



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: _____ Date Submitted: _____


Application # (in City's online permitting): _____

Site Address: _____ Map: _____ Lot: _____

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)
<input type="checkbox"/>	Complete application form submitted via the City's web-based permitting program	
<input type="checkbox"/>	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.	

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
<input type="checkbox"/>	Basic property and wetland resource information. (10.1017.21)	
<input type="checkbox"/>	Additional information required for projects proposing greater than 250 square feet of permanent or temporary impacts. (10.1017.22)	
<input type="checkbox"/>	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)	
<input type="checkbox"/>	Balance impervious surface impacts with removal and/or wetland buffer enhancement plan. (10.1017.24)	

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
<input type="checkbox"/>	Wetland buffer enhancement plan. (10.1017.25)	
<input type="checkbox"/>	Living shoreline strategy provided for tidal wetland and/or tidal buffer impacts. (10.1017.26)	
<input type="checkbox"/>	Stormwater management must be in accordance with Best Management Practices including but not limited to: 1. <i>New Hampshire Stormwater Manual, NHDES, current version.</i> 2. <i>Best Management Practices to Control Non-point Source Pollution: A Guide for Citizens and City Officials, NHDES, January 2004.</i> (10.1018.10)	
<input type="checkbox"/>	Vegetated Buffer Strip slope of greater than or equal to 10%. (10.1018.22)	
<input type="checkbox"/>	Removal or cutting of vegetation, use of fertilizers, pesticides and herbicides. (10.1018.23/10.1018.24/10.1018.25)	
<input type="checkbox"/>	All new pavement within a wetland buffer shall be porous pavement. (10.1018.31)	
<input type="checkbox"/>	An application that proposes porous pavement in a wetland buffer shall include a pavement maintenance plan. (10.1018.32)	
<input type="checkbox"/>	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)	
<input checked="" type="checkbox"/>	Requested Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)
<input type="checkbox"/>	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.	
<input type="checkbox"/>	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.	

Applicant's Signature:  Date: _____

July 9, 2025

Samantha Collins, Chair
City of Portsmouth Conservation Commission
1 Junkins Avenue
Portsmouth, NH 03801

Re: Response to Comments | City of Portsmouth Wetland Conditional Use Permit Request | Tax Map 255, Lot 2 | 0 Banfield Road (with frontage on Peverly Hill Road), Portsmouth, New Hampshire

Dear Ms. Collins:

On behalf of the applicant, Chinburg Development, we are pleased to submit this response to comments and suggestions included in a July 3, 2025 Memo, from Kate Homet and Peter Britz, to the Conservation Commission Members in preparation for the July 9, 2025 meeting. The comments and suggestions are included below in *Italics*, followed by our responses in **Bold** text.

This application is for the installation of residential driveways, underground utility piping, and at-grade stormwater management BMPs for an undeveloped site that is to be subdivided and developed into five single-family residential properties. This project proposes 6,676 s.f. of permanent disturbance to the 100' wetland buffer.

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

This land within the wetland buffer is previously undeveloped land and is adjacent to a major road. The addition of new impervious surfaces to this buffer will increase the untreated stormwater flow into the wetland across the street. Rain gardens are proposed but it is unclear how the stormwater from the driveway runoff could go uphill into the proposed systems.

Based on discussions at the Conservation Commission site walk meeting on Wednesday, July 2, 2025, the applicant is proposing to eliminate the individual driveway for Lot 5 and instead, propose a shared driveway for Lots 3, 4, and 5. This will limit the amount of new impervious area and grading impacts within the wetland buffer area adjacent to Banfield Road. The use of pervious pavement and other stormwater management features will minimize the amount of untreated stormwater runoff entering the Banfield Road right-of-way.



It is important to point out that stormwater runoff from the project site does not cross over, or under Banfield Road. Runoff entering the north side of Banfield Road flows in a northeasterly direction and eventually enters the existing multi-culvert crossing under Peverly Hill Road, at its intersection with Banfield Road.

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

Applicant is looking to create driveways for future lots. It appears there may be an opportunity to weave one shared driveway between the two 100' wetland buffer lines for Lot 3, 4 and 5.

