITEM 304.2 HAVE BEEN INSTALLED. WINTER STABILIZATION PRACTICES:

- A. 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 1.1. FIRE-FIGHTING ACTIVITIES; 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:
- A. TEMPORARY SEEDING;
- B. MULCHING.
- ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- 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 OCTOBER 15.

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.
- 2. 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.
- 3. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ABUTTING AREAS.

- LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS.
- 2. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE ONSET OF PRECIPITATION.
- 3. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO 1. 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.
- 4. 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.

- 1. TEMPORARY GRASS COVER: A. SEEDBED PREPARATION:
 - a. 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;
- a. UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE;
- b. 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; C. MAINTENANCE:
- a. 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: A. FOR PERMANENT MEASURES AND PLANTINGS:
 - a. 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;
 - b. 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;
 - c. 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;
 - d. 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 REOUIRED

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 g. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL
- ACCEPTED;
- h. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

20 LBS/ACRE

APPLICATION RATE CREEPING RED FESCUE 20 LBS/ACRE

- TALL FESCUE 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.
- 3. 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:

- A. THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT THEIR OWN PLANT OR DISPATCH FACILITY;
- B. IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO HANDLE ANTICIPATED WASHOUT WATER;
- DRAINS, SWALES AND SURFACE WATERS OR DELINEATED WETLANDS; D. INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE REMOVED.

C. CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEAST 150 FEET AWAY FROM STORM

ALLOWABLE NON-STORMWATER DISCHARGES:

- 1. THE FOLLOWING ARE THE ONLY NON-STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES ARE PROHIBITED ON SITE:
- 1.2. FIRE HYDRANT FLUSHING;
- 1.3. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED;
- 1.4. WATER USED TO CONTROL DUST; POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING;
- 1.6. ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED;
- 1.7. PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED;
- 1.8. UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION; 1.9. UNCONTAMINATED GROUND WATER OR SPRING WATER;
- 1.10. FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED;

- 1.11. UNCONTAMINATED EXCAVATION DEWATERING;
- 1.12. LANDSCAPE IRRIGATION.

WASTE DISPOSAL:

- 4. WASTE MATERIAL A. 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;
- B. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE; C. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
- 2. HAZARDOUS WASTE:
 - A. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER;
- B. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT. SANITARY WASTE:
- A. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

- 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
- 2. 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:
- A. GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION:
- a. ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON b. ALL REGULATED 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, ON AN IMPERVIOUS SURFACE; c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE
- FOLLOWED; d. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS;
- e. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER;
- f. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF g. THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE
- RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES. B. HAZARDOUS PRODUCTS - THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE
- RISKS ASSOCIATED WITH HAZARDOUS MATERIALS: a. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT
- b. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION;
- c. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL
- C. PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE:
- a. PETROLEUM PRODUCTS:

RESEALABLE;

i. ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE;

v. WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE

- ii. 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.
- iii. SECURE FUEL STORAGE AREAS AGAINST UNAUTHORIZED ENTRY; iv. INSPECT FUEL STORAGE AREAS WEEKLY;
- MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS;
- vi. COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS: vii. SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS,

OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.

- viii. THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE: (1) EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED
 - SUBSTANCES CLOSED AND SEALED;
 - (2) PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS; (3) HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN
 - (4) USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED
 - SUBSTANCES; (5) PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE
- ix. FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT SHALL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT, OR ITS
- SUCCESSOR DOCUMENT. HTTPS://WWW.DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF
- b. FERTILIZERS: FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS;
- ii. ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER;
- iii. 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.
- c. PAINTS:
- i. ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM;
- iii. EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

D. 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: a. 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; b. 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;
- c. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;
- d. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A

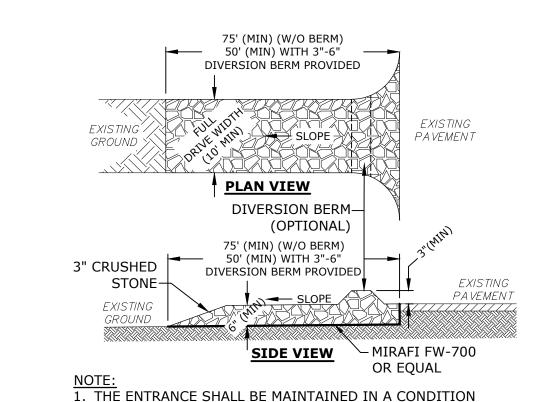
HAZARDOUS SUBSTANCE;

REPLACING SPENT FLUID.

- e. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED;
- f. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL
- BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. E. VEHICLE FUELING AND MAINTENANCE PRACTICE:
- a. CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPMENT/VEHICLE FUELING
- AND MAINTENANCE AT AN OFF-SITE FACILITY; b. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS
- CLEAN AND DRY;
- c. IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED; d. CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA;
- e. CONTRACTOR SHALL REGULARLY INSPECT VEHICLES FOR LEAKS AND DAMAGE; f. CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN

EROSION CONTROL OBSERVATIONS AND MAINTENANCE PRACTICES

A. THIS PROJECT EXCEEDS ONE (1) ACRE OF DISTURBANCE AND THUS REQUIRES A SWPPP.



STABILIZED CONSTRUCTION EXIT

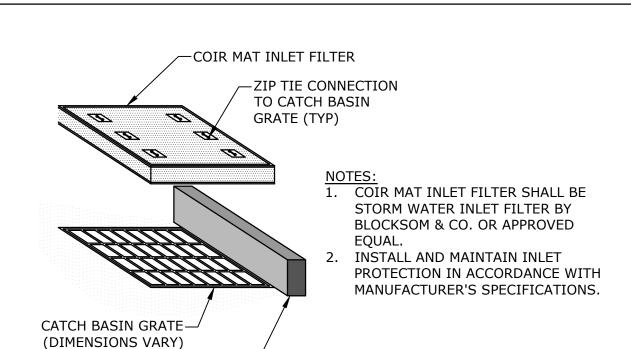
WHICH WILL PREVENT TRACKING OF SEDIMENT FROM THE

SITE. WHEN WASHING IS REQUIRED, IT SHALL BE DONE SO

RUNOFF DRAINS INTO AN APPROVED SEDIMENT TRAPPING

DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM

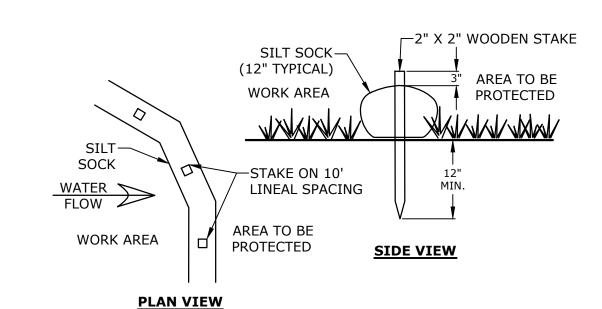
ENTERING STORM DRAINS, DITCHES, OR WATERWAYS



PROPOSED MULTI-FAMILY DEVELOPMENT

INLET PROTECTION BARRIER

CURB-



SILT SOCK SHALL BE SILT SOXX BY FILTREXX OR APPROVED EQUAL. INSTALL SILT SOCK IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

> SILT SOCK NO SCALE

Brora LLC

Portsmouth, NH

MARK DATE DESCRIPTION PROJECT NO: K0076-065 APRIL 23, 2025 K0076-065_C-DTLS.DWG DRAWN BY MDC/BKC CHECKED:

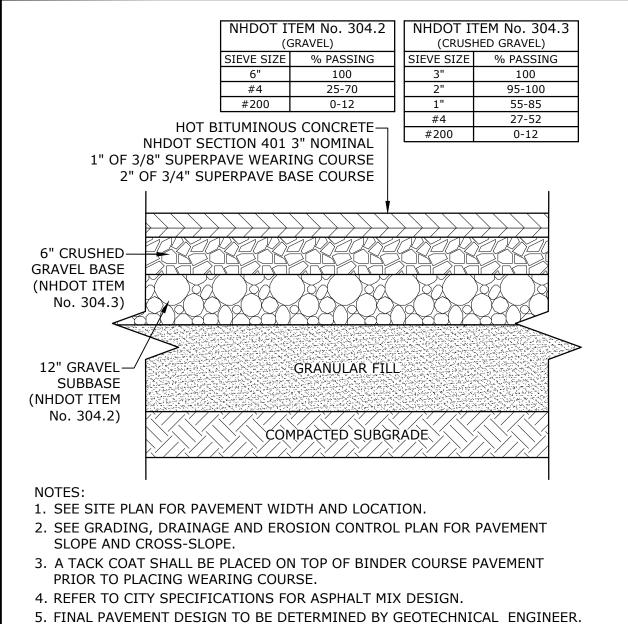
> **EROSION CONTROL** NOTES AND DETAILS

APPROVED:

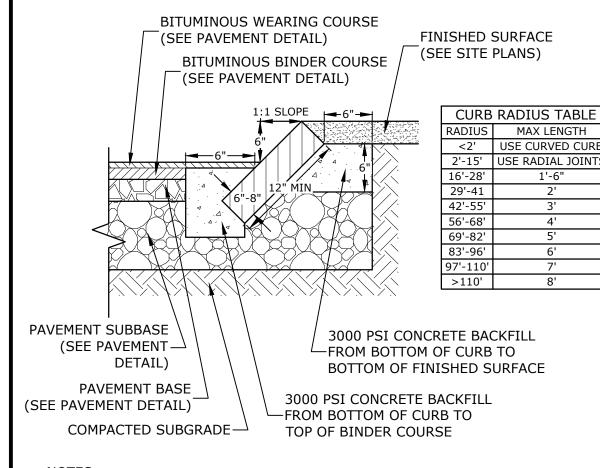
SCALE:

C-601

AS SHOWN

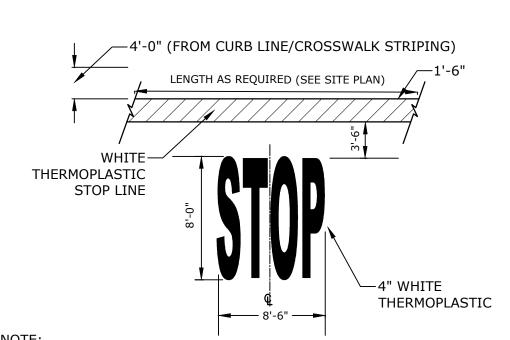


ON-SITE PAVEMENT SECTION NO SCALE



- SEE SITE PLAN(S) FOR LIMITS OF SLOPED GRANITE CURB (SGC).
- 2. ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH. 3. MINIMUM LENGTH OF STRAIGHT CURB STONES = 18"
- 4. MAXIMUM LENGTH OF STRAIGHT CURB STONES = 8'
- 5. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES (SEE TABLE).
- 6. JOINTS BETWEEN STONES SHALL HAVE A MAXIMUM SPACING OF 1/2" AND SHALL BE

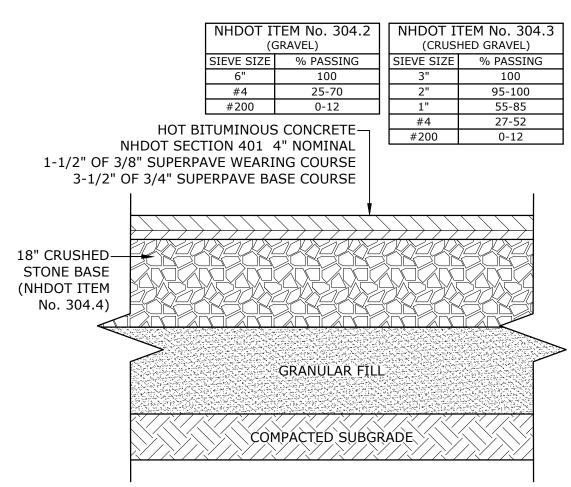
SLOPED GRANITE CURB NO SCALE



- PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS AS SHOWN ON SITE
- 2. STRIPING SHALL BE CONSTRUCTED USING WHITE THERMO PLASTIC, REFLECTERIZED PAVEMENT MARKING MATERIAL MEETING THE REQUIREMENTS OF ASTM D 4505

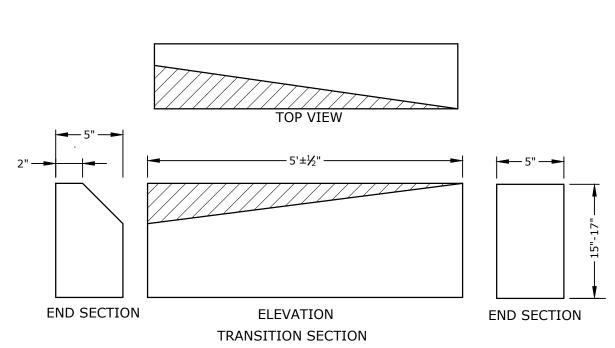
STOP BAR AND LEGEND

NO SCALE



- 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.

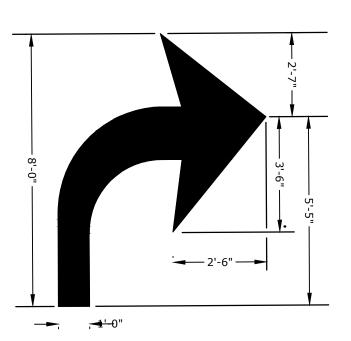
CITY RIGHT-OF-WAY PAVEMENT SECTION



MOUNTABLE VERTICAL GRANITE CURB TO VERTICAL GRANITE CURB

1. THE INTENT OF THIS ITEM IS TO PROVIDE A SMOOTH TRANSITION BETWEEN VERTICAL GRANITE CURB AND MOUNTABLE VERTICAL GRANITE CURB WITHOUT REQUIRING FIELD CHIPPING DURING INSTALLATION. THE MOUNTABLE VERTICAL GRANITE CURB MAY REQUIRE ADJUSTMENTS TO MEET THE TRANSITION PIECE HEIGHT. TRANSITION SLOPE CURB TO STANDARD REVEAL AS QUICKLY AS POSSIBLE TO PROVIDE FOR THIS SMOOTH TRANSITION.

CURB TRANSITION NO SCALE

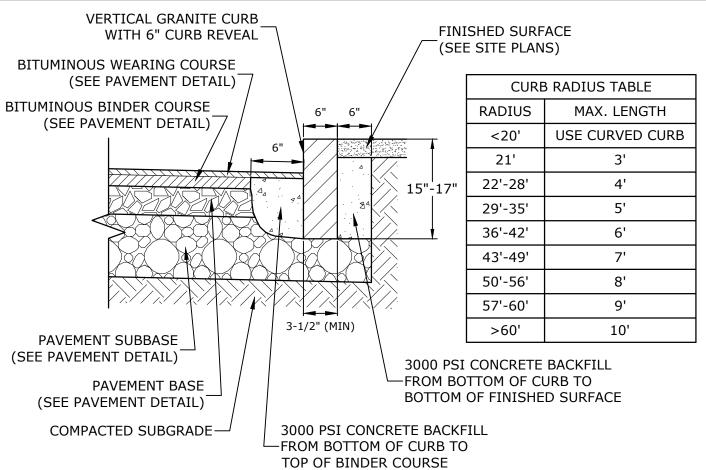


TURN ARROW (LEFT TURN OPPOSITE IN KIND)

- 1. SYMBOLS SHALL BE RETROREFLECTIVE WHITE AND SHALL CONFORM TO THE LATEST VERSION OF THE
- 2. PREFORMED WORDS AND SYMBOLS SHALL BE
- PRE-CUT BY THE MANUFACTURER. 3. ALL STOP BARS, WORDS, SYMBOLS AND ARROW SHALL BE THERMOPLASTIC.

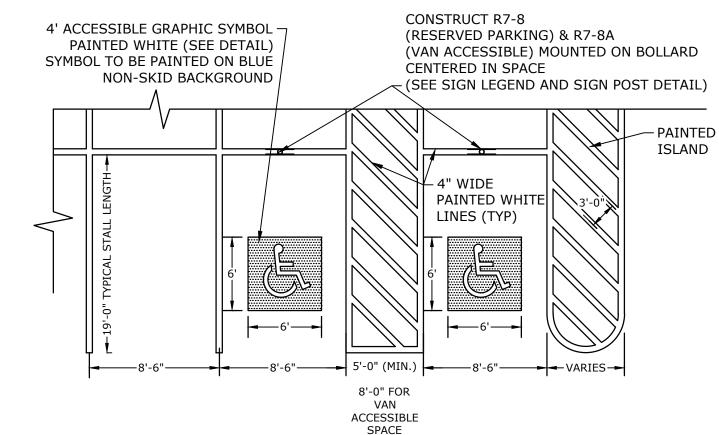
TURN ARROW NO SCALE

NO SCALE



- 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.

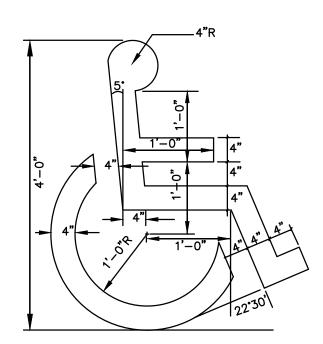
VERTICAL GRANITE CURB NO SCALE



- 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
- AMERICANS WITH DISABILITIES ACT AND LOCAL AND STATE REQUIREMENTS. 3. FINISH PAVEMENT GRADES AT ALL HANDICAP ACCESSIBLE STALLS AND PAINTED

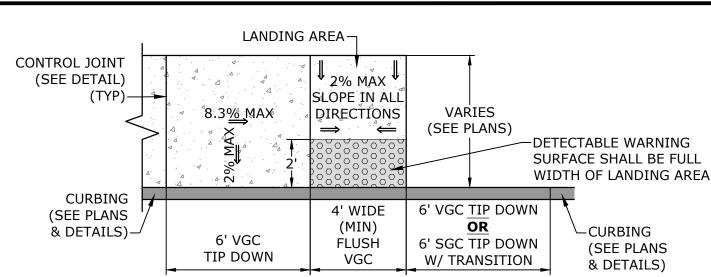
ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.

PARKING STALL/PAINTED ISLAND STRIPING NO SCALE

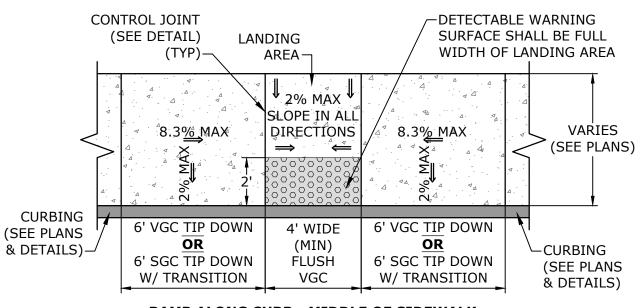


- I. SYMBOL SHALL BE CONSTRUCTED IN ALL ACCESSIBLE SPACES USING WHITE THERMOPLASTIC, REFLECTORIZED PAVEMENT PARKING MATERAL
- MEETING THE REQUIREMENTS OF ASTM D 4505 2. SYMBOL SHALL BE CONSTRUCTED TO THE LATEST ADA, STATE AND LOCAL REQUIREMENTS.