The location of the currently proposed, shared driveway for Lots 3, 4, and 5 is based on safety standards associated with stopping sight distance requirements. If the driveway entrance were to be located any closer to the intersection of Peverly Hill and Banfield Roads, it would not meet traffic safety standards. Access to Lots 3, 4, and 5 from Peverly Hill Road would require significant impacts to, and crossing of, the prime wetland and stream on the property. Given these situations, we believe there is no alternative location for the shared driveway outside of the wetland buffer.

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

Impacts to the buffer include new impervious surfaces and construction of new utility and stormwater services. Applicant needs to show how stormwater runoff on site will be retained and treated. Current stormwater plans need to be finalized, and an erosion control plan must be provided.

adfadf

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

The construction of the new services and driveways will likely have impacts on the existing tree line along Banfield and Peverly Hill Road. Applicant should clearly mark the trees to remain and to be removed on the plan set.

We have added labels to the plans to show which existing trees will remain and which will likely be removed.

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



This project proposes impacts to a previously undeveloped area. It is not the proposal with the least adverse impacts.

The project site is located within the Single Residence A (SRA) Zoning District which was created to provide areas for single-family dwellings at low to medium densities and appropriate accessory uses. The proposed subdivision is an allowed use within the SRA District and will be required to meet current zoning regulations to be eligible for approval from the Planning Board. The applicant has limited the project's proposed impacts to the wetland buffer area by limiting the number of driveway entrances to one and limiting the proposed building envelopes to areas outside of wetland buffer limits.

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

A planting plan is needed to determine this.

The project site is located approximately 38 feet away, and across Banfield Road from, the wetland that is the source of the wetland buffer (source wetland). It is our understanding that the vegetated buffer strip is typically located within twenty-five feet of the source wetland and can be pushed out to 40 feet if steep slopes are adjacent to the source wetland. In either case, the proposed project is not proposing to remove or replace any vegetation within the vegetated buffer strip section of the wetland buffer.

Recommendation: Staff recommends postponement of this application to give the applicant time to address the following issues:

1. *Wetland delineation shall be certified and stamped by a NH Certified Wetland Scientist (CWS).*

Notes on the Subdivision Plan indicate that the wetland limits within the project site were delineated by a NH Certified Wetland Scientist from Haley Ward, Inc. The off-site wetlands are based on information provided by Gove Environmental Services, Inc. Signatures and letters regarding these delineations, as well as functions and values are attached.

2. *Applicant should explore alternative plan with one shared driveway entering Lot 3 between the buffer setbacks to provide access to Lots 4 and 5.*

The only area that is outside of a wetland buffer, and adjacent to Banfield Road, AND part of the project parcel is too close to the intersection of Peverly Hill and Banfield Roads to be considered a safe access point. We are proposing the new driveway entrance near the proposed lot line between Lots 3 & 4 because it is a safe distance from the intersection, has adequate sight distance in both directions, and has the shallowest slopes within the Banfield Road frontage of the site. This minimizes grading and stormwater management impacts, which minimizes impacts to existing vegetation within the wetland buffer.



3. *Exact dimensions, location and a detail sheet are needed for the proposed rain gardens.*

We will provide detailed information...

4. *Erosion and sediment control plans must be included in this application, not just the building permit phase.*

An Erosion and Sedimentation Control Plan has been created for this project and is attached for your review.

5. *Application checklist is not complete, please address how this application complies with the following sections in the City of Portsmouth Zoning Ordinance:*

a. 10.1017.24, b. 10.1017.25, c. 10.1018.31, d. 10.1018.32, e. 10.1018.40

Please see updated checklist.

6. *Applicant should propose buffering or protection along each of the lots that protects the natural vegetated state of the prime wetland and its 100' buffer to the rear of the site.*

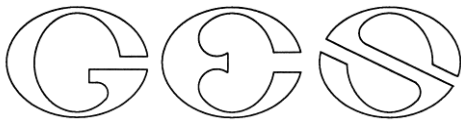
The Subdivision Plan indicates the boundaries of the wetlands and associated buffers. The building setback lines are shown to be outside of the wetland buffer limits. Notes indicating the existence of the buffers and wetlands are included on the plan as well. Future lot owners will be subject to following zoning regulations, including those related to the wetlands and associated buffer areas.

7. *Applicant shall include a planting plan in the plan set. This should also show vegetation to remain and to be removed.*

The plans have been updated to show vegetation to remain and to be removed within the wetland buffer area.