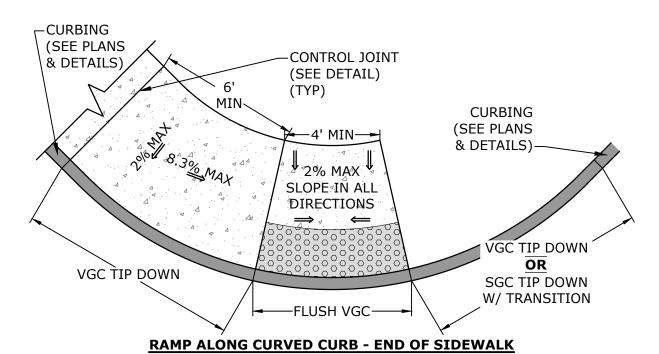
ACCESSIBLE SYMBOL



RAMP ALONG CURB - END OF SIDEWALK



RAMP ALONG CURB - MIDDLE OF SIDEWALK



-CONTROL JOINT

(SEE DETAIL)

2% MAX

SLOPE IN ALL

DIRECTIONS

FLUSH VGC → FL

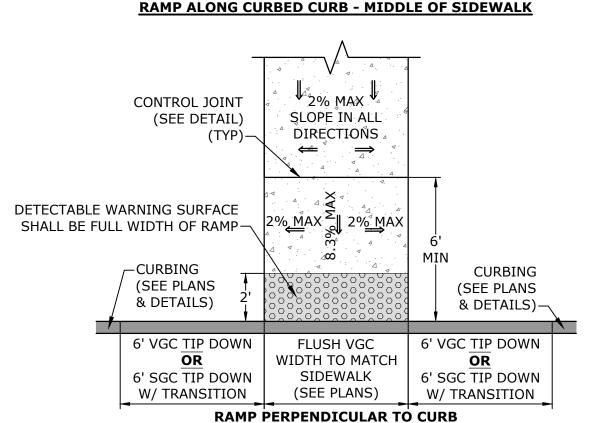
PROPOSED MULTI-FAMILY

CURBING

(SEE PLANS

VGC TIP DOWN

& DETAILS)-



-CURBING

(SEE PLANS

& DETAILS)

VGC TIP DOWN

- 1. RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT, 2010
- ADA STANDARDS FOR ACCESSIBLE DESIGN, AND ALL STATE AND LOCAL REQUIREMENTS.
- 2. SEE CONCRETE SIDEWALK DETAIL(S) FOR CONCRETE AND BASE MATERIAL REQUIREMENTS.
- 3. DETECTABLE WARNING SURFACES: • DETECTABLE WARNING SURFACES WITHIN THE RIGHT OF WAY SHALL BE ADA SOLUTIONS - IRON DOME AND IRON DOME SECURE FLANGE, CAST IRON PLANTS WITH A BLACK PAINTED FINISH, OR EQUAL.
- DETECTABLE WARNING SURFACE PANELS, COLOR: FEDERAL YELLOW, OR EQUAL 4. DETECTABLE WARNING SURFACES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

• DETECTABLE WARNING SURFACES WITHIN THE SITE SHALL BE ADA SOLUTIONS - CAST-IN-PLACE

CONCRETE TIP DOWN RAMP WITH DETECTABLE WARNING SURFACE NO SCALE

DEVELOPMENT

Brora LLC

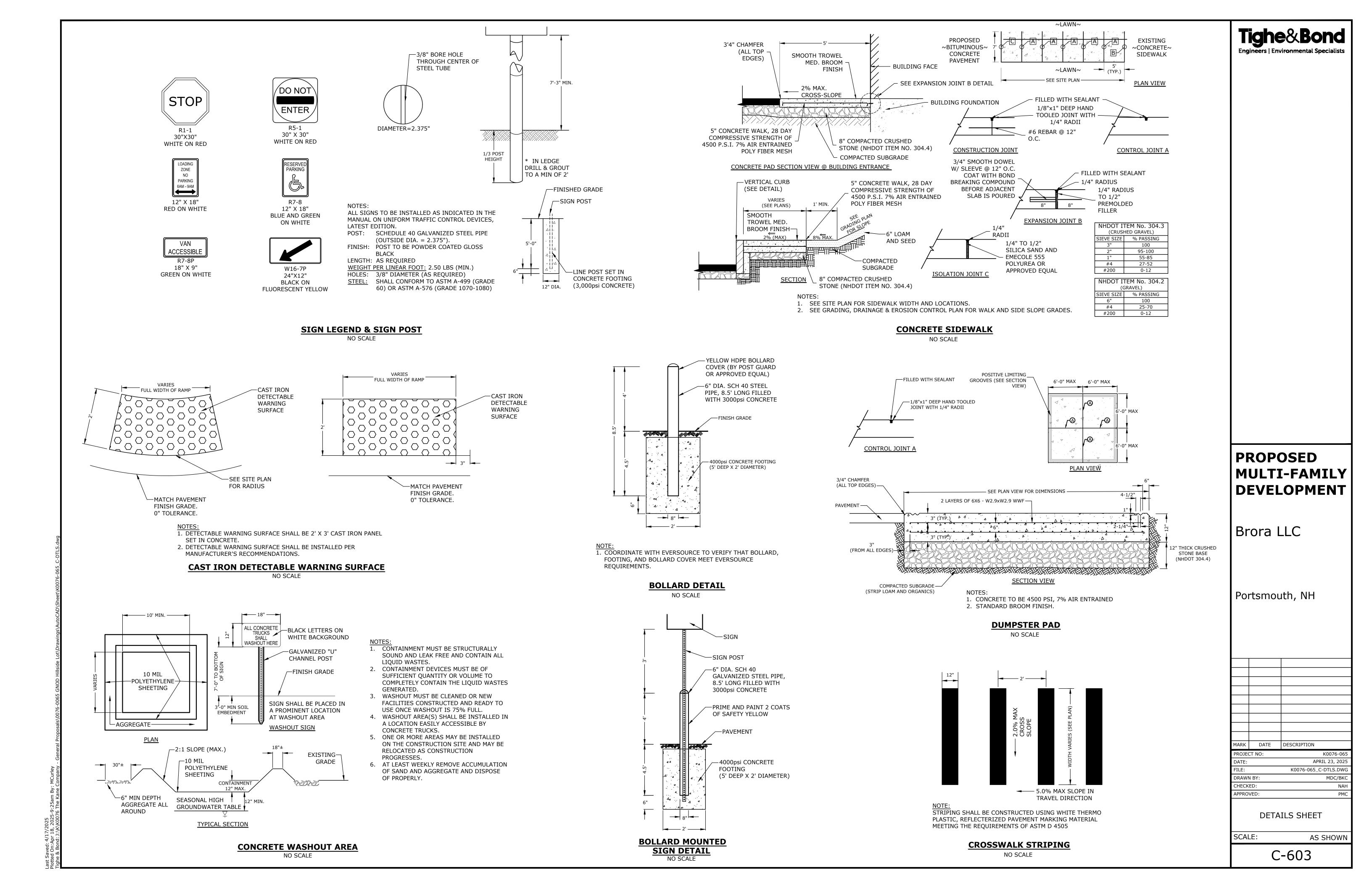
Portsmouth, NH

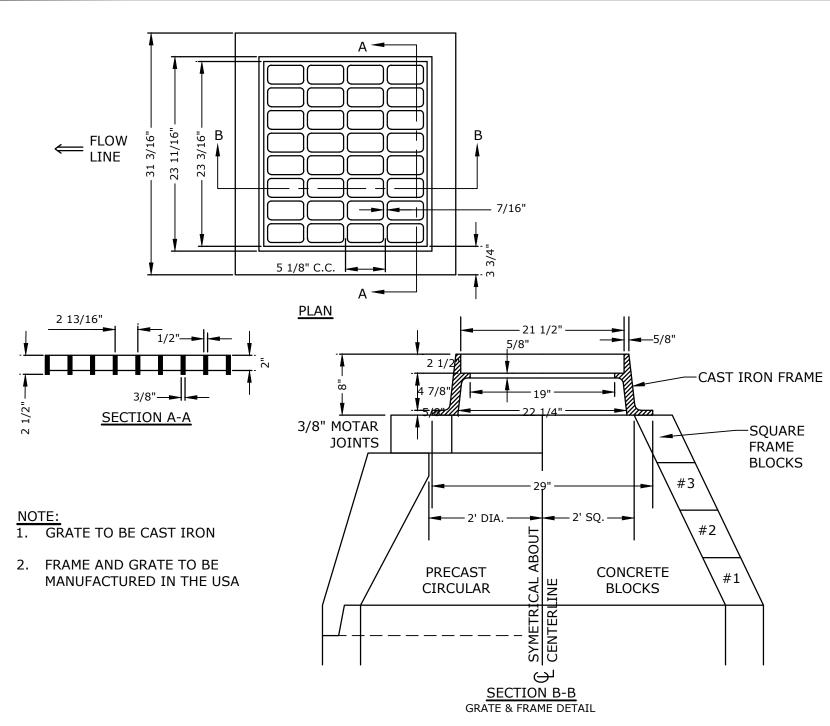
MARK	DATE	DESCRIPTION			
PROJE	CT NO:	K0076-065			
DATE:		APRIL 23, 2025			
FILE:		K0076-065_C-DTLS.DWG			
DRAWN BY: MDC/BKC					
CHECK	ED:	NAH			
APPRO	VED:	PMC			

DETAILS SHEET

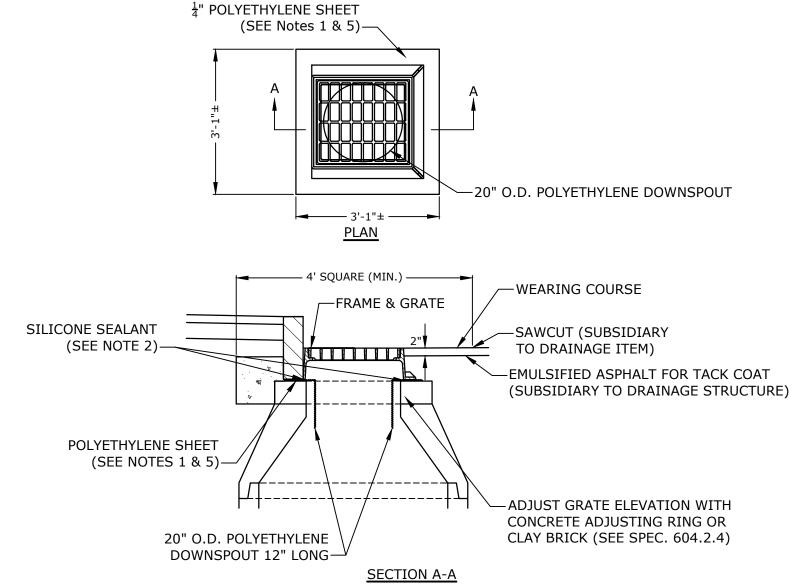
SCALE: AS SHOWN

C-602





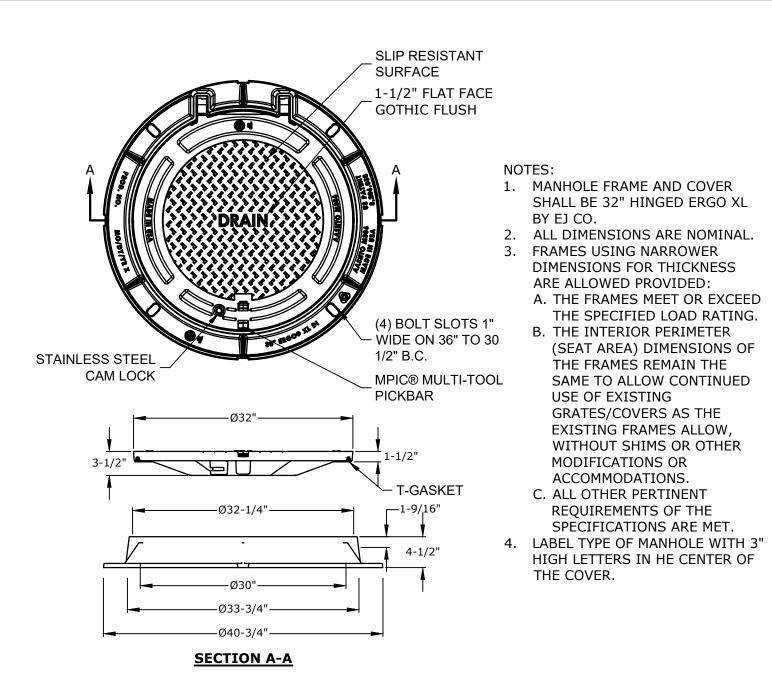




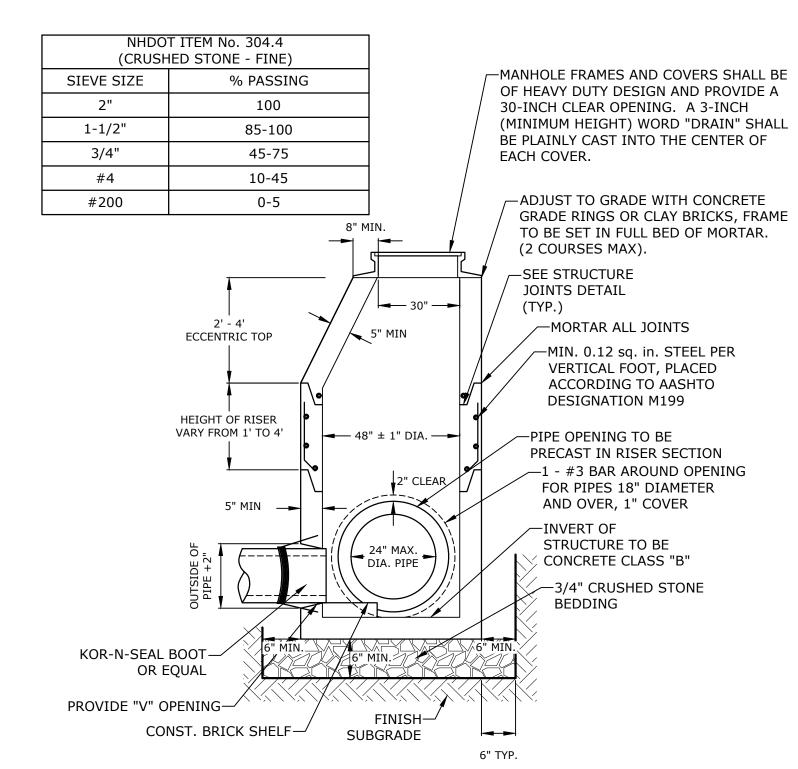
- 1. POLYETHYLENE LINER (ITEM 604.0007) SHALL BE FABRICATED AT THE SHOP. DOWNSPOUT SHALL BE EXTRUSION FILLET WELDED TO THE POLYETHYLENE SHEET.
- 2. PLACE A CONTINUOUS BEAD OF AN APPROVED SILICONE SEALANT (SUBSIDIARY TO ITEM 604.0007) BETWEEN
- FRAME AND POLYETHYLENE SHEET. 3. PLACE CLASS AA CONCRETE TO 2" BELOW THE TOP OF THE GRATE ELEVATION (SUBSIDIARY TO DRAINAGE
- STRUCTURE). 4. USE ON DRAINAGE STRUCTURES 4' MIN. DIAMETER ONLY.
- 5. TRIM POLYETHYLENE SHEET A MAXIMUM OF 4" OUTSIDE THE FLANGE ON THE FRAME FOR THE CATCH BASIN
- BEFORE PLACING CONCRETE (EXCEPT AS SHOWN WHEN USED WITH 3-FLANGE FRAME AND CURB). 6. THE CENTER OF THE GRATE & FRAME MAY BE SHIFTED A MAXIMUM OF 6" FROM THE CENTER OF THE DOWNSPOUT
- IN ANY DIRECTION. 7. PLACED ONLY IN DRAINAGE STRUCTURES IN PAVEMENT.
- 8. SEE NHDOT DR-04, "DI-DB, UNDERDRAIN FLUSHING BASIN AND POLYETHYLENE LINER DETAILS", FOR
- ADDITIONAL INFORMATION.
- 9. CATCHBASINS WITHIN CITY RIGHT OF WAY SHALL HAVE A POLYETHYLENE LINER

POLYETHYLENE LINER

NO SCALE



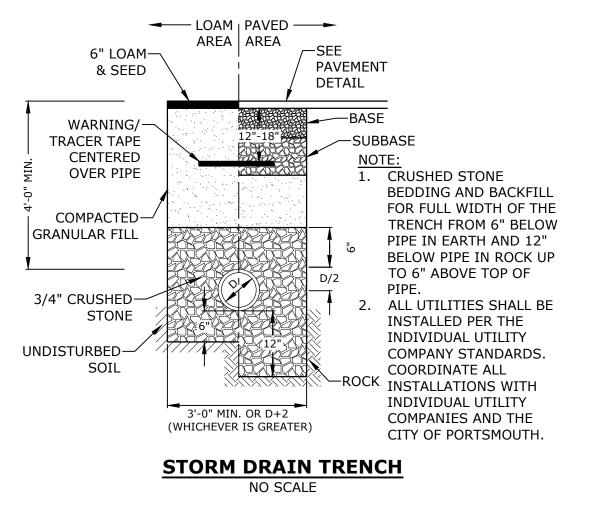
DRAIN MANHOLE FRAME & COVER



- 1. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE.
- 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.
- 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 H20 LOADING.
- CONSTRUCT CRUSHED STONE BEDDING AND BACKFILL UNDER (6" MINIMUM THICKNESS)
- THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING
- OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE
- 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 HORIZNTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.

4' DIAMETER DRAIN MANHOLE

NO SCALE



PROPOSED MULTI-FAMILY DEVELOPMENT

Brora LLC

Portsmouth, NH

MARK	DATE	DESCRIPTION
PROJE	CT NO:	K0076-065
DATE:		APRIL 23, 2025
FILE:		K0076-065_C-DTLS.DWG
DRAWI	N BY:	MDC/BKC
CHECK	ED:	NAH

DETAILS SHEET

SCALE: AS SHOWN

PPROVED:

C-604

TOP OF GRATE--POLYETHYLENE LINER (SEE SECTION B-B SEE NOTE-DETAIL) NO. 6 **FLAT SLAB TOP** SEE NOTE POLYETHYLENE _______ KOR-N-SEAL ─\ RISER BOOT HOLE CAST — <u>PLAN</u> TO PLAN ------**ALL OUTLETS** SEE DETAIL A-TO HAVE "ELIMINATOR" OIL/WATER **SEPARATOR** 2 1/8"— (OR EQUAL) ₩3/4" CRUSHED STONE BEDDING **SECTION A-A**

(TONGUE AND GROOVE JOINT)

ALL SECTIONS SHALL BE CONCRETE CLASS AA(4000 psi).

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. THE TONGUE AND GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL

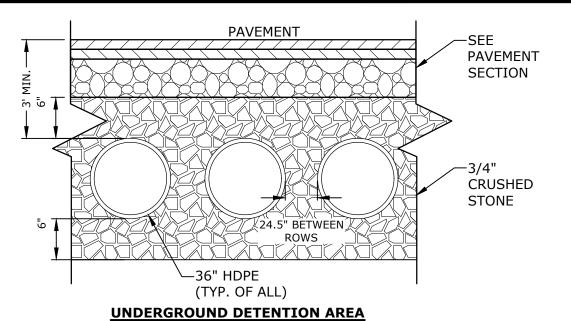
REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT.

RISERS OF 1', 2', 3' & 4' CAN BE USED TO REACH DESIRED DEPTH. THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING.

- FITTING FRAME TO GRADE MAY BE DONE WITH PREFABRICATED ADJUSTMENT RINGS OR CLAY BRICKS (2 COURSES MAX.).
- 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.
- PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING. OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
- 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.
- 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.

4' DIAMETER CATCHBASIN

NO SCALE



-SEE PAVEMENT SECTION -3/4" CRUSHED STONE ∕-3/4" CRUSHED STONE

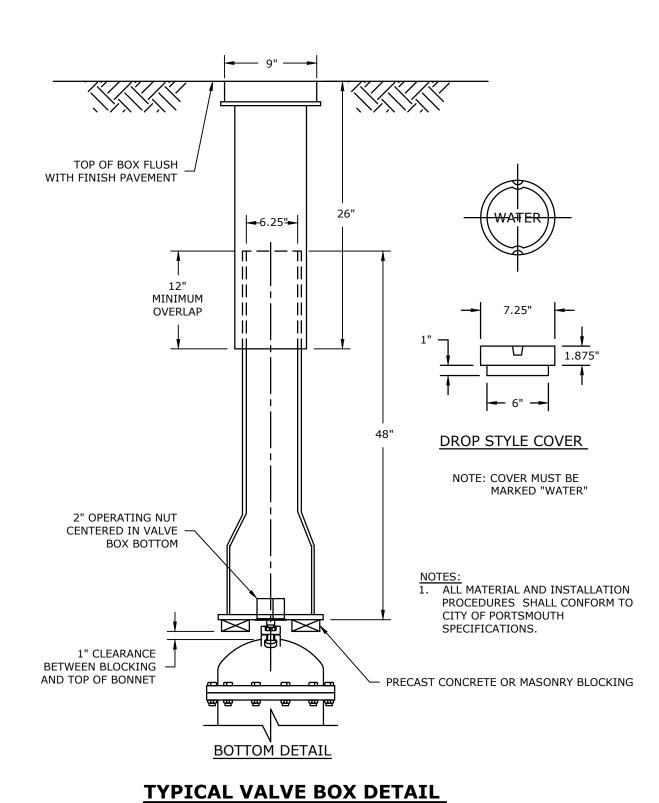
(TYP. OF ALL) **HEADER ROW**

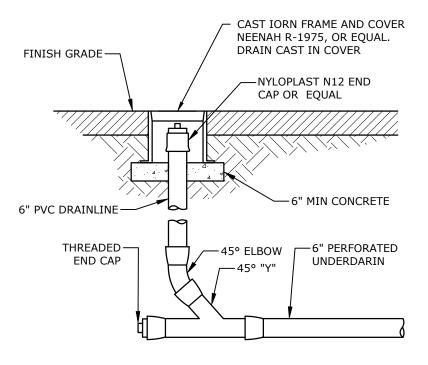
-36" HDPE HEADER

FIELD ELEVATIONS						
	TOP OF STONE	TOP OF PIPE	BOTTOM OF	BOTTOM OF		
	ELEV ELEV PIPE ELEV STONE ELEV					
TBD	TBD	TBD	TBD	TBD		

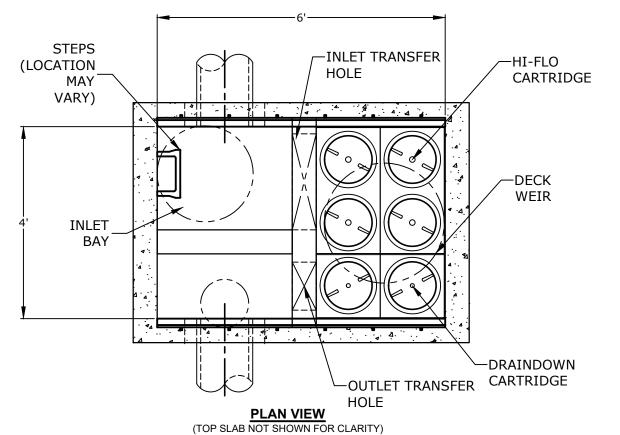
- 1. UNDERGROUND DETENTION SYSTEM TO BE 36" HDPE PIPE DESIGNED FOR H-20
- LOADING. CONTRACTOR TO SUBMIT PIPE SPECIFICATIONS AND FINAL MANUFACTURES DESIGN TO ENGINEER FOR APPROVAL.
- 2. MANUFACTURER TO SUBMIT PLANS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE.
- 3. THE DESIGN ENGINEER SHALL PROVIDE SUFFICIENT INSPECTION TO CERTIFY
- THAT THE SYSTEM HAS BEEN INSTALLED PER THE APPROVED DESIGN PLAN. 4. REFER TO STANDARD DUTY PAVEMENT SECTION DETAIL FOR PAVEMENT SECTION.

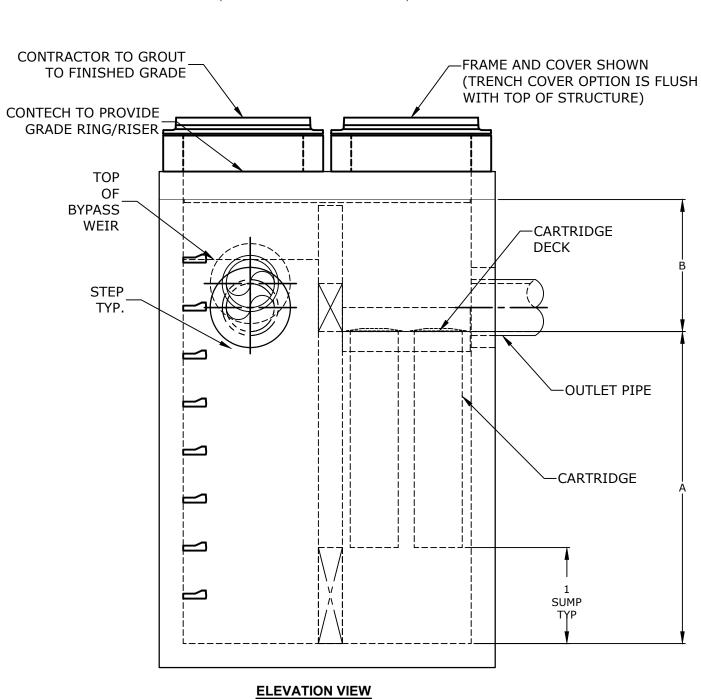
UNDERGROUND DETENTION SYSYTEM DETAIL



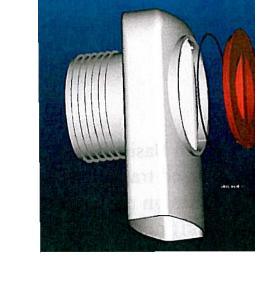


DRAIN CLEAN-OUT NO SCALE





JELLYFISH JFPD0406

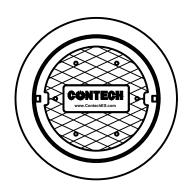


- 1. ALL CATCH BASIN OUTLETS TO HAVE "ELIMINATOR" OIL AND FLOATING DEBRIS TRAP MANUFACTURED BY
- KLEANSTREAM (NO EQUAL) 2. INSTALL DEBRIS TRAP TIGHT TO INSIDE OF STRUCTURE.
- 3. 1/4" HOLE SHALL BE DRILLED IN TOP OF DEBRIS TRAP

"ELIMINATOR" OIL FLOATING DEBRIS TRAP

FIELD ELEVATIONS					
	RIM ELEVATION	INLET ELEVATION	INLET PIPE	OUTLET ELEVATION	OULET PIPE
TBD	TBD	TBD	TBD	TBD	TBD

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							
CARTRIDGE LENGTH	54"	40"	27"	15"			
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-6"	5'-4"	4'-3"	3'-3"			
FLOW RATE HI-FLO / DRAINDOWN (CFS) (PER CART)	0.178 / 0.089	0.133 / 0.067	0.089 / 0.045	0.049 / 0.025			
MAX. TREATMENT (CFS)	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	JFPD0406
WATER QUALITY FLOW RATE (cfs)	0.58
PEAK FLOW RATE (cfs)	4.59
RETURN PERIOD OF PEAK FLOW (yrs)	25
# OF CARTRIDGES REQUIRED (HF / DD)	3/1
CARTRIDGE SIZE	54"

- GENERAL NOTES:

 1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS
- REPRESENTATIVE. www.ContechES.com 3. 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. 4. 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 M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
- 5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.
- 6. OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION. 7. THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE AT EQUAL OR GREATER SLOPE.
- 8. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF

- INSTALLATION NOTES

 A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES
- C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
- D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF E. 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.

Jellyfish Filter THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENT NO. 8,287,726, 8,221,618 & US 8,123,935; OTHER INTERNATIONAL PATENTS PENDING

DETAILS SHEET

K0076-065

MDC/BKC

APRIL 23, 2025

K0076-065_C-DTLS.DWG

MARK DATE DESCRIPTION

PROJECT NO:

DRAWN BY:

CHECKED: APPROVED:

PROPOSED

Brora LLC

Portsmouth, NH

MULTI-FAMILY

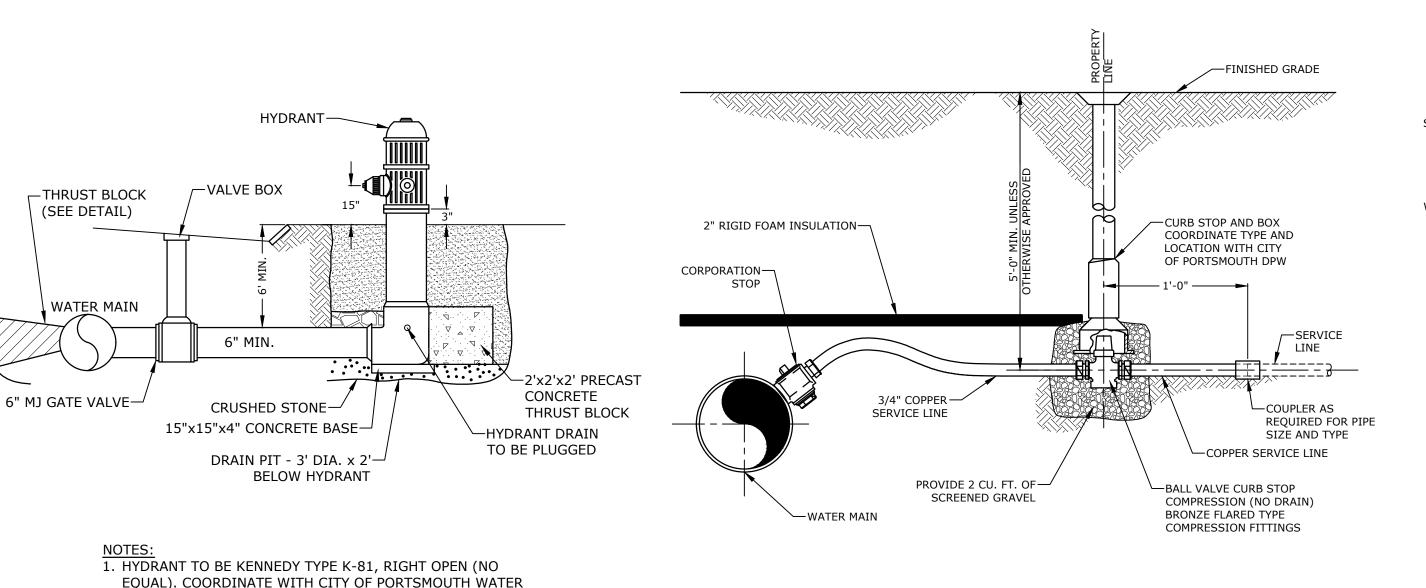
DEVELOPMENT

SCALE: AS SHOWN

C-605

CONTECH JELLYFISH STORMWATER FILTER





NOTE:

1. ALL WATER SERVICE CONNECTIONS SHALL CONFORM TO CITY OF PORTSMOUTH STANDARDS.

-GROUT FENCE OR

-FIELD CORE INTO

SECOND COURSE

RAILING POST

IN PLACE

WATER SERVICE CONNECTION **NO SCALE**

SEWER LINE ~ CONCRETE **ENCASING** FINISHED GRADE -WATER LINE ~ 10'-0" MIN. WATER LINE -SEWER LINE ~ 18" MIN. 10'-0" MIN. 6" THICK ~ CONCRETE **ENCASING PLAN VIEW PROFILE VIEW**

A 10 FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED FROM ANY EXISTING OR PROPOSED WATER LINE.

- AN 18" MINIMUM EDGE TO EDGE VERTICAL SEPARATION SHALL BE PROVIDED, WITH WATER
- ABOVE SEWER, AT ALL CROSSINGS. SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM ANY EXISTING
- OR PROPOSED WATER MAIN 4. WHERE AN 18" VERTICAL SEPARATION CANNOT BE PROVIDED, SEWER PIPE SHALL BE
- CONSTRUCTED USING A SDR 26 PVC PIPE OR ENCASED CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET ON BOTH SIDES OF THE LINE BEING CROSSED, AS SHOWN ABOVE.
- 5. CROSSINGS SHALL CONFORM TO THE CITY OF PORTSMOUTH STANDARDS AND SPECIFICATIONS.

WATER & SEWER CROSSING

-FENCE OR RAILING

POST CORE

CONNECT

MOMENT SLAB

CONNECTION

BASE PLATE

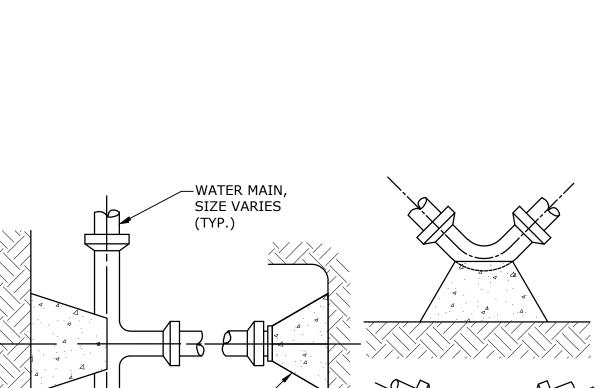
AND GROUT OR

WITH FLANGED

- 1. RETAINING WALL SHALL BE REDI ROCK (BASIS OF DESIGN), VERSA-LOK, RECON WALL SYSTEMS, OR EQUAL.
- 2. THE CONTRACTOR SHALL SUBMIT DESIGN AND CALCULATIONS FOR THE RETAINING WALL THAT SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE. CALCULATIONS SHALL INCLUDE A GLOBAL STABILITY ANALYSIS.
- MINIMUM DESIGN PARAMETERS:
- GLOBAL STABILITY FACTOR OF SAFETY = 1.3
- OVERTURNING FACTOR OF SAFETY UNDER STATIC LOADS = 1.5
- SLIDING FACTOR OF SAFETY UNDER STATIC LOADS = 1.5 • GEOGRID PULLOUT FACTOR OF SAFETY = 1.5
- SEISMIC FACTOR OF SAFETY = 1.1
- EQUIVALENT FLUID PRESSURE = 40 POUNDS PER CUBIC FOOT (PCF) FOR GRAVITY AND CANTILEVERED WALLS ABOVE GROUNDWATER AND WALLS WITH APPROPRIATE DRAINAGE BEHIND THE WALL.
- HYDROSTATIC WATER PRESSURE ALONG THE HEIGHT OF THE WALL BELOW GROUNDWATER SHOULD BE INCLUDED IF DRAINAGE IS NOT PROVIDED.
- WHERE THE CALCULATED EARTH PRESSURE BEHIND THE WALL IS LESS THAN 250 POUNDS PER SQUARE FOOT (PSF), IT SHOULD BE INCREASED TO 250 PSF TO
- ACCOUNT FOR STRESSES CREATED BY COMPACTION WITHIN 5 FEET OF THE WALL WALLS SHOULD BE DESIGNED FOR APPROPRIATE SLOPING BACKFILL
- WALLS SHOULD BE DESIGNED TO RESIST AN EARTHQUAKE FORCE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC), CURRENT EDITION.
- 4. WALL DESIGNS SHALL CONSIDER EFFECTS OF SLOPE, TRAFFIC LOADS, BUILDING LOADS, STRUCTURES, UTILITIES, GUARDRAIL AND/OR FENCING AS REQUIRED. WALL DESIGN ENGINEER SHALL CONSIDER HEIGHT AND SPECIFY SAFETY RAIL WHERE
- REQUIRED. 6. ALL INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION MANUAL AND THE WALL DESIGN ENGINEER'S DESIGN
- PLANS AND SPECIFICATIONS.
- 7. THE WALL DESIGN ENGINEER SHALL COMPLETE SUFFICIENT INSPECTIONS DURING CONSTRUCTION TO CERTIFY WORK IS COMPLETED IN ACCORDANCE WITH DESIGN. 8. CONTRACTOR SHALL DIRECT SURFACE RUNOFF AWAY FROM THE WALL DURING
- 9. ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT OR OTHER SURFACE TREATMENT SHALL BE INSTALLED IN THE AREA OF THE WALL IMMEDIATELY AFTER THE WALL IS COMPLETE OR OTHER MEASURES SHALL BE TAKEN TO PROTECT THE WALL
- 10. CONTRACTOR SHALL SUPPLY PRODUCT INFORMATION FOR BLOCK TYPE / TEXTURE AND
- COLOR CHOICE TO THE OWNER FOR APPROVAL PRIOR TO ORDERING MATERIALS. 11. RETAINING WALL DESIGN PLANS AND CALCULATIONS SHALL BE FROM THE WALL
- MANUFACTURER AND SHALL INCLUDE A GLOBAL STABILITY ANALYSIS.
- 12. FINAL STRUCTURAL DESIGN TO BE SUBMITTED TO THE ENGINEER WITH ALL REQUIRED CALCULATIONS AND PLANS. 13. STRUCTURAL DESIGN TO BE COMPLETED AND STAMPED BY A NEW HAMPSHIRE

LICENSED STRUCTURAL ENGINEER. DESIGN ENGINEER SHALL INSPECT WALL DURING

- CONSTRUCTION AND CERTIFY THAT IT HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS SUBMITTED AS PART OF THE BUILDING PERMIT. 14. AN AS-BUILT PLAN SHOWING WALL LOCATION AND DIMENSIONS SHALL BE SUBMITTED TO THE OWNER AND ENGINEER UPON COMPLETION.
- 15. ANY UNSUITABLE SOIL SUCH AS FROZEN OR ORGANIC SOILS SHOULD BE REMOVED FROM BEHIND THE PROPOSED RETAINING WALLS AND REPLACED WITH FREE DRAINING BACKFILL SUCH AS GRAVEL BORROW.
- 16. EXISTING FILL SHOULD NOT BE USED WITHIN FIVE (5) FEET OF CANTILEVERED OR GRAVITY WALLS.
- 17. THESE DETAILS ARE FOR REFERENCE ONLY. DETERMINATION OF THE SUITABILITY AND/OR MANNER OF USE OF ANY DETAILS CONTAINED IN THIS DOCUMENT IS THE SOLE RESPONSIBILITY OF THE WALL DESIGN ENGINEER OF RECORD. FINAL PROJECT DESIGNS, INCLUDING ALL CONSTRUCTION DETAILS, SHALL BE PREPARED BY A NEW HAMPSHIRE LICENSED PROFESSIONAL ENGINEER USING THE ACTUAL CONDITIONS OF THE PROPOSED SITE.



WATER TRENCH

— LOAM | PAVED — ►

AREA AREA

3'-0" MIN. OR D+2

(WHICHEVER IS GREATER)

-SEE PAVEMENT DETAIL

—BASE PAVEMENT

OF PIPE.

DETAIL

1. SAND BEDDING AND BACKFILL FOR

FULL WIDTH OF THE TRENCH FROM 6"

PIPE IN ROCK UP TO 12" ABOVE TOP

CITY OF PORTSMOUTH STANDARDS.

COORDINATE ALL INSTALLATIONS

WITH THE CITY OF PORTSMOUTH.

BELOW PIPE IN EARTH AND 12" BELOW

WATER MAIN SHALL BE INSTALLED PER

6" LOAM-

& SEED

WARNING

CENTERED

OVER PIPE

COMPACTED-

GRANULAR FILL

SPRING LINE

BEDDING AND

BACKFILL MATERIAL

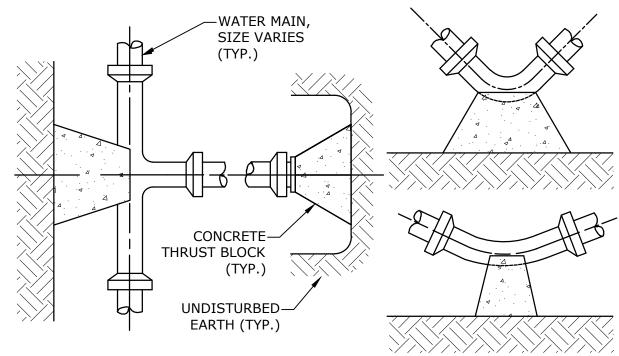
UNDISTURBED-

TRACER TAPE

200psi	SQUARE FEET			UST BLOC MATERIAL		RING ON
1 1	REACTION			PIPE SIZE		
RE =	TYPE	4"	6"	8"	10"	12"
SU	A 90°	0.89	2.19	3.82	11.14	17.24
RES	B 180°	0.65	1.55	2.78	8.38	12.00
T PR	C 45°	0.48	1.19	2.12	6.02	9.32
TEST	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

- 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.
- 2. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF
- 3. PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST
- BLOCKS. 4. WHERE M.J. PIPE IS USED, M.J. PLUG WITH RETAINER GLAND MAY BE SUBSTITUTED FOR END BLOCKINGS.
- 5. INSTALLATION AND STANDARD DIMENSIONAL REQUIREMENTS SHALL BE WITH CITY OF PORTSMOUTH WATER DEPARTMENT STANDARDS.