8. *Applicant must clearly define and address areas to be filled and areas to be regraded on the plans.*

The Grading Plan has been updated to show the proposed grading associated with the proposed driveway and single-family housing for each lot. Any changes in grade have been considered in the calculation of proposed wetland impacts.



GOVE ENVIRONMENTAL SERVICES, INC.

June 30, 2025

To: Jon Whitten Jr.
Senior Project Manager
Haley Ward

Subject: Residential Subdivision
0 Banfield Road, Portsmouth, Tax Map 255 Lot 2

Re: Off-site Wetland Functions and Values Evaluation

Jon,

Per your request, this letter provides an assessment and analysis of the functions and values of an identified off-site wetland system located on Banfield Road. At the City's request, this wetland was previously documented using the methodology outlined in the letter dated May 21, 2025. As there are no direct impacts proposed to this wetland, the analysis focuses on potential impacts to its buffer that may result from the construction activities associated with the proposed residential subdivision at 0 Banfield Road in Portsmouth, identified as Tax Map 255, Lot 2. The buffer for this wetland is defined in the City of Portsmouth's Zoning Ordinance, dated May 5, 2025, which designates a 100-foot buffer to this wetland, which extends onto the subject property.

A wetland assessment was conducted using the US Army Corps Highway Methodology guidelines. Functions are self-sustaining properties of wetlands which exist in the absence of human involvement. Values refers to the benefits gained by society from a given wetland or ecosystem by their inherent functions. Functions and values identified as "primary" have been determined to be significant features of the wetland being evaluated. An important distinction is that the primary functions and values of a particular wetland don't necessarily indicate the wetland supports them at a significant *level* in comparison to other wetlands in the region or even near the site.

The Highway Methodology considers 13 functions and values:

1. **Groundwater recharge/discharge:** This function considers the potential for a wetland to serve as a groundwater recharge and/or discharge area. Recharge should relate to the potential for the wetland to contribute water to an aquifer. Discharge should relate to the potential for the wetland to serve as an area where ground water can be discharged to the surface.
2. **Floodflow Alteration:** This function considers the effectiveness of the wetland in reducing flood damage by attenuation of floodwaters for prolonged periods following precipitation events.
3. **Fish and Shellfish Habitat:** This function considers the effectiveness of seasonal or permanent water bodies associated with the wetland in question for fish and shellfish habitat.
4. **Sediment/Toxicant/Pathogen Retention:** This function reduces or prevents degradation of water quality. It relates to the effectiveness of the wetland as a trap for sediments, toxicants or pathogens.



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5. **Nutrient Removal/Retention/Transformation:** This function relates to the effectiveness of the wetland to prevent adverse effects of excess nutrients entering aquifers or surface waters such as ponds, lakes, streams, rivers or estuaries.
6. **Production Export:** This function relates to the effectiveness of the wetland to produce food or usable products for human, or other living organisms.
7. **Sediment/Shoreline Stabilization:** This function relates to the effectiveness of a wetland to stabilize stream banks and shorelines against erosion.
8. **Wildlife Habitat:** This function considers the effectiveness of the wetland to provide habitat for various types and populations of animals typically associated with wetlands and the wetland edge. Both resident and or migrating species must be considered.
9. **Recreation:** This value considers the effectiveness of the wetland and associated watercourses to provide recreational opportunities such as canoeing, boating, fishing, hunting and other active or passive recreational activities. Consumptive opportunities consume or diminish the plants, animals or other resources that are intrinsic to the wetland, whereas non-consumptive opportunities do not.
10. **Educational/Scientific Value:** This value considers the effectiveness of the wetland as a site for an “outdoor classroom” or as a location for scientific study or research.
11. **Uniqueness/Heritage:** This value relates to the effectiveness of the wetland or its associated water bodies to produce certain special values. Special values may include such things as archeological sites, unusual aesthetic quality, historical events, or unique plants, animals, or geological features.
12. **Visual Quality/Aesthetics:** This value relates to the visual and aesthetic qualities of the wetland.
13. **Threatened or Endangered Species Habitat:** This value relates to the effectiveness of the wetland or associated water bodies to support threatened or endangered species.