THRUST BLOCKING DETAIL NO SCALE



V	Da la cara da NUL
	Portsmouth, NH

PROPOSED

Brora LLC

MULTI-FAMILY

DEVELOPMENT

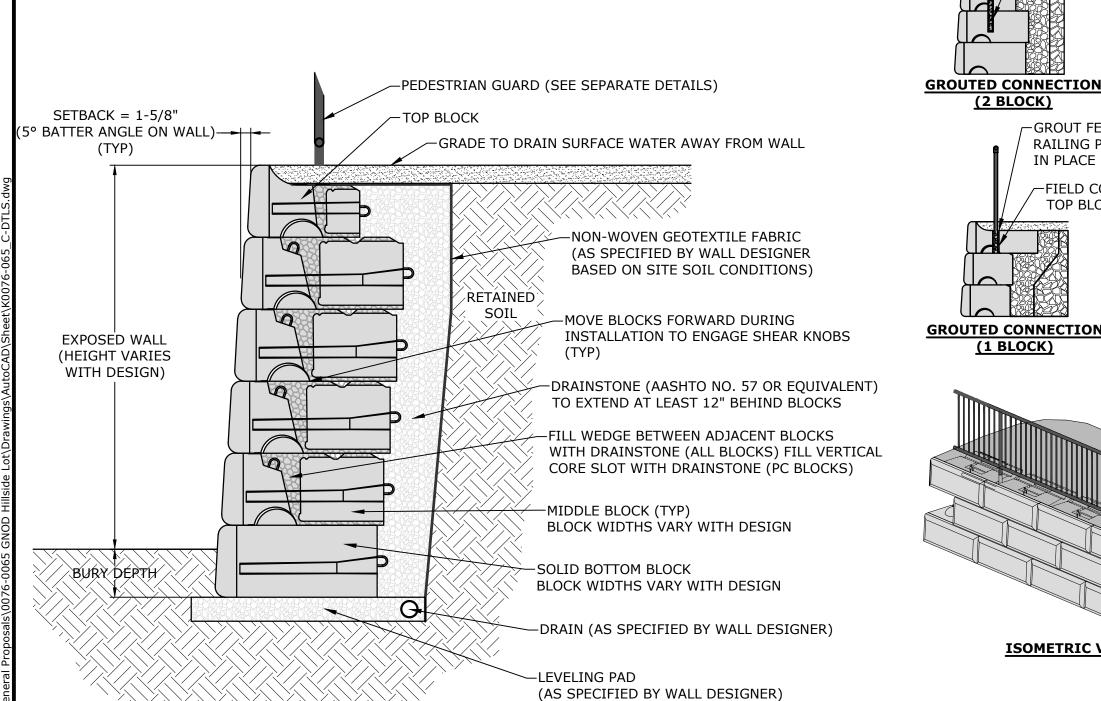
MARK DATE DESCRIPTION PROJECT NO: K0076-065

APRIL 23, 2025 K0076-065_C-DTLS.DWG DRAWN BY MDC/BKC CHECKED: APPROVED:

DETAILS SHEET

SCALE: AS SHOWN

C-606



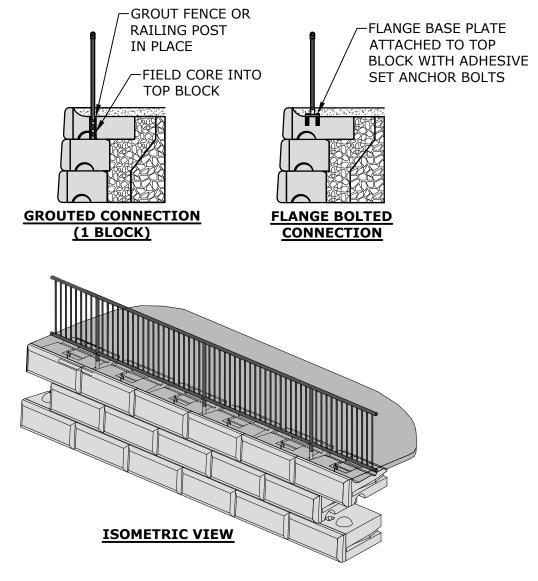
DEPARTMENT AND CITY OF PORTSMOUTH FIRE DEPARTMENT.

2. PAINT HYDRANT IN ACCORDANCE WITH CITY STANDARD

SPECIFICATIONS AFTER INSTALLATION AND TESTING.

FIRE HYDRANT

NO SCALE



TYPICAL BLOCK RETAINING WALL SECTION

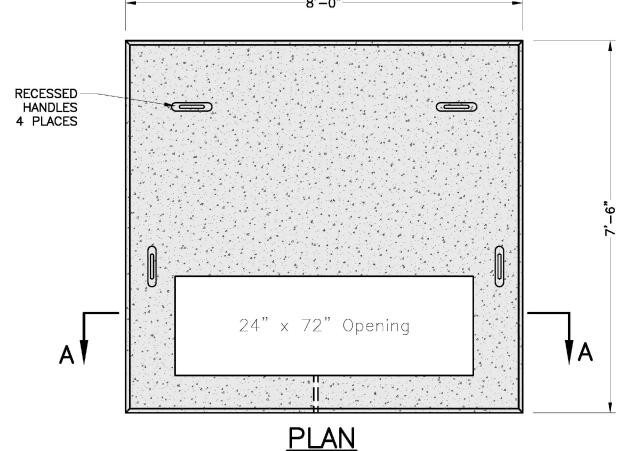
 THESE GENERIC PEDESTRIAN GUARD AND FENCE DETAILS SHOW POTENTIAL OPTIONS FOR INSTALLATION ON THE TOP OF RETAINING WALL. IT IS THE WALL DESIGN ENGINEER'S RESPONSIBILITY TO FULLY DESIGN AND DETAIL THE CONNECTION OF THE GUARD POSTS TO THE RETAINING WALL BLOCKS

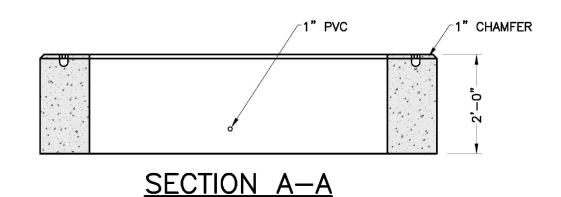
AND ASSURE ACCEPTABLE RESISTANCE TO THE APPLIED FORCES.

TYPICAL FENCE OR PEDESTRIAN GUARD CONNECTION OPTIONS

FROM RUNOFF.

NO SCALE





←2 - 3" TELEPHONE CONDUITS

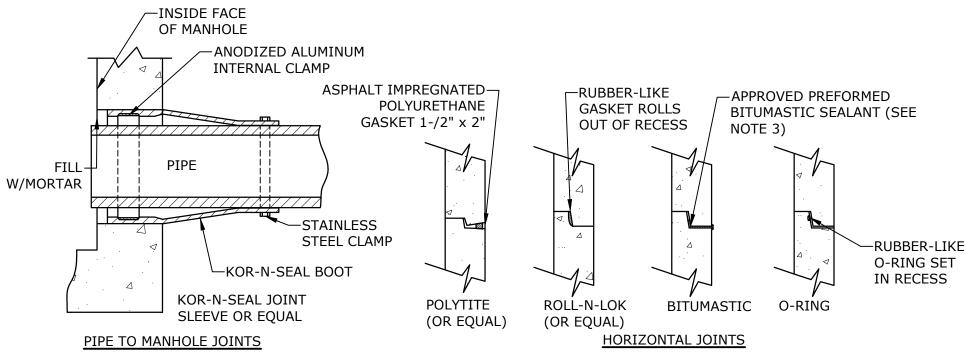
-SAND BEDDING (SEE NOTE 8)

1. DIMENSIONS SHOWN REPRESENT TYPICAL REQUIREMENTS. MANHOLE LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED WITH EVERSOURCE PRIOR TO CONSTRUCTION

2. CONCRETE MINIMUM STRENGTH - 4,000 PSI @ 28 DAYS 3. STEEL REINFORCEMENT - ASTM A615,

GRADE 60

4. PAD MEETS OR EXCEEDS EVERSOURCE SPECIFICATIONS



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.

> MANHOLE JOINTS NO SCALE

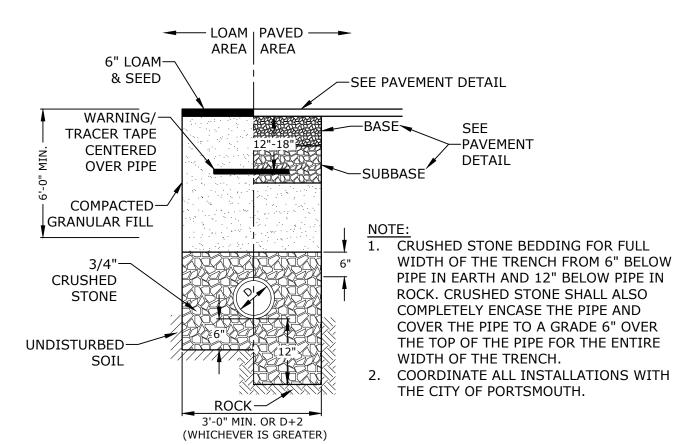
> > -ADJUST TO GRADE WITH NOT MORE

6" TYP.

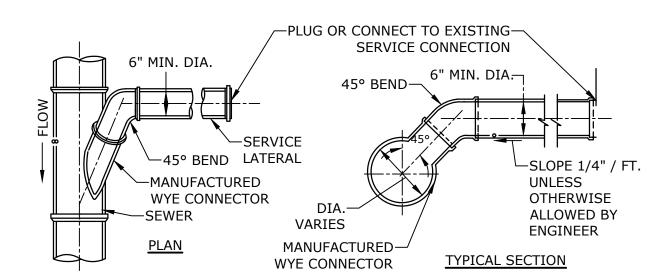
SUBGRADE

TYPICAL SECTION

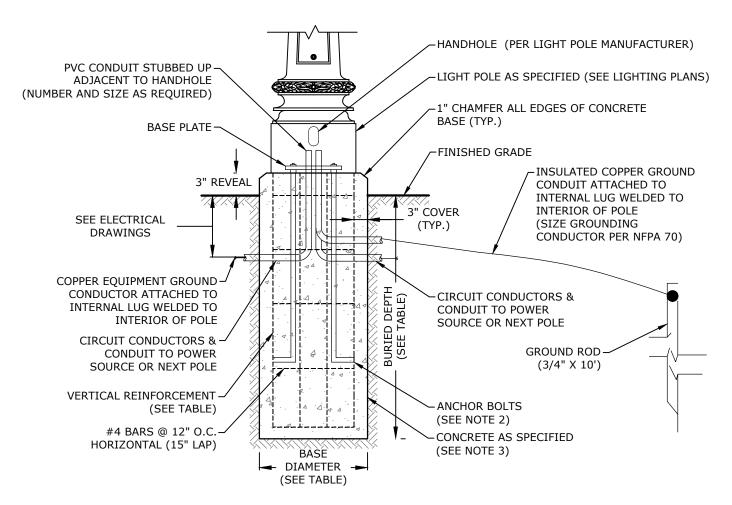
STONE



SEWER SERVICE TRENCH



STANDARD SERVICE LATERAL CONNECTION NO SCALE



DEPTH BASE VERTICAL HEIGHT (BURIED) DIAMETER REINFORCEMENT 6 - #6 >16' 72" (MIN.)

1. ALL LIGHT POLES, LUMINARIES AND WIRE TO BE FURNISHED BY THE CONTRACTOR UNLESS

- OTHERWISE DIRECTED.
- 2. CONTRACTOR SHALL VERIFY BOLT TEMPLATE AND ANCHOR BOLT SIZE WITH POLE MANUFACTURER PRIOR TO CONSTRUCTION.
- CONCRETE SHALL BE 4,000 PSI CLASS A, PRE-CAST CONCRETE. REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
 - FOR LIGHT POLES GREATER THAN 20' IN HEIGHT, THE LIGHT POLE BASE SHALL BE DESIGNED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE.

TYPICAL LIGHT POLE BASE NO SCALE

LOAM PAVED AREA | AREA **←**

3-PHASE TRANSFORMER PAD

-SEE TYPICAL CROSS SECTIONS (SHEET R-4) 6" COMPACTED-LOAM AND SEED SEE TYPICAL >PAVEMENT CROSS -SUBBASE 1 COMPACTED-SECTIONS GRANULAR FILL 2 - 1-1/2" STREET LIGHTING CONDUIT 3" (MIN.) —2 - 3" CABLE CONDUITS **BURIED CABLE** SAFETY RIBBON 9 - 5" ELECTRICAL CONDUITS

UNDISTURBED SOIL-

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.

2" MIN. 8" MIN. \ 3" MIN.

2. 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

7. 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

THAN 12" OF BRICK MASONRY, FRAME TO BE SET IN FULL BED OF MORTAR. TOP OF SHELF SHALL —30" CLEAR OPENING BE 1" ABOVE CROWN INCLUDING FRAME AND OF HIGHEST PIPE COVER 12" MIN. EACH SIDE 5" MIN ECCENTRIC TOP **SECTION B-B** 5" MIN HEIGHT OF RISER VARY FROM 1' TO 4' 3" MAXIMUM PROJECTION OF PIPE INTO MANHOLE -SEE MANHOLE OPENING JOINT DETAIL 5" MIN. -BRICK MASONRY INVERT FINISH-3/4" CRUSHED-

1. INVERT AND SHELF TO BE PLACED AFTER EACH LEAKAGE TEST.

SECTION A-A

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 EJ. 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.

SEWER MANHOLE

NO SCALE

PROPOSED MULTI-FAMILY DEVELOPMENT

Brora LLC

Portsmouth, NH

MARK DATE DESCRIPTION PROJECT NO: K0076-065 APRIL 23, 2025 DATE: K0076-065_C-DTLS.DWG DRAWN BY: MDC/BKC CHECKED:

SCALE: AS SHOWN

APPROVED:

DETAILS SHEET

C-607



MULTI-FAMILY DEVELOPMENT

PORTSMOUTH BLVD, PORTSMOUTH,





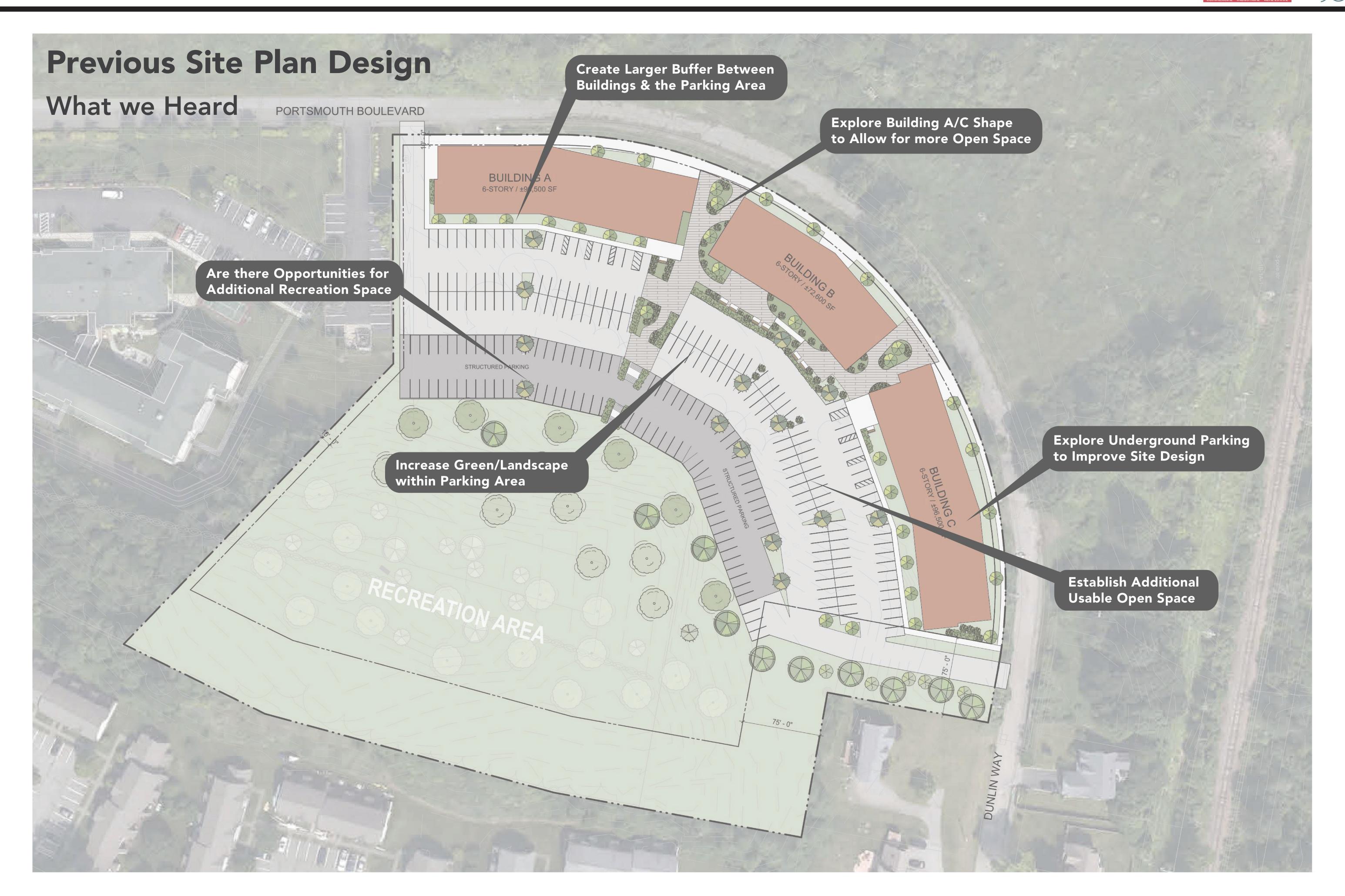


Project Site Location





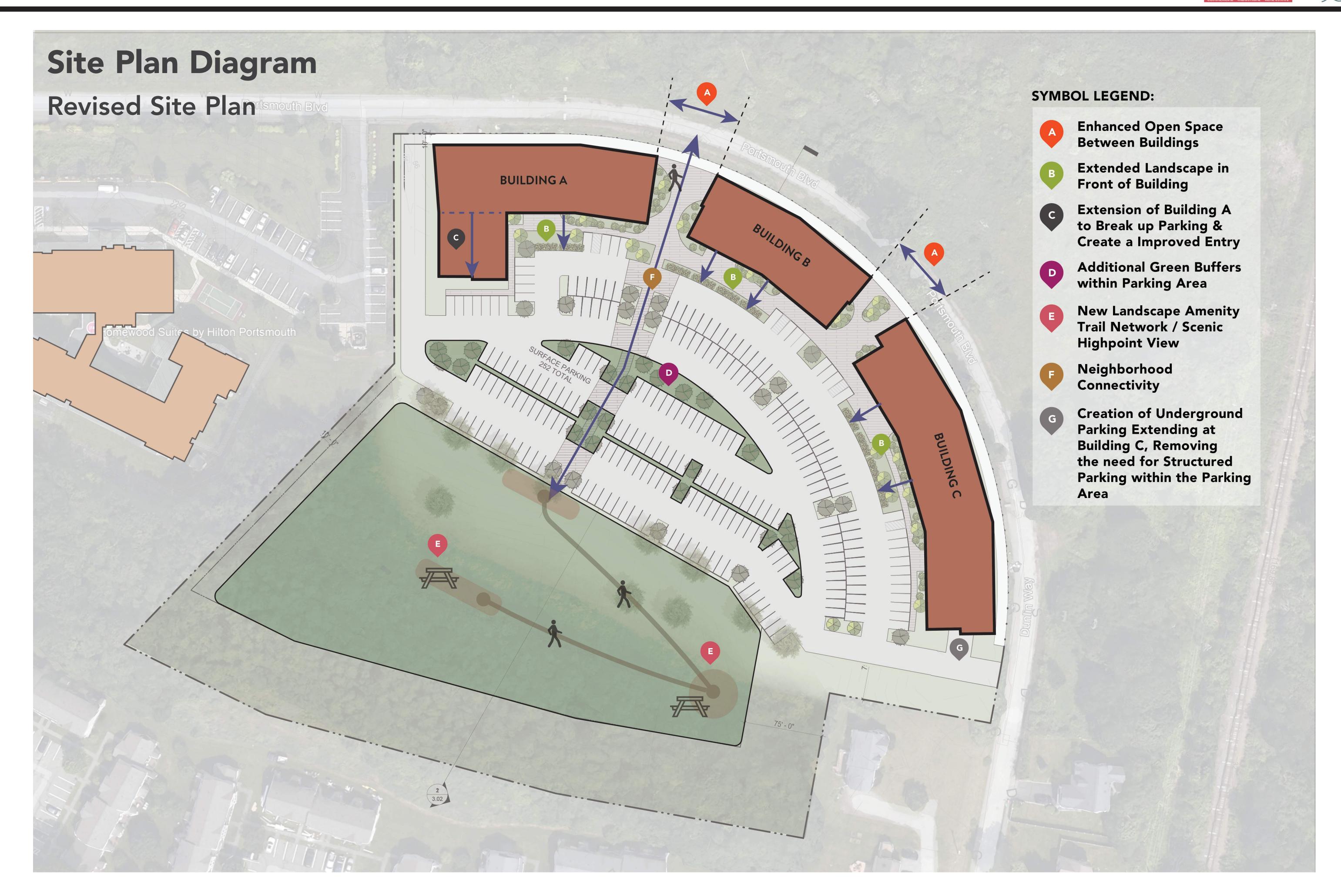


















UNIT %

21.7%

37.7%

40.6%

UNIT %

18.2%

45.5%

36.4%

UNIT %

10.6%

52.2%

37.2%

OVERALL UNIT %

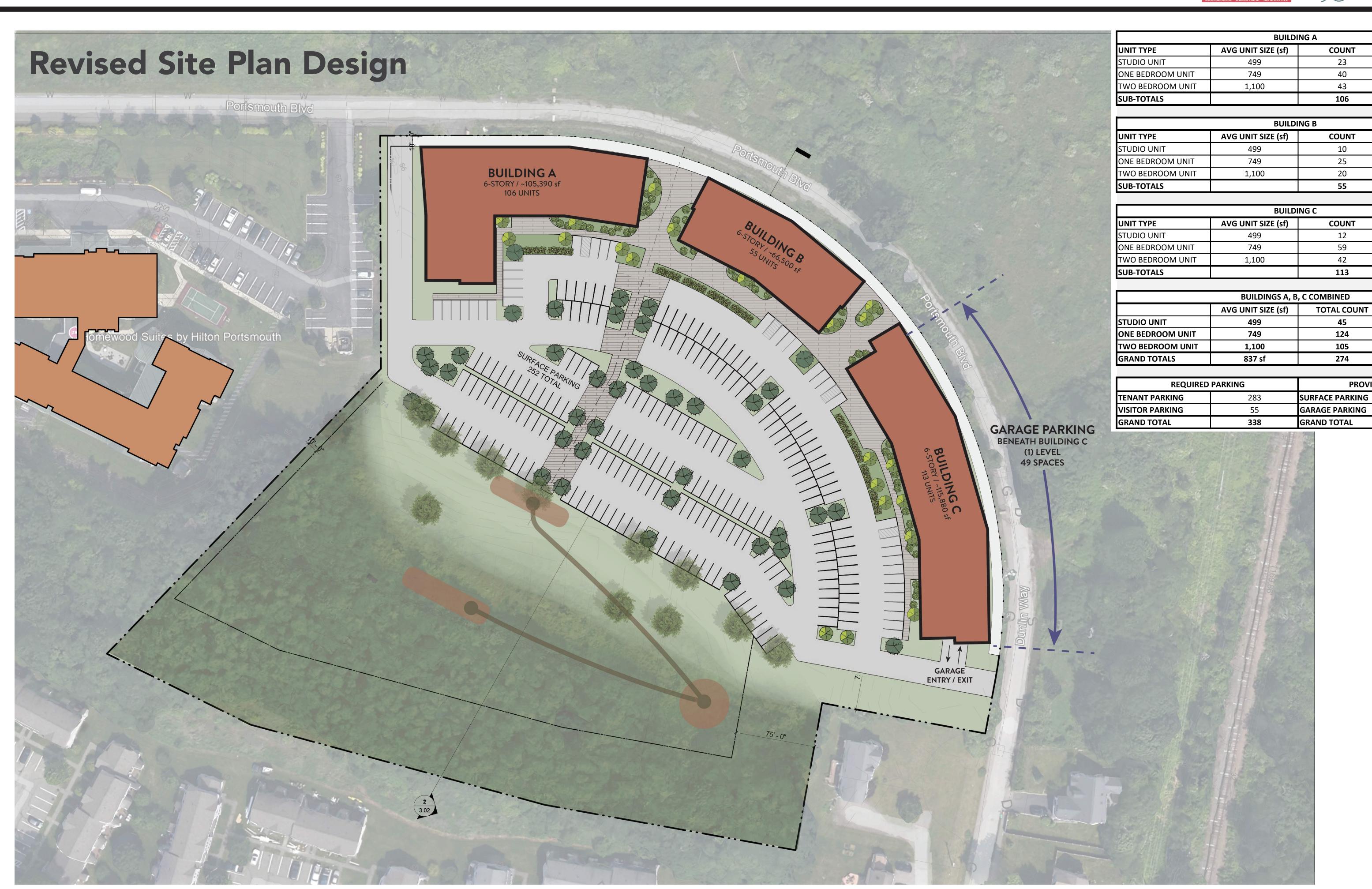
16.4%

45.3%

38.3%

252

PROVIDED PARKING

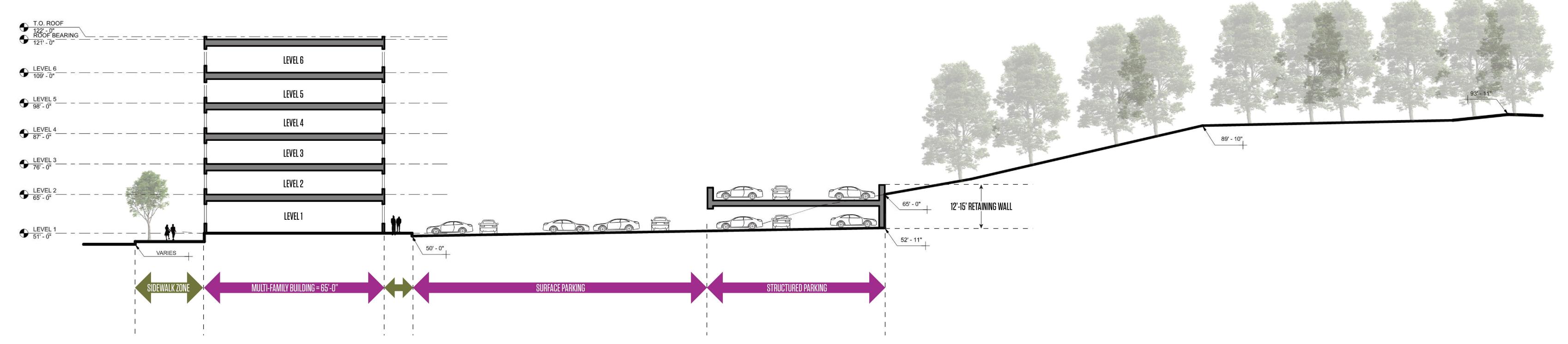




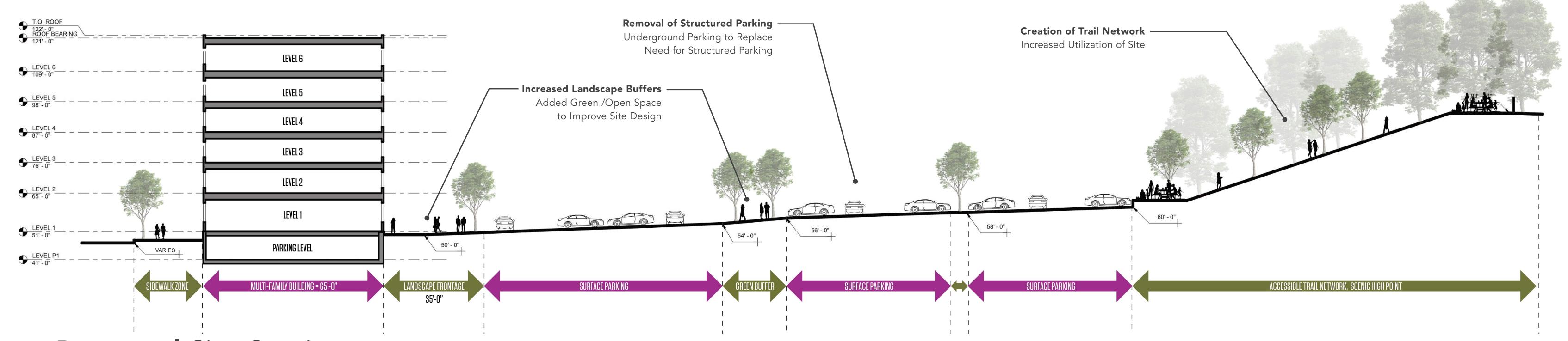




Site Section Diagrams



Previous Site Section



Proposed Site Section

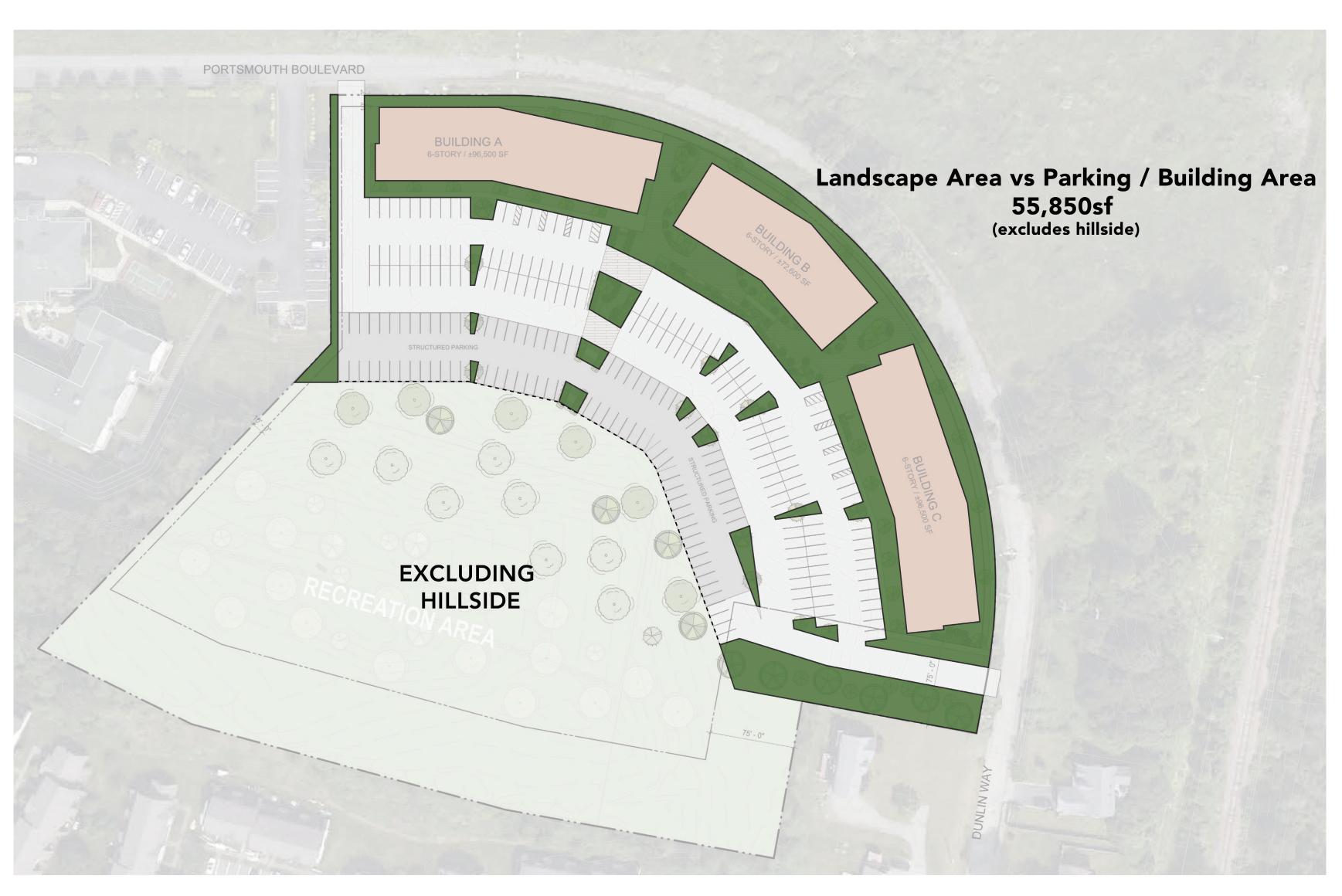


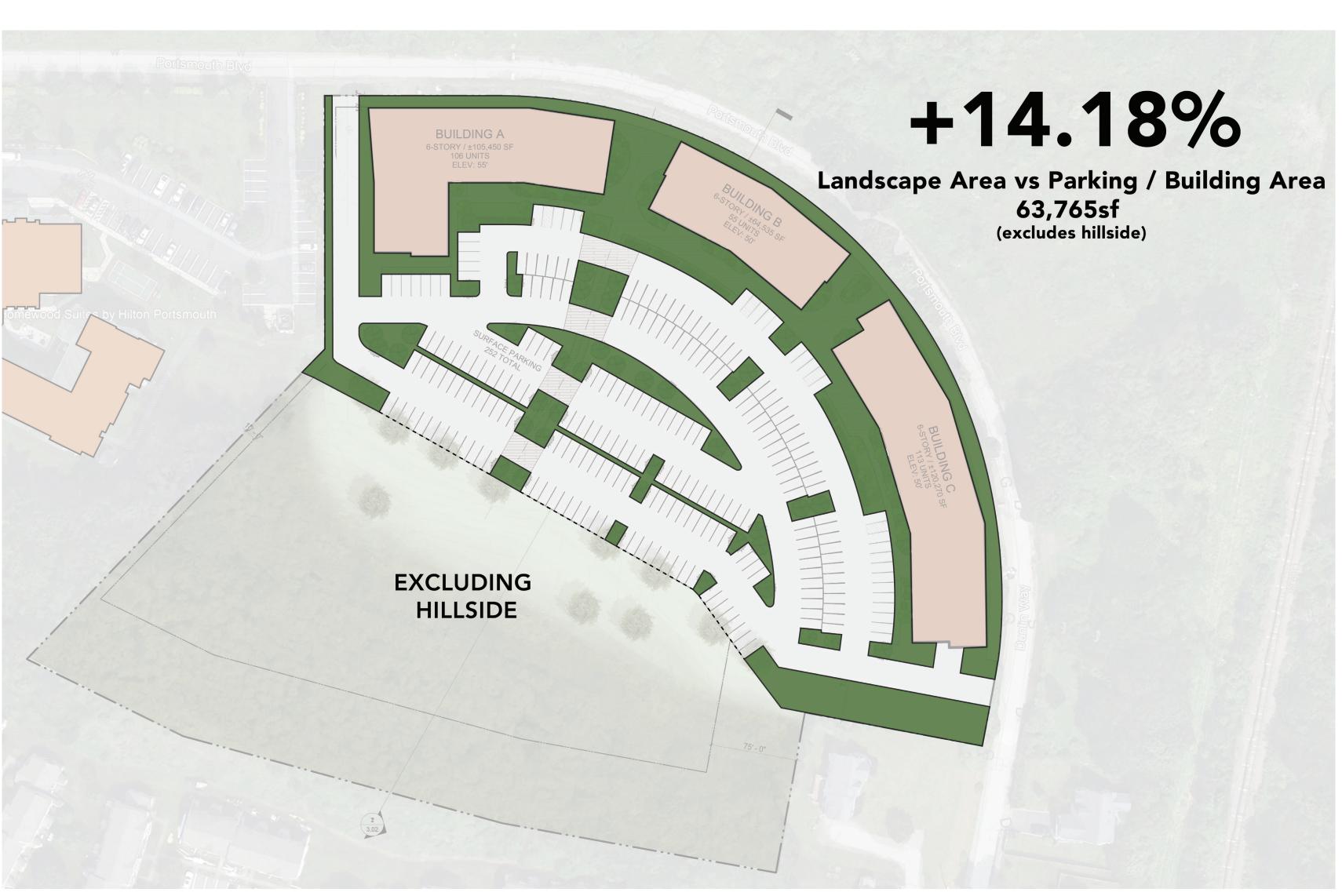




Landscape Area vs Parking / Building Area

Site Comparison





Previous 03/06 Planning Board Site Plan

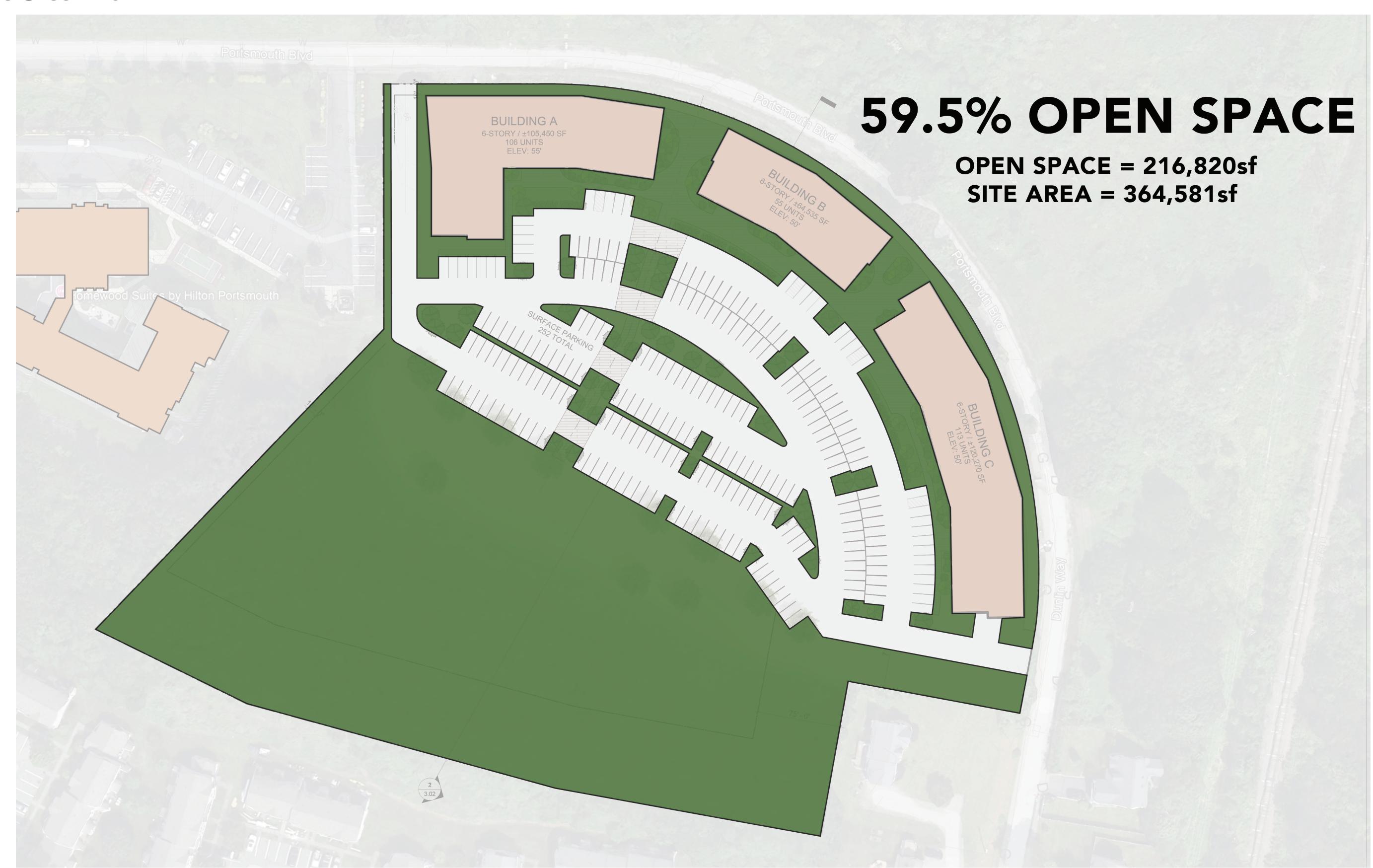
Current Proposed Site Plan





Open Space Area

Current Site Plan



Letter of Authorization Dunlin Way & Portsmouth Boulevard, Portsmouth Map 213 Lot 12

The undersigned owner and applicant of the above-referenced property hereby authorize representatives of Tighe & Bond, Inc. to represent their interests, and to submit any and all materials related thereto on their behalf for any local and state permitting applications solely in connection with the multifamily development thereof.