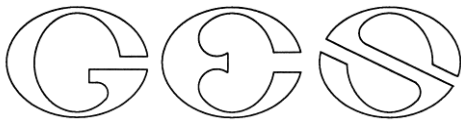
The results of the functional assessment are summarized in the table below. The Highway Methodology data forms are also attached.

Table 2—Wetland Function & Value Summary

Wetland ID	Principle Function(s)	Justification/Discussion
A	Groundwater Recharge/Discharge Floodflow Alteration Fish and Shellfish Habitat, Sediment and Toxicant Removal Nutrient Removal Sediment and Shoreland Stabilization Wildlife Habitat	The identified wetland is a large wetland system based on aerial review extending to the south of Banfield Rd, containing areas of emergent wetland and areas of ponding and open water. These areas of slow-moving water and dense vegetation adjacent to areas with potential sources of excess sediment & nutrients provide areas that can retain and utilize both.

Functional Assessment Relative to Proposed Development

As outlined above, the purpose of this functions and values assessment is to evaluate the potential impacts to the wetland system resulting from the proposed residential subdivision. Since the development associated with the subdivision does not involve direct impacts to



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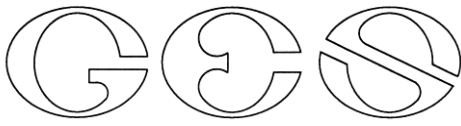
jurisdictional wetlands, the assessment focuses on the potential impacts to the wetland buffer, as defined by the applicable local zoning ordinances for inland and tidal wetlands.

Wetland buffers generally serve to protect or enhance the principal functions of the associated wetland systems. Undisturbed buffers typically provide significant water quality benefits through infiltration and natural filtration processes, while also offering secondary benefits to wildlife habitat. At this particular location, there is substantial existing disturbance in the immediate vicinity of the wetland, including surrounding commercial development and the physical separation between the subject property and the off-site wetland.

The wetland system being assessed consists of a ponded/emergent area located south of Banfield Road. It is part of a larger wetland complex that extends further south, with surface water discharging through an outlet structure located on the eastern edge of the pond. The exact discharge point of this outlet structure is unknown. The wetland boundary at the location being reviewed for buffer impacts lies just interior to the existing guardrail (see photo), as identified in previous aerial assessments. This boundary is defined by significant topographic changes that create an abrupt transition into wetland conditions. Although the precise origin of the wetland is unclear, historical aerial imagery confirms the presence of the ponded area and associated wetland system as early as 1970. Principal functions for this wetland were identified to include, Groundwater Recharge/Discharge, Floodflow Alteration, Fish and Shellfish Habitat, Sediment and Toxicant Removal, Nutrient Removal, Sediment and Shoreland Stabilization, Wildlife Habitat. These principal functions are attributed to the permanent water in the wetland, the large area of the system, the ability for the wetland to retain stormwater runoff during rain events and the areas of dense vegetation and slow-moving water able to attain excess sediment and nutrients from runoff. The buffer to this wetland has a small vegetated strip between the approximate wetland boundary and the existing roadway. Beyond this roadway there is another strip of forested vegetation which then transitions to maintained field. With these existing conditions there is no visible signs of degradation to the resource area.

The current proposed design includes impacts to the wetland buffer to allow driveway access to two of the proposed subdivision lots. These impacts total approximately 6,610 square feet and are associated with driveway construction and grading necessary for site access. All impacts are located on the north side of Banfield Road, providing physical separation between the wetland resource area and the proposed areas of disturbance. All construction activities will adhere to current best management practices (BMPs) for erosion control and site stabilization.

Based on the existing site conditions in this area, the nature of the proposed development interior of the buffer, and the documented separation between the subject property and the off-site wetland, the proposed project is not anticipated to adversely affect the identified functions and values of the wetland system. The buffer area extending onto the subject property is already relatively compromised by existing disturbance, most notably Banfield Road, which functions as a physical and hydrologic barrier between the property and the wetland. While the remaining forested/field upland on the subject parcel may provide some general ecological value, it does not appear to play a substantial role in maintaining or enhancing the primary functions of the



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wetland. Therefore, the proposed residential subdivision is not expected to result in measurable degradation of wetland functions or further diminish the performance of the existing, previously disturbed buffer.

This concludes the functions and values assessment for the wetland and associated buffer relative to the 0 Banfield Rd residential subdivision. If there are any questions related to any of the materials provided, please feel free to reach out to me directly by email bwalden@gesinc.biz or phone 207-710-7863.

Sincerely,

Brenden Walden
President & NH CWS 297
Gove Environmental Services, Inc.

Attachments:

Aerial Imagery
ACOE Highway Methodology
Buffer Impact Plan Sheet
Photo Log



GOVE ENVIRONMENTAL SERVICES, INC.

AERIAL IMAGERY





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ACOE HIGHWAY METHODOLOGY

Wetland Function-Value Evaluation Form

Total area of wetland _____ Human made? _____ Is wetland part of a wildlife corridor? _____ or a "habitat island"? _____

Adjacent land use _____ Distance to nearest roadway or other development _____

Dominant wetland systems present _____ Contiguous undeveloped buffer zone present _____

Is the wetland a separate hydraulic system? _____ If not, where does the wetland lie in the drainage basin? _____

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

Wetland I.D. _____

Latitude _____ Longitude _____

Prepared by: _____ Date _____

Wetland Impact:

Type _____ Area _____

Evaluation based on:

Office _____ Field _____

Corps manual wetland delineation completed? Y _____ N _____

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge				
 Floodflow Alteration				
 Fish and Shellfish Habitat				
 Sediment/Toxicant Retention				
 Nutrient Removal				
 Production Export				
 Sediment/Shoreline Stabilization				
 Wildlife Habitat				
 Recreation				
 Educational/Scientific Value				
 Uniqueness/Heritage				
 Visual Quality/Aesthetics				
ES Endangered Species Habitat				
Other				

Notes:

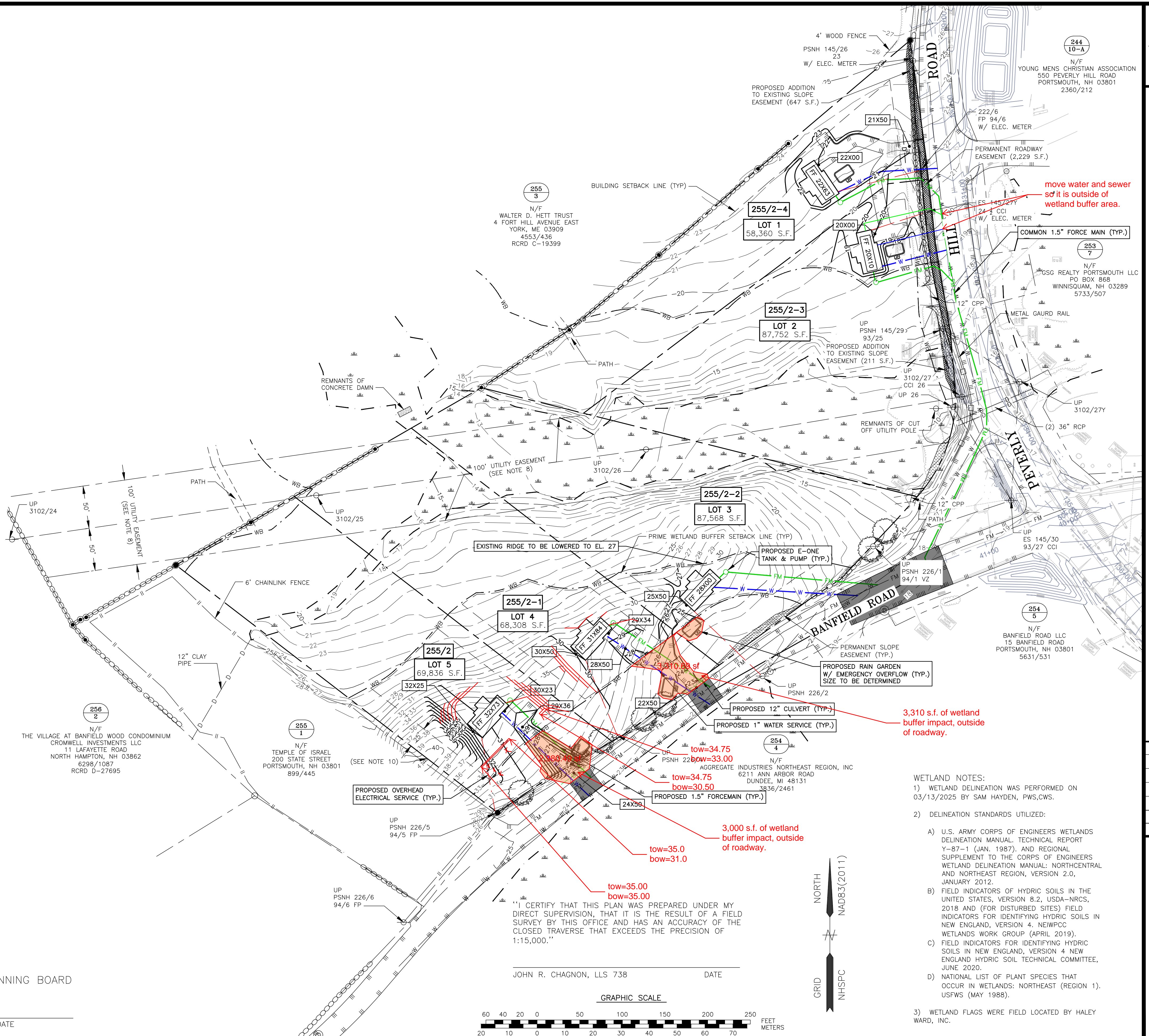
* Refer to backup list of numbered considerations.