Brora, LLC

Date: 4/21/2025

Name: Jennifer Stebbins Thomas

Title: Manager

The Kane Company

Date: 4 21 225

Name: Kimery Poldrack

Title: SVP Development & Construction

City of Portsmouth

Department of Public Works



MEMORANDUM

TO: Peter Stith, Principal Planner

CC: Karen Conard, City Manager

Peter Rice, Director of Public Works Peter Britz, Director of Planning

FROM: Marc Batchelder, Project Manager

Erich Fiedler, City Engineer

DATE: June 11, 2025

SUBJECT: City Council Recommendation

Borthwick / Coakley Connector Road Easements

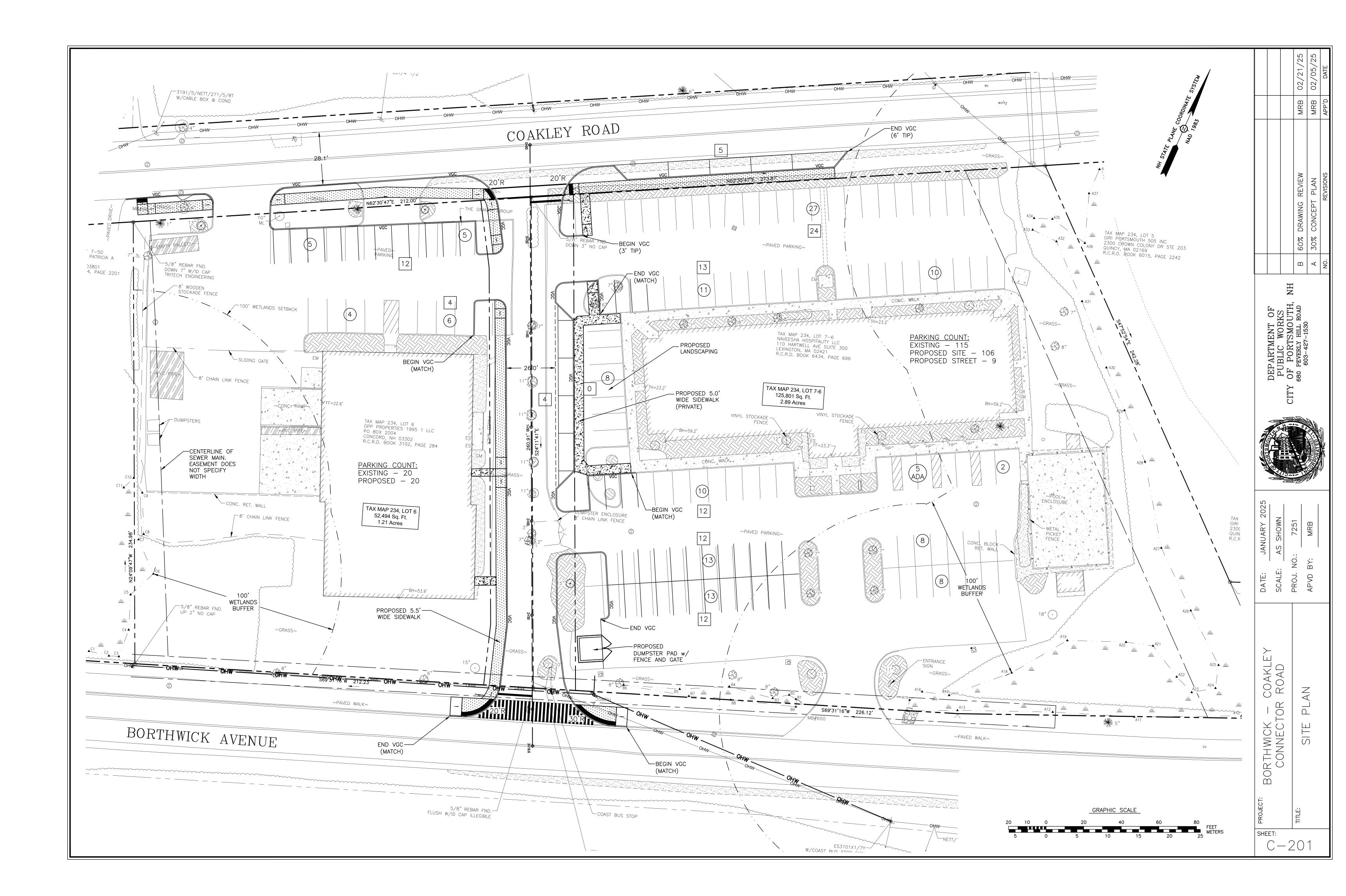
As part of a plan to reduce the long-standing congestion and address safety concerns at the intersection of Route 1 By-Pass and Coakley Road / Cottage Street, the City Department of Public Works is coordinating efforts with the New Hampshire Department of Transportation to eliminate the existing traffic signal at this intersection. The plan calls for extending the median island on the By-Pass to block left turns to and from Coakley Road and Cottage Street.

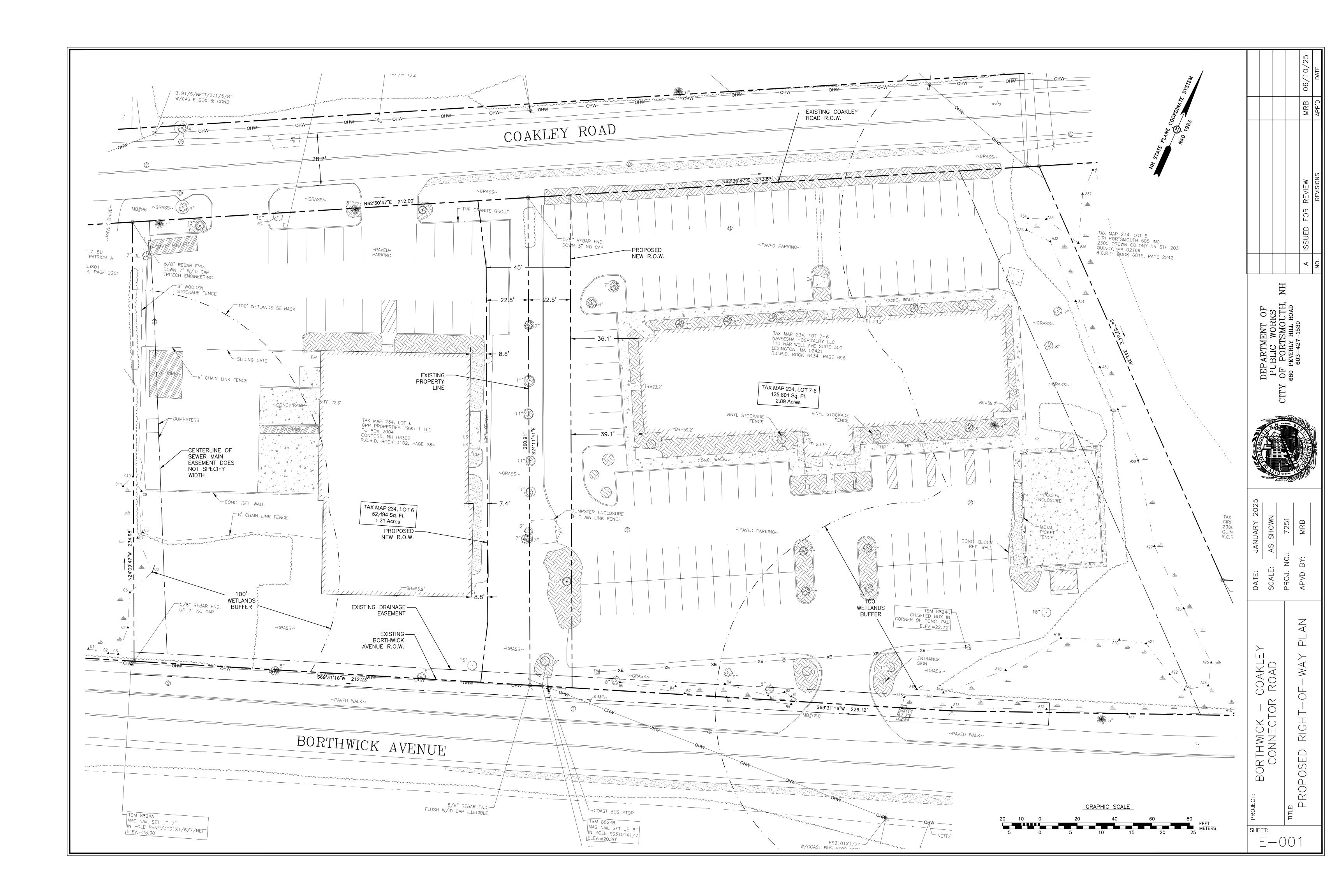
To implement these traffic changes, the City must create a new connector road between Coakley Road and Borthwick Avenue. The connector will allow residents and business along Coakley Road to reach the signalized intersection at Route 1 By-Pass and Borthwick Avenue, preserving access to the Traffic Circle and points beyond.

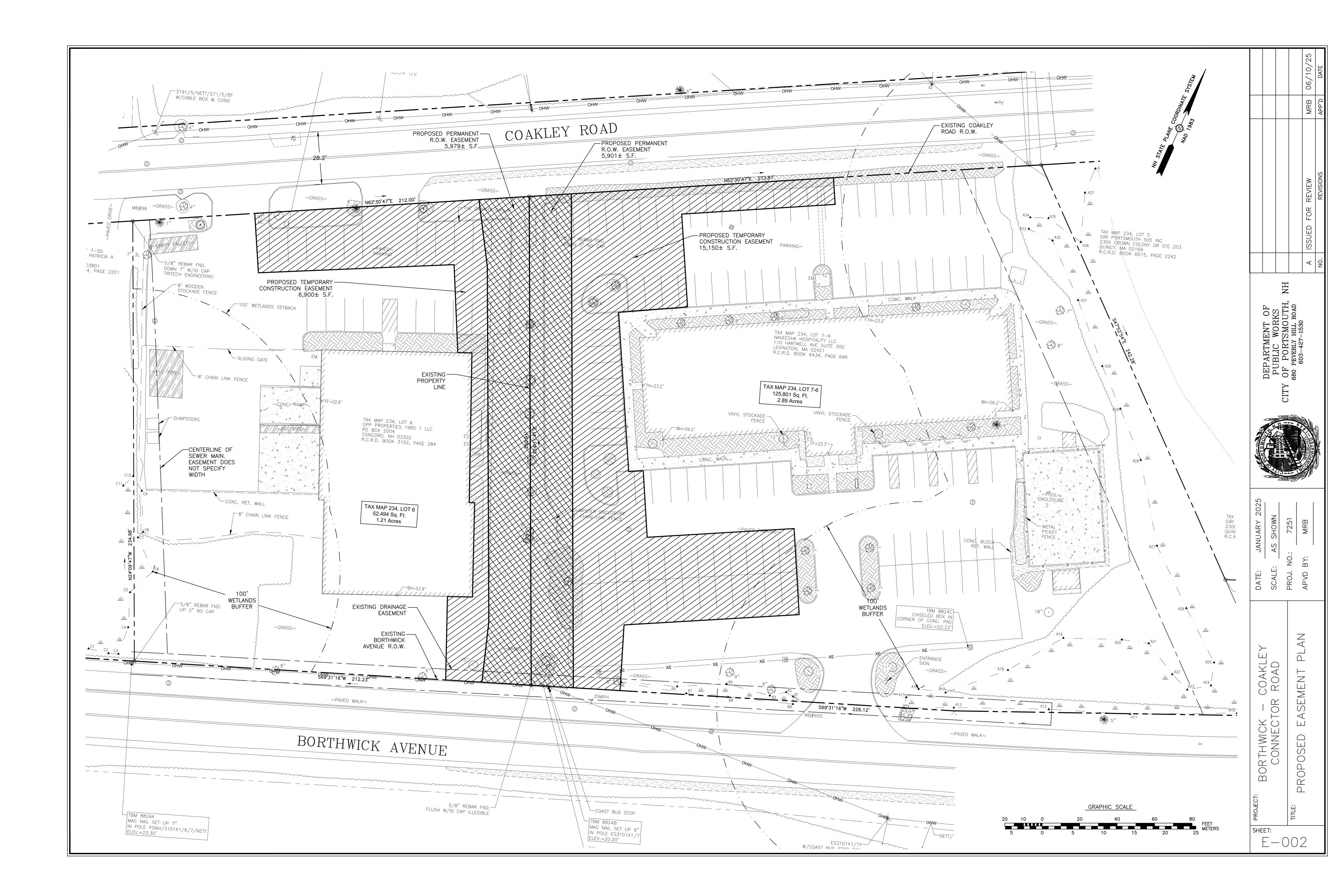
Public Works has identified the best location for this connector road as the area between the Fairfield Inn and the Granite Group Plumbing Supply, as depicted on the attached plan (Sheet C-201). The project requires the City to acquire certain legal rights over privately owned land to complete the connector road. The proposed permanent and temporary easements are depicted on the attached plans (Sheets E-001 and E-002).

The proposed layout follows the legal process under RSA 231:8–RSA 231:10, which includes the formal use of eminent domain. This also includes the formal eminent domain processes described in RSA Chapter 498-A.

City staff seeks Planning Board review and recommendation to the City Council to secure the required easements in accordance with Ordinance Chapter 11, Section 11.602.		









P-5118-001 May 9, 2025

Mr. Peter Britz Director of Planning and Sustainability City of Portsmouth Planning & Sustainability Department 1 Junkins Avenue Portsmouth, New Hampshire 03801

Site Plan Review & Conditional Use Approval Extension Request (LU-24-92) Proposed Mixed-Use Development, 1035 Lafayette Road, Portsmouth, NH

Dear Peter,

On behalf of Christ Church Parish (Owner), and Portsmouth Housing Authority (Applicant), we respectfully request to extend the Site Plan Review, and Development Site, Density Bonus and Off-Street Parking Conditional Use approvals that were granted on August 15, 2024, for an additional one (1) year.

If you have any questions or need any additional information, please contact me by phone at (603) 294-9213 or by email at NAHansen@tighebond.com.

Sincerely,

TIGHE & BOND, INC.

Neil A. Hansen, PE Project Manager

Copy: Portsmouth Housing Authority (via E-mail)

Christ Church Parish (via E-mail)

J:\P\P5118 Portsmouth Housing Authority\001 1035 Lafayette Road\Report Evaluation\Applications\City of Portsmouth\20250509 PB Approval Extension\20250509 PB Approval Extension Request.docx

Ross Engineering, LLC Civil / Structural Engineering

909 Islington Street Portsmouth, NH 03801 603-433-7560 alexross@comcast.net

May 28, 2025

City of Portsmouth Planning Department 1 Junkins Ave Portsmouth, NH 03801

> Site Plan Approval Extension Request 806 Route 1 Bypass Tax Map 161, Lot 43 Land Use Application 22-81

The City of Portsmouth Site Plan Approval for this parcel will expire on June 23, 2025. The site plan approval was granted a second extension at a Planning Board meeting on June 20, 2024 as shown in a Planning Board Notice of Decision dated June 27, 2024. The Planning Board also granted Amended Site Plan Approval on this date for revisions as necessary to connect the drainage on 806 Route 1 Bypass to the drainage work on 822 US Route 1 Bypass (Tax Map 160, Lot 29).

Work has commenced on 806 US Route 1 Bypass to construct the drainage structures and connect to the work on 822 US Route 1 Bypass as approved by the Planning Board. In order to keep the business open and allow safe flow of traffic, the work on both sites has been done in stages. The drainage work must be completed prior to the construction of other site improvements as part of the staged work. Due to the on-going work and the planned site improvements after the completion of the on-going work, the owner would like to request an extension of the approvals. TAC recommended approval of an additional 1-year extension at its meeting on May, 6, 2025 as per a TAC Notice of Decision dated May 8, 2025.

The latest approved plan set dated 6-11-24 has been attached to this submittal. No changes to this plan set are proposed.

Sincerely

Site Plan 806 Route 1 Bypass Portsmouth, New Hampshire

PREPARED FOR:

RIGZ ENTERPRISES LLC

PREPARED BY:

ROSS ENGINEERING, LLC

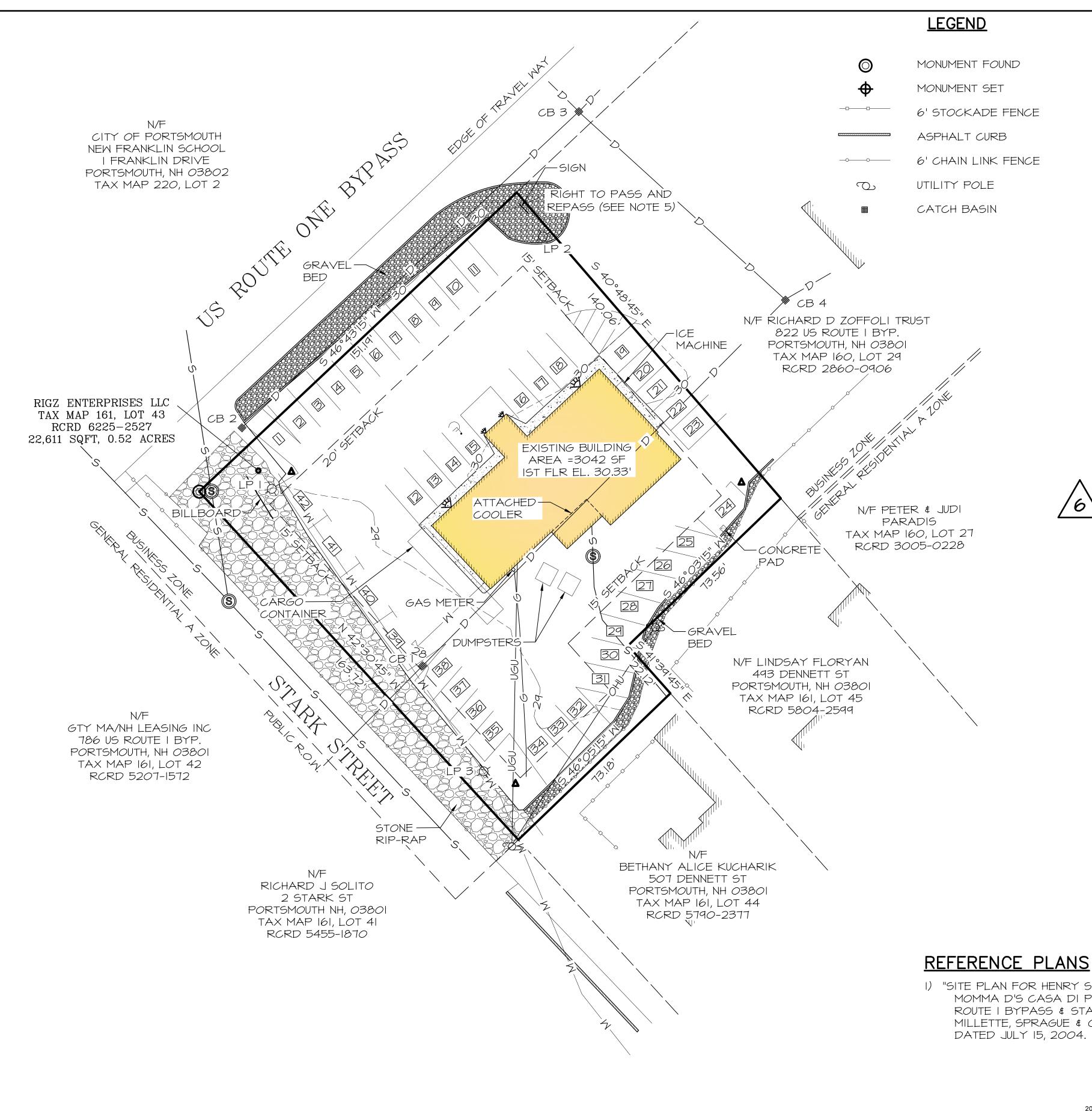
Civil/Structural Engineering & Surveying
909 Islington St.
Portsmouth, NH 03801
(603) 433-7560

LIST OF PROJECT PLANS:

SITE PLAN SET

- 1 Existing Conditions Plan
- 2 Site Plan
- 3 Utility Plan
- 4 Landscape Plan
- 5 Easement Plan
- 6 Notes & Details
- 7 Sewer Notes Lighting Plan

June 11, 2024



NOTES

I) OWNER OF RECORD: RIGZ ENTERPRISES 18 DIXON LANE **DERRY, NH 03038**

> TAX MAP 161, LOT 43 806 US ROUTE | BYPASS PORTSMOUTH, NH 03801 RCRD: 6225-2527 AREA: 22,611 SF, 0.52 ACRES

MINIMUM OPEN SPACE.