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BUFFER IMPACT PLAN SHEET

- NOTES:**
- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN THIRTY DAYS.
 - 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
 - 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).



- WETLAND NOTES:**
- 1) WETLAND DELINEATION WAS PERFORMED ON 03/13/2025 BY SAM HAYDEN, PWS,CWS.
 - 2) DELINEATION STANDARDS UTILIZED:
 - A) U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JAN. 1987). AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHEASTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012.
 - B) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8.2, USDA-NRCS, 2018 AND (FOR DISTURBED SITES) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, NEWPCC WETLANDS WORK GROUP (APRIL 2019).
 - C) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4 NEW ENGLAND HYDRIC SOIL TECHNICAL COMMITTEE, JUNE 2020.
 - D) NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST (REGION 1). USFWS (MAY 1988).
 - 3) WETLAND FLAGS WERE FIELD LOCATED BY HALEY WARD, INC.

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN

DATE

3	GRADING/EASEMENTS	5/21/25
2	UTILITY DESIGN	4/23/25
1	LOTS	3/1/25
0	ISSUED FOR COMMENT	2/12/25
NO.	DESCRIPTION	DATE

REVISIONS

**GRADING PLAN
TAX MAP 255 - LOT 2**

OWNER:
WALTER D. HETT
BANFIELD ROAD &
PEVERLY HILL ROAD
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE

SCALE: 1"=60'

JANUARY 2025

FB 499 & PG 1

5010220



GOVE ENVIRONMENTAL SERVICES, INC.

PHOTO LOG



GOVE ENVIRONMENTAL SERVICES, INC.

Photo Log
0 Banfield Rd, Portsmouth, NH
Taken: 5/13/25



Photo #1: Looking to the east along Banfield Rd and the subject property.



Photo #2: Looking to the south east along Banfield Rd separating the subject property and the resource area.



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Photo #3: Looking at the emergent vegetation present interior of the off site wetland.



Photo #4: Looking to the west along Banfield Rd separating the subject property and the resource area.



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Photo #5: Looking at the ponded area of the off site wetland.



Photo #6: Another view of the emergent portion of the wetland.



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Photo #7: Looking at the open water and the emergent vegetated area noting the small vegetated strip between the wetland and the roadway.



EROSION AND SEDIMENTATION CONTROL PLAN

- A. Narrative. The proposed construction will require the implementation of temporary and permanent erosion control measures. These measures will be implemented in accordance with the New Hampshire Stormwater Manual, Volume 3, prior to removal of any on-site vegetation or disturbance of any on-site soil. The general erosion and sediment control specifications and details, as provided within this section, are intended to describe measures to be used by contractors working on the site to maintain compliance with the standards established in the BMPs. These standards include information on temporary and permanent erosion control measures, rates of seeding and applied mulch, slope and soil stabilization, effect of construction schedule, and other details.