2) BASIS OF BEARING HELD FROM PLAN REFERENCE #1.

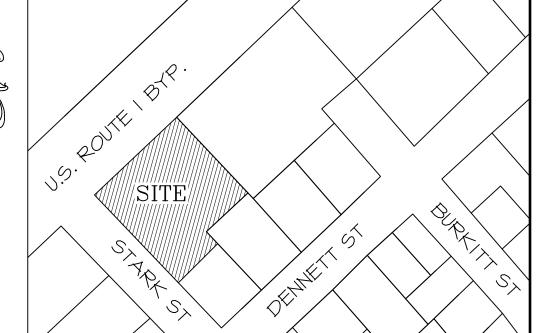
3) PARCEL IS IN BUSINESS ZONE (B): MINIMUM LOT AREA20,000 SF MIN. LOT AREA PER DWELLING UNIT2,500 SF MINIMUM FRONTAGE. ..100 FT MINIMUM DEPTH80 FT SETBACKS: FRONT. ..20 FT .I5 FT REAR.. ..15 FT MAXIMUM BUILDING HEIGHT. ..50 FT MAXIMUM BUILDING COVERAGE.. ..35%

4) THE PARCEL IS NOT WITHIN A FEMA FLOOD ZONE, AS PER FLOOD INSURANCE RATE MAP #33015C0259F, PANEL 259 OF 681, DATED JANUARY 29, 2021. VERTICAL DATUM IS NAVD 1988.

..15%

5) A RIGHT TO PASS AND REPASS FROM THE INTERSTATE HIGHWAY USING THE EXITS IN COMMON WITH OTHERS LOCATED ON LAND FORMERLY OF D. RICHARD ZOFFOLI FOR PURPOSES OF PASSING AND REPASSING TO THE INTERSTATE HIGHWAY EXISTS TO THE BENEFIT OF LOT 43 OVER LAND OF

HE CITY PLANNING BOARD GRANTED SITE PLAN APPROVAL FOR THIS PROPERTY ON JUNE 23, 2022. A ONE YEAR EXTENSION WAS GRANTED AT THE JUNE 15, 2023 PLANNING BOARD MEETING. (LU-22-81)



LOCUS PLAN

EXISTING STRUCTURES

CATCH BASIN

CB 3

RIM EL. 27.93 INV. IN 21.61 (±20" PIPE) SW INV. OUT 20.58 (±20" PIPE) NE

CB 2 RIM EL. 29.46 INV. OUT 25.81 (12" CMP) SE

RIM EL. 29.19 INV. IN 22.84 (12" CMP) SW INV. IN 22.74 (12" CMP) NE INV. IN 22.83 (24" RCP) NW INV. OUT 22.66 (24" RCP) SE

CB 4 RIM EL. 30.48 INV. IN 18.20 (±20") SM INV. IN 18.20 (24" RCP) NW INV. OUT 18.15 (24") NE

AMENDMENTS

- REVISED CATCH BASIN ELEVATIONS
- ADDED NOTE 6 TO OUTLINE PB APPROVAL AND EXTENSION OF THIS PROJECT.



ISSUE 6 AMENDMENTS

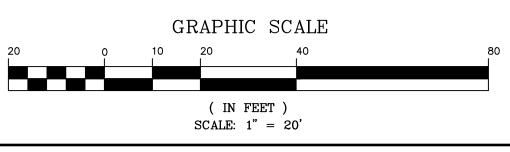


ISSUE 7 AMENDMENTS



ISSUE 8 AMENDMENTS

I) "SITE PLAN FOR HENRY S. DUTKOWSKI MOMMA D'S CASA DI PASTA, 806 US ROUTE | BYPASS & STARK STREET" BY MILLETTE, SPRAGUE & COLWELL, INC.



8	6/11/2024	REVISIONS	
7	6/4/2024	REVISIONS	
6	5/17/2024	REVISIONS	
5	5/22/2023	REVISIONS	
4	5/25/2022	FOR PB	
3	4/26/2022	FOR TAC	
122.	DATE	DESCRIPTION OF ISSUE	
SCA	LE 1" - 20'		

1" = 20' CHECKED A.ROSS I.C.A. CHECKED

ROSS ENGINEERING, LLC

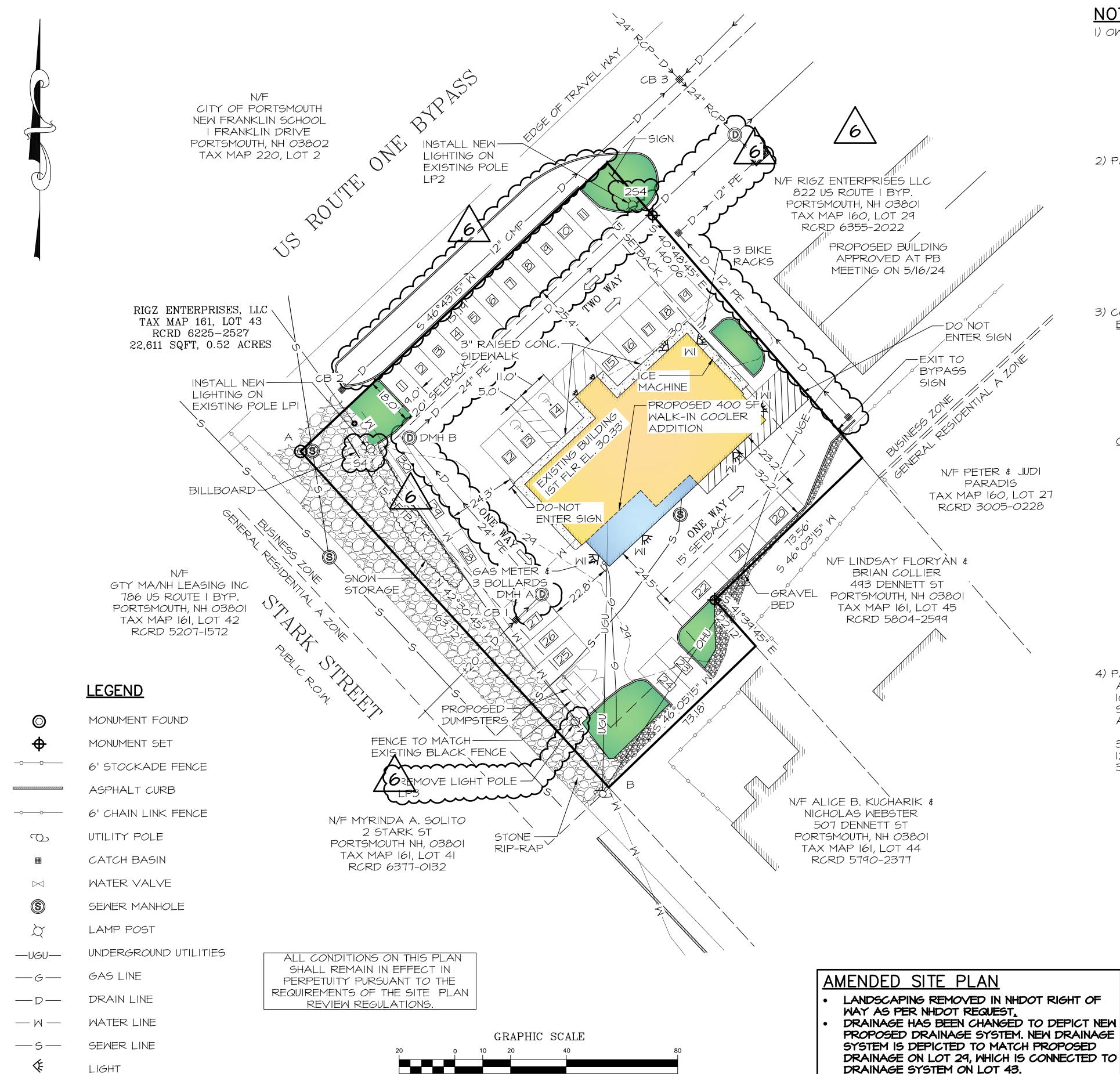
Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560

RIGZ ENTERPRISES LLC 18 DIXON LANE DERRY, NH 03038

EXISTING CONDITIONS PLAN

806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43

DWG. N□. 21-072 | 1 OF 7 | 8



(IN FEET)

SCALE: 1" = 20'

CLEANOUT

NOTES

I) OWNER OF RECORD:
RIGZ ENTERPRISES
IS DIXON LANE
DERRY, NH 03038

TAX MAP 161, LOT 43 806 US ROUTE | BYPASS PORTSMOUTH, NH 03801 RCRD: 6225-2527 AREA: 22,611 SF, 0.52 ACRES

2) PARCEL IS IN BUSINESS ZONE (B):

MINIMUM LOT AREA.

MIN. LOT AREA PER DWELLING UNIT2,500 SF MINIMUM FRONTAGE. ...I*OO* FT MINIMUM DEPTH80 FT SETBACKS: FRONT. .20 FT SIDE. ..15 FT REAR. ..15 FT MAXIMUM BUILDING HEIGHT. ..50 FT MAXIMUM BUILDING COVERAGE ..35% MINIMUM OPEN SPACE.

.20,000 SF

3) COVERAGES:

BUILDING COVERAGE
EXISTING BUILDING COVERAGE

 BUILDING & COOLER
 3,042 SF

 EXISTING STRUCTURE
 3,042 SF

 BUILDING COVERAGE= 3,042 / 22,611 = 13.5%

PROPOSED BUILDING COVERAGE

BUILDING & COOLER 3,442 SF BUILDING COVERAGE 3,442 / 22,611 = 15.2%

OPEN SPACE

EXISTING OPEN SPACE

PROPOSED OPEN SPACE

4) PARKING SPACES:

REVISED LIGHTING CALLOUTS ON THE PLAN.

AS PER PORTSMOUTH ZONING ORDINANCE

10.1112.321, PARKING SPACES FOR RETAIL USE

SHALL BE I SPACE PER 300 SF GROSS FLOOR

AREA.

3,442 SF / 300 SF/SPACE = 11.47 = 12 SPACES 12 SPACES REQUIRED 30 SPACES PROVIDED

- 5) THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
- 6) 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.
- 7) ALL PROPOSED CURBING TO BE ASPHALT AND MATCH EXISTING. MINIMUM 5" REVEAL.

8) GIS COORDINATES OF TWO LOT CORNERS

NORTHING EASTING
A - NW CORNER 211322.113 1222327.652
B - SW CORNER 211202.419 1222439.356

9) PLANNING BOARD APPROVAL FOR 822 US
ROUTE I BYPASS WAS GRANTED ON MAY 16,
2024 AND IS SHOWN IN A NOTICE OF DECISION
LETTER DATED MAY 23, 2024. ACCESS WAY
AND DRAINAGE EASEMENTS FOR THIS
PROPERTY ARE SHOWN IN THE APPROVED
PLAN SET. MEASURES SHALL BE TAKEN BY THE
OWNER TO ENSURE THAT ALL DRAINAGE AND
ACCESS EASEMENTS ON BOTH 806 AND 822
US ROUTE I BYPASS WORK IN CONJUNCTION
WITH EACH OTHER AND ARE PROPERLY
RECORDED.



WAIVERS

I) A WAIVER WAS GRANTED BY THE
PORTSMOUTH PLANNING BOARD ON JUNE
23, 2022 FROM THE CITY OF
PORTSMOUTH SITE PLAN REVIEW
REGULATIONS SECTION 9.3.5, TO
LOCATE A DUMPSTER 12.2' FROM THE
WESTERN PROPERTY LINE WHERE 20' IS
REQUIRED.

8	6/11/2024	REVISIONS	
7	6/4/2024	REVISIONS	
6	5/17/2024	REVISIONS	
5	5/22/2023	REVISIONS	
4	5/25/2022	FOR PB	
3	4/26/2022	FOR TAC	
ISS.	DATE	DESCRIPTION OF ISSUE	

SCALE 1" = 20'CHECKED A.ROSS

DRAWN D.D.D.

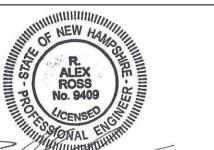
CHECKED

ROSS ENGINEERING, LLC
Civil/Structural Engineering
& Surveying
909 Islington St.
Portsmouth, NH 03801

(603) 433-7560

CLIENT RIGZ ENTERPRISES LLC 18 DIXON LANE DERRY, NH 03038

TITLE



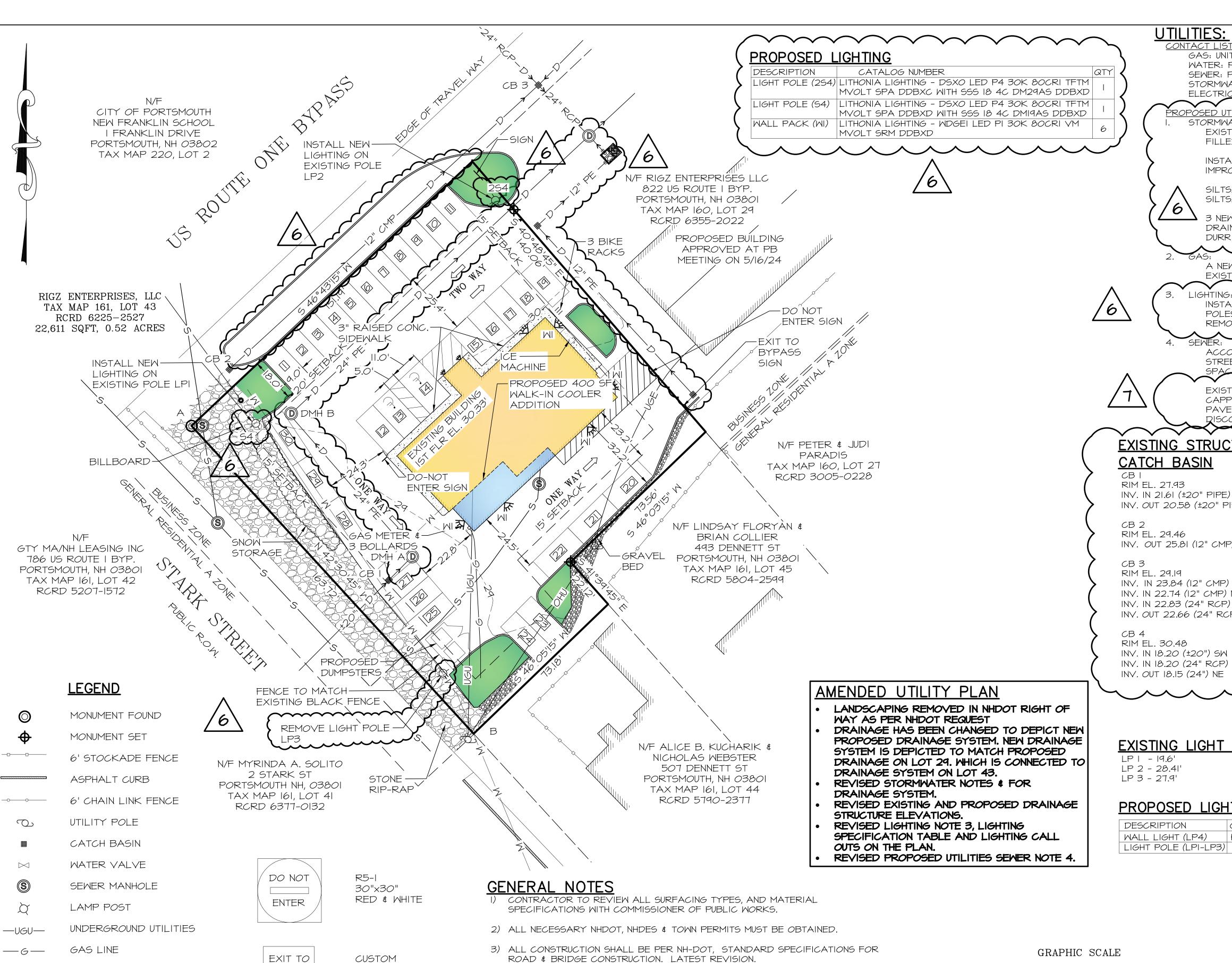
SITE PLAN

806 US-1 BYP.
PORTSMOUTH, NH 03801
TAX MAP 161, LOT 43

DB NUMBER DWG. ND. ISSUE 21-072 2 OF 7 8

CITY OF PORTSMOUTH PLANNING BOARD

CHAIRPERSON DATE



4) CONTRACTOR SHALL MEET STATE AND TOWN REQUIREMENTS. TO ASSURE

5) SIZE ALL LINES AS PER REQUIREMENTS AND ASSURE THAT PROPOSED

UTILITIES SHOWN ARE APPROXIMATE AND MUST BE VERIFIED.

LOADING AND PRESSURE DEMANDS WILL BE MET.

TYPE, SEPARATION, COVER, ETC. ALWAYS CALL DIGSAFE PRIOR TO DIGGING.

20"x20"

SIGN DETAILS

BYPASS

BLACK & WHITE

DRAIN LINE

WATER LINE

SEWER LINE

LIGHT

UTILITIES:

..603-294-5147 GAS: UNITIL: SUSAN L. DUPLISEA .603-427-1530 WATER: PORTSMOUTH DPW: ..603-427-1530 SEWER: PORTSMOUTH DPW: STORMWATER: PORTSMOUTH DPW: ..603-427-1530 ELECTRIC: EVERSOURCE: CASEY MCDONALD603-436-7708 EXT 5641

PROPOSED UTILITIES: STORMWATER:

EXISTING DRAINAGE LINE UNDER THE BUILDING TO BE TAKEN OUT OF SERVICE AND FILLED WITH FLOWABLE FILL CONCRETE.

INSTALL DMH A & DMH B WITH 24" PE PIPING CONNECTING CB I TO THE DRAINAGE IMPROVEMENTS ON LOT 29.

SILTSACKS TO BE INSTALLED ON CATCH BASINS I & 4 PRIOR TO CONSTRUCTION. SILTSACKS TO REMAIN IN PLACE UNTIL DRAINAGE SYSTEM IS FULLY OPERATIONAL

3 NEW CATCH BASINS TO BE INSTALLED ON 822 US ROUTE I BYPASS AS PART OF DRAINAGE IMPROVEMENTS. SILTSACKS TO BE INSTALLED ON THESE CATCH BASINS DURRING CONTRUCTION UNTILL DRAINAGE SYSTEM IS FULLY OPERATIONAL.

A NEW METER WILL BE INSTALLED ON THE SIDE OF THE WALK-IN COOLER. THE EXISTING GAS LINE WILL BE RE-ROUTED TO THE NEW METER

INSTALL THE LIGHTS SHOWN ON THE PROPOSED LIGHTING TABLE ONTO EXISTING POLES LPI AND LP2. REMOVE EXISTING LIGHT POLE LP3.

ACCORDING TO DPW, THE EXISTING SEWER LINE TRAVELS TOWARDS DENNETT STREET. A NEW SEWER LINE SHALL BE INSTALLED TO THE LATERAL BY PARKING

EXISTING SEWER SERVICE TO DENNETT STREET SHALL BE DISCONNECTED AND CAPPED. THIS SHALL BE DONE BEHIND THE CURB SO AS NOT TO DISTURB THE PAVEMENT ON DENNETT ST. CONTRACTOR TO COORDINATE WITH DPW ON

EXISTING STRUCTURES

CATCH BASIN

INV. IN 21.61 (±20" PIPE) SW INV. OUT 20.58 (±20" PIPE) NE

INV. OUT 25.81 (12" CMP) SE

INV. IN 23.84 (12" CMP) SW INV. IN 22.74 (12" CMP) NE INV. IN 22.83 (24" RCP) NW INV. OUT 22.66 (24" RCP) SE

INV. IN 18.20 (±20") SM INV. IN 18.20 (24" RCP) NW

PROPOSED STRUCTURES

CATCH BASIN

RIM EL. 27.93 INV. IN 21.61 (±20" PIPE) SW INV. OUT 21.50 (24" PE) NE - PROPOSED LINE

DRAIN MANHOLE

DMH A RIM EL. 28.50 INV. IN 21.44 (24" PE) SM INV. OUT 21.40 (24" PE) NW STRUCTURE: 5' Ø CONCRETE BASIN

DMH B RIM EL. 29.17 INV. IN 21.00 (24" PE) SE INV. OUT 20.96 (24" PE) NE STRUCTURE: 5' Ø CONCRETE BASIN

8 6/11/2024

DESCRIPTION	CATALOG NUMBER	QUANTITY
WALL LIGHT (LP4)	KT-WPLED60-M2-8XX-VDIM	3
LIGHT POLE (LPI-LP3)	KT-ALEDI40-MI-X-NM-8XX-VDIM	3

7	6/4/2024	REVISIONS
6	5/17/2024	REVISIONS
5	5/22/2023	REVISIONS
4	5/25/2022	FOR PB
3	4/26/2022	FOR TAC
ISS.	DATE	DESCRIPTION OF ISSUE
SCA	1" = 20'	

REVISIONS

SCA	1" = 20'	,	
CHE	A.ROSS		
DRA	WN D.D.D.		
CHE	CKED		

ROSS ENGINEERING, LLC Civil/Structural Engineering & Surveying

909 Islington St. Portsmouth, NH 03801 (603) 433-7560

RIGZ ENTERPRISES LLC 18 DIXON LANE DERRY, NH 03038

TITLE

UTILITY PLAN

806 US-1 BYP. PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43

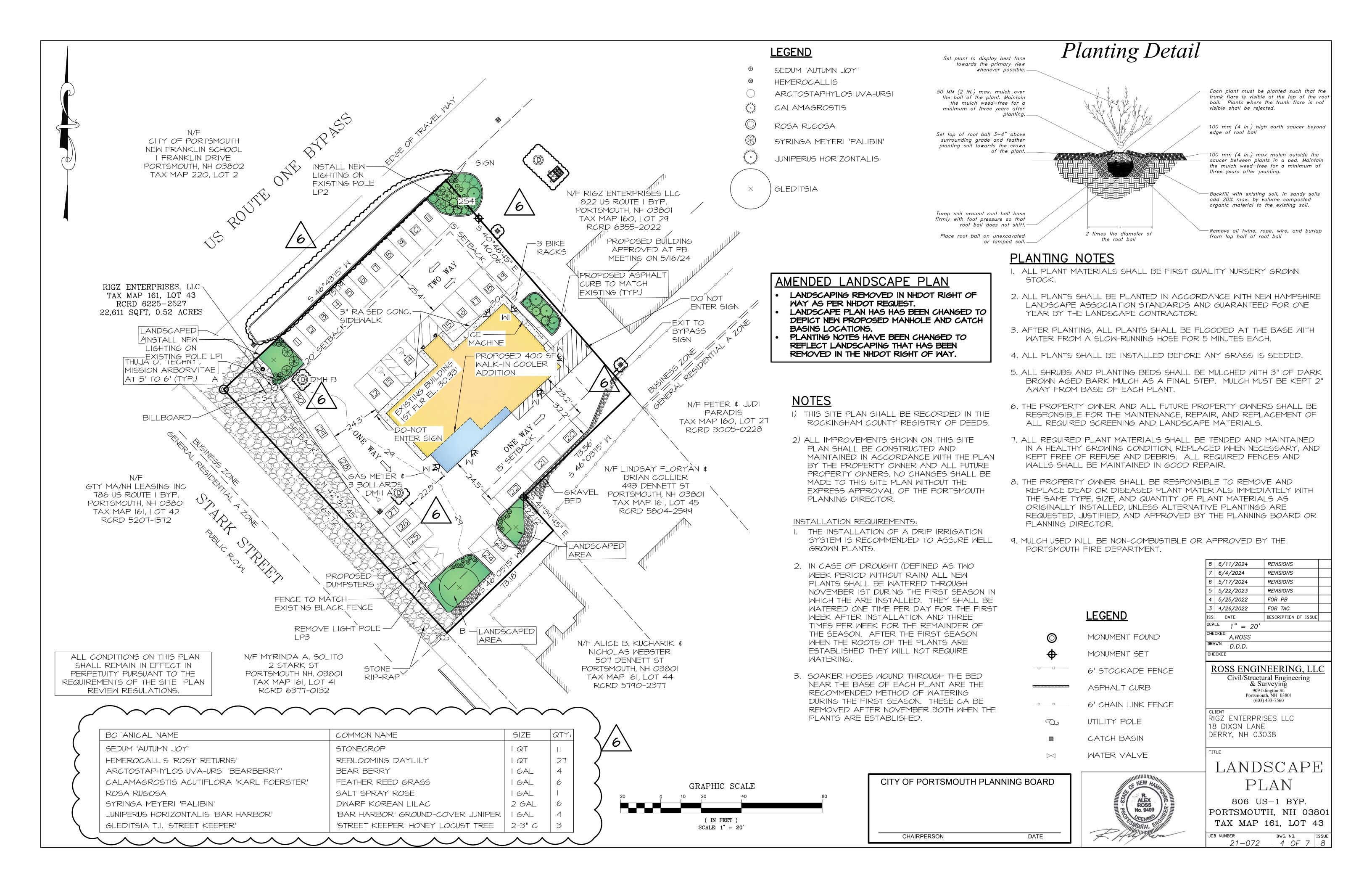
DWG. N□. 21-072 | 3 OF 7 | 8

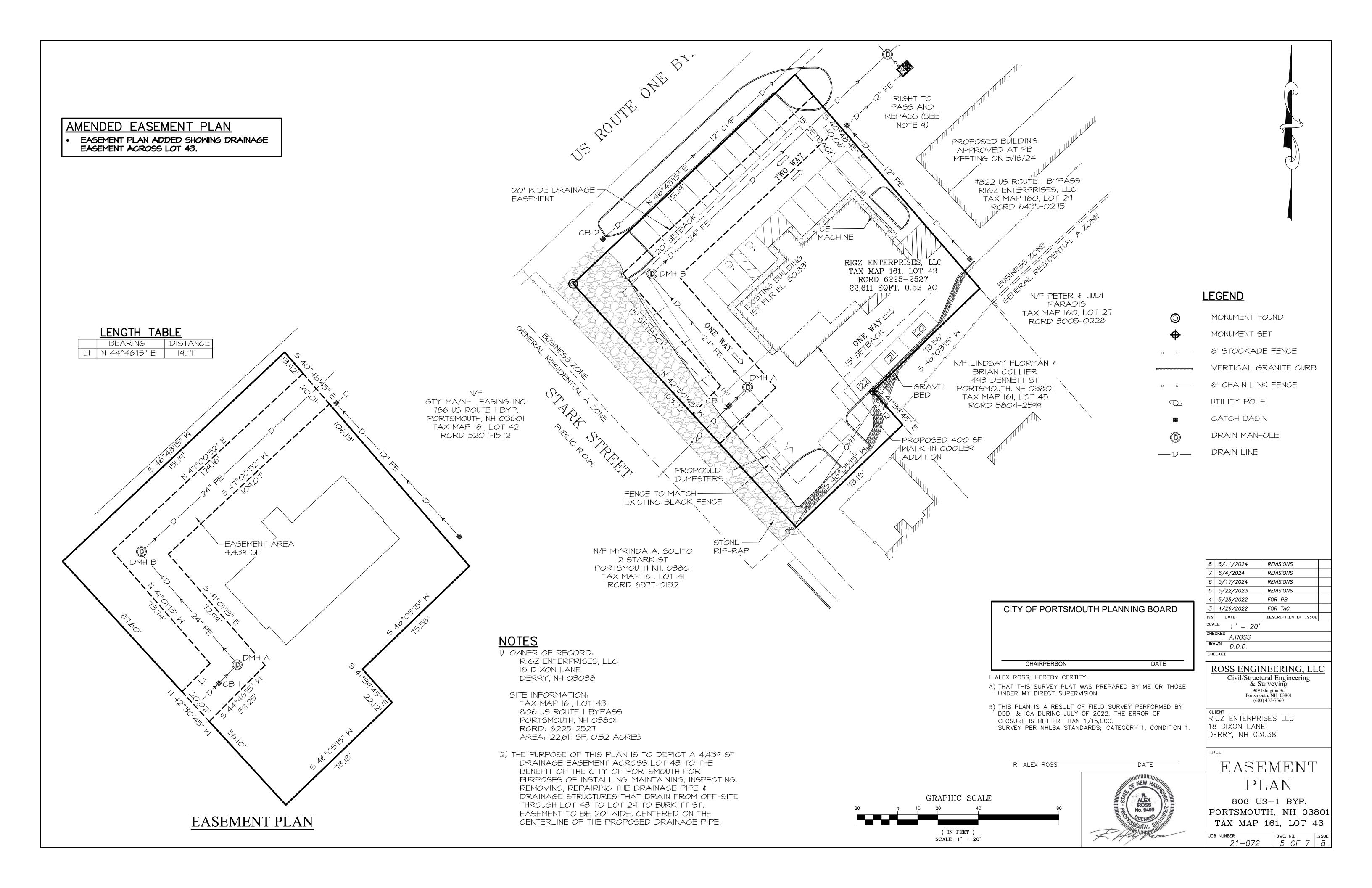
EXISTING LIGHT POLE HEIGHTS

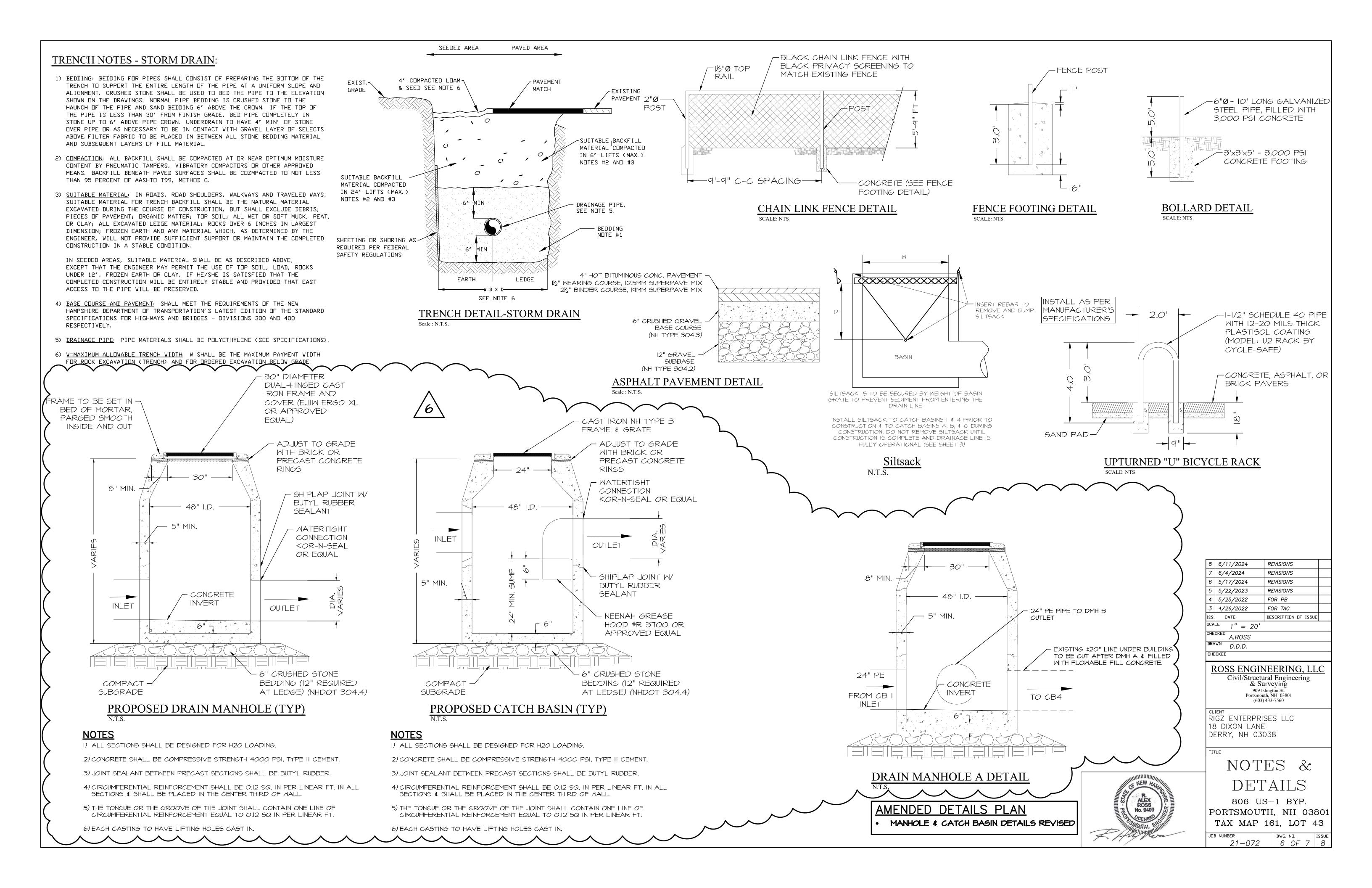
PROPOSED LIGHTING

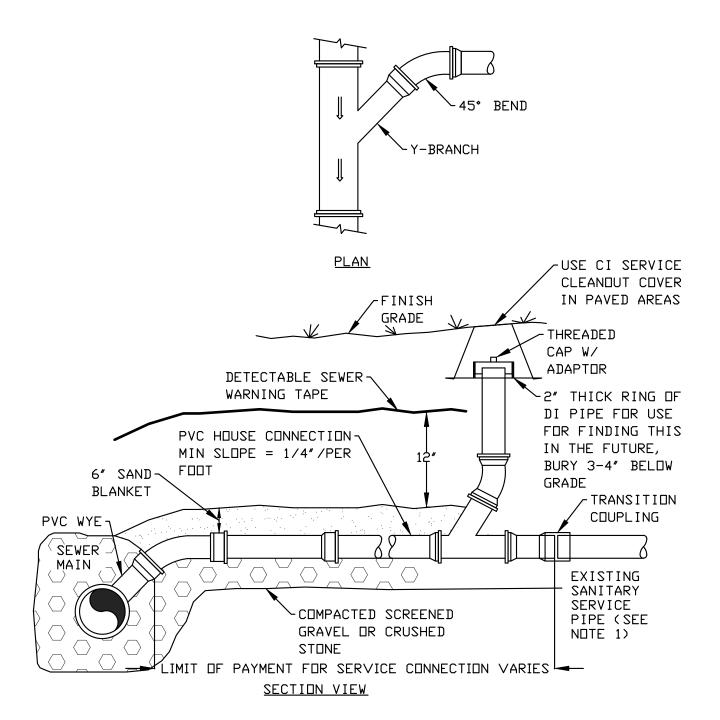
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GRAPHIC SCALE (IN FEET) SCALE: 1" = 20'









TYPICAL SERVICE CONNECTION
Scale: N.T.S.

& SEED SEE NOTE 8 ∽BASE COURSE AND PAVEMENT AND N□TE 11 EXIST. √12″ CRUSHED GRAVEL, ~EXISTING GRADE AS DIRECTED PAVEMENT MECHANICALLY CUT MATERIAL COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS <3' LAYERS MAXIMUM) EXIST. PAVEMENT MATERIAL COMPACTED IN 9" LAYERS (MAX.) SUITABLE MATERIAL └GRAVEL TO MATCH EXIST. SEE NOTE 4 DEPTH AND MATERIAL -W (SEE NOTE 7)-MATERIAL COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS (2" LAYERS MAXIMUM) 2" THICK BY 12" MIN SAND BLANKET 24" WIDE STYROFOAM GINAZ 🕝 SHEET WHERE MATERIAL COMPACTED
IN 12" LAYERS (MAX.) SHOWN ON THE DRAWINGS OR AS DIRECTED ▲ ||| MIN. BEDDING DEPTH IN EARTH AND LEDGE (6") AND PAYMENT DEPTH FOR LEDGE WOOD SHEETING-||EXCAVATION AS REQUIRED SEE NOTE 6 -CRUSHED STONE LEDGE BEDDING YNDN-WOVEN CONSTRUCTION SEE NOTE 1-FABRIC, (WHERE ORDERED) LUNDISTURBED PROVIDE 12" OVERLAP

4" COMPACTED LOAM >

TRENCH DETAIL- GRAVITY SEWER Scale: N.T.S.

GRAVITY SEWER TRENCH NOTES:

- 1) <u>ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE:</u> BACKFILL AS STATED IN THE TECHNICAL SPECIFICATIONS OR AS SHOWN ON THE DRAWINGS.
- 2) <u>BEDDING:</u> SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33. STONE SIZE NO. 67.
 - 100% PASSING 1 INCH SCREEN
 - 0-10% PASSING #4 SIEVE 90-100% PASSING 3/4 INCH SCREEN
 - 0-5% PASSING #8 SIEVE
- 20-55% PASSING 3/8 INCH SCREEN
 WHERE DRDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL DR
 CRUSHED STONE 1-1/2 INCH TO 1/2 INCH SHALL BE USED.
- 3) <u>SAND BLANKET:</u> CLEAN SAND FREE FROM ORGANIC MATTER, SO GRADED THAT 90-100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS A #200 SIEVE. NO STONE LARGER THAN 2° SHOULD BE IN CONTACT WITH THE PIPE.
- 4) SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS; PIECES OF PAVEMENT; ORGANIC MATTER; TOP SOIL; ALL WET OR SOFT MUCK, PEAT, OR CLAY; ALL EXCAVATED LEDGE MATERIAL; ALL ROCKS OVER 6 INCHES IN LARGEST DIMENSION; AND ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION. IN CROSS-COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK, OR PEAT, IF HE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER FOR MAINTENANCE AND POSSIBLY RECONSTRUCTION, WILL BE PRESERVED.

- 5) <u>BASE COURSE AND PAVEMENT</u> SHALL MEET THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DIVISIONS 300 AND 400 RESPECTIVELY AND LOCAL REGULATION.
- WOOD SHEATHING, IF REQUIRED: WHERE SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION 1 FOOT ABOVE THE TOP OF PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW FINISHED GRADE, NUT NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE.
- 7) W = MAXIMUM ALLOWABLE TRENCH PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES. FOR PIPES GREATER THAN 12 INCHES IN NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE OUTSIDE DIAMETER (O.D.) ALSO, W SHALL BE THE PAYMENT WIDTH.
- 8) <u>FOR CROSS COUNTRY CONSTRUCTION,</u> BACKFILL OR FILL SHALL BE MOUNDED TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 9) <u>CONCRETE FOR ENCASEMENT</u> SHALL CONFORM TO THE REQUIREMENTS OF SECTION 520, (NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- 10) <u>CONCRETE FULL ENCASEMENT:</u> IF FULL ENCASEMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4" MINIMUM). BLOCK SUPPORT SHALL BE SOLID CONCRETE BLOCKS.
- 11) GRAVEL DRIVEWAY AND SHOULDER RESTORATION: CRUSHED GRAVEL IN DRIVEWAYS AND ROAD SHOULDERS SHALL MATCH EXISTING WITH A MINIMUM OF 12". GRAVEL REPLACEMENT SHALL BE SUBSIDIARY TO SEWER CONSTRUCTION AND WILL NOT BE MEASURED FOR PAYMENT.

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122.	DATE	DESCRIPTION OF ISSUE	

SCALE 1" = 20'CHECKED A.ROSS

DRAWN D.D.D.

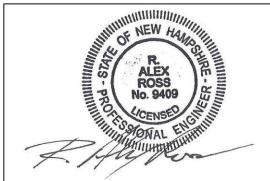
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ROSS ENGINEERING, LLC
Civil/Structural Engineering
& Surveying
909 Islington St.
Portsmouth, NH 03801
(603) 433-7560

RIGZ ENTERPRISES LLC 18 DIXON LANE DERRY, NH 03038

TIT

SEWER



NOTES

NUILS 806 US-1 BYP.

PORTSMOUTH, NH 03801 TAX MAP 161, LOT 43

NUMBER DWG. ND. ISSUE 21-072 7 OF 7 8