The proposed location and use of erosion control measures on-site are shown on the proposed plan. There are no known existing erosion control concerns with the site. Implementation of proper erosion control measures will be required by site conditions to confine sediment and debris within the limit of soil disturbance. Proper use and maintenance of erosion control measures will provide protection against off-site transport of sediment and discharge of sediment to undisturbed areas of the development.

- B. Completion Date. Fall 2025
- C. Site Features. For site features please refer to the enclosed plan.
- D. Temporary and Permanent Erosion Control Measures. For temporary and permanent erosion control measures please refer to the enclosed plan.
- E. Limits of Disturbed Areas. Areas of disturbance will be limited to the proposed work shown on the enclosed plan.
- F. Design Drawings and Specifications. For design drawings please refer to the enclosed plan. The following specifications will be utilized by the site contractor during construction of the project.



EROSION CONTROL PLAN SPECIFICATIONS

A. General

1. All work and measures will be as per the New Hampshire Stormwater Manual, Volume 3.
2. The following specifications will be employed.

B. Prior to Construction

1. Prior to the beginning of construction, erosion and sedimentation controls shall be in place.

C. During Construction

1. Exposed soil surfaces will be treated immediately if they are to remain ungraded more than 30 days, or if they are at final grades.
2. Drainage ways, either designed or incidental, will have filter barriers installed.
3. All work and materials necessary to minimize sediment loss from the site will be provided.
4. All erosion control measures will be inspected and repaired after every rainfall greater than ½-inch and at least daily during rain events lasting longer than 24 hours.

D. Post Construction

1. Erosion control measures will be maintained until permanent soil stabilization has been achieved with a growth of vegetation greater than 90%.



SOIL PROTECTION AND EROSION CONTROL

PART 1 - GENERAL

1.01 Description of Work

- A. Provide and maintain devices to control erosion, siltation, sedimentation, and dust that occur during construction operations. Undertake every reasonable precaution and do whatever is necessary to avoid erosion of soil and to prevent silting of wetland areas and drainage ditches.
- B. Provide measures to control dust caused whether on or off the project site.
- C. Deficiencies in erosion control measures indicated by failures or erosion will be corrected as soon as reasonably possible by providing additional measures or different techniques to correct the situation and prevent subsequent erosion.
- D. Exposure of soils on embankments, excavations, and graded areas will be kept as short as possible. Initiate seeding and other erosion control practices as soon as reasonably possible.

1.02 Quality Assurance

- A. Conform to all requirements of applicable Federal, State, and local permits and conform to the recommendations of the New Hampshire Stormwater Manual whether the measures are specifically noted herein, or not.
- B. Standards: New Hampshire Stormwater Manual, hereinafter called Erosion Control Handbook.

PART 2 - PRODUCTS

2.01 **Materials:** Use the following materials to implement and construct erosion control measures.

- A. Silt Soxx: Refer to Construction drawings for detail.
- B. Mulch: Type and use as specified by the Erosion Control Handbook
 - 1. Long fibered hay or straw in dry condition and which are relatively free of weeds and foreign matter detrimental to plant life.
 - 2. Mulch netting: Plastic or nylon mesh netting with approximate openings of 1/4- inch to 1-inch.



- C. Permanent Seeding: Cut and fill slopes and disturbed areas will be stabilized as with a meadow seed mix:

PART 3 - EXECUTION

3.01 Construction

A. Hay Bales:

1. Install as directed by Stormwater M, and stake with required stakes.

B. Mulch:

1. Undertake after each area has been properly prepared.
2. When seed for erosion control is sown prior to placing the mulch, place mulch on the seeded areas within 48 hours after seeding.
3. Blowing chopped mulch will be permitted.
4. Hay mulch should cover the ground enough to shade it, but the mulch should not be so thick that a person standing cannot see the ground through the mulch.
5. Remove matted mulch or bunches.

C. Temporary Erosion Control Matting (where necessary):

1. Surface Preparation:
 - a. Conform to grades for slopes and ditches shown on the drawings.
 - b. Finish to a smooth and even condition with all debris, roots, stones, and lumps raked out and removed.
 - c. Loosen soil surface to permit bedding of the matting.
 - d. Unless otherwise directed, apply seed prior to placement.
2. Installation:
 - a. Place strips lengthwise in the direction of the flow of water.
 - b. Where strips are laid parallel or meet as in a tee, overlap at least four inches.
 - c. Overlap ends at least six inches in a shingle fashion.
 - d. The up-slope end of each strip of the matting will be turned down and buried to a depth of not less than six inches with the soil firmly tamped against it.
 - e. Build check slots at right angles to the direction of the flow of water. Space so that one check slot or one end occurs within each 50 feet of slope length. Construct by placing a tight fold of the matting at least six inches vertically into the ground and tamp the same as up-slope ends.
 - f. Bury edges of matting around the edges of the catch basins and other structures.



- g. Where determined by the Engineers, additional seed will be spread over matting, particularly at those locations disturbed by building the slots. Matting will then be pressed onto the ground with a light lawn roller or by other satisfactory means.
 - h. Drive staples vertically into the ground flush with the surface.
 - i. On slopes flatter than 4:1, space staples not more than three feet and one row, alternately spaced, down the center.
 - j. On grades 4:1 or steeper, place in the same three rows, but spaced two feet apart.
 - k. On all overlapping or butting edges, double the number of staples, with the spacing halved; all ends of the matting and all required check slots will likewise have staples spaced every foot.
- D. Permanent Seeding:
 - 1. Seed with appropriate seeds and application rates as noted in Section 2.01C.
 - 2. Mulch areas where seeding has been applied. Do not mulch seeded areas where matting will be immediately installed.
- E. Topsoil Storage:
 - 1. Topsoil which is stockpiled on the site for use in loam applications will be placed out of natural drainages, in piles that have side slopes of 2:1 to 1.5:1.
 - 2. A trench (depth as required) will be constructed around the base of the pile to prevent eroding soil from washing into drainages.
- F. Dust Control: Utilize the application of sprinkled water to reduce the emission of airborne soil particulates from the Project site.
- G. Temporary Berms: Construct temporary barriers along the toe of embankments using side drains, as necessary.
- H. Temporary Basins: Construct temporary sedimentation basins adequate to avoid siltation of surface water bodies.
- I. Other Temporary Measures:
 - 1. Type and use will be as specified in the Erosion Control Handbook.
- J. Winter Stabilization Notes
 - 1. At this time, it is not expected that significant soil disturbance will occur during winter months or periods of heavy icing. If construction is performed during these times, the following construction practices will be followed.



- a. All disturbed areas not stabilized with stone or other measures will have approved erosion control matting installed and be dormant seeded.
- b. No frozen soil material or material containing significant snow or ice will be used for fill material.
- c. All material stockpiles will have silt fence and/or hay bales installed downgradient of piles.
- d. Follow general erosion control notes described previously wherever possible and as conditions permit.

3.02 Maintenance

- A. Inspect erosion control practices immediately after each rainfall greater than ½- inch and at least daily during rainfall lasting longer than 24 hours or snowmelt for damage. Provide maintenance and make appropriate repairs or replacement.
- B. Remove silt from around hay bales when it has reached one-foot above grade or prior to expected heavy runoff or siltation.
- C. Repair matting if any staples become loosened or raised, or if any matting becomes loose, torn, or undermined, make satisfactory repairs immediately.

3.03 Removal of Temporary Erosion Control

- A. Remove temporary materials and devices when permanent soil stabilization has been substantially achieved. For vegetated areas, substantially complete means 95% vegetated cover has been established.
- B. Level and grade to the extent required to present a sightly appearance and to prevent any obstruction of the flow of water or any other interference with the operation of or access to the permanent works.
- C. Remove unsuitable materials from site and dispose of them in a lawful manner.



INSPECTION AND MAINTENANCE

The following Maintenance Plan will be employed for this facility. Chinburg Development will be responsible for all maintenance. Erosion control measures for this site were designed by:

Drew Olehowski, P.E.
Haley Ward, Inc.
One Merchants Plaza, Suite 701
Bangor, Maine 04401
(207) 989-4824
dolehowski@haleyward.com

A Pre- and Post-Construction Maintenance Plan for the stormwater management system and erosion control measures are included in this section.



MAINTENANCE PLAN

The New Hampshire Stormwater Manual was used as a guideline in the development of this Maintenance Plan. General maintenance requirements are listed below.

A. DURING CONSTRUCTION

The general contractor will be responsible for the inspection and maintenance of all stormwater management system components during construction.

Inspection: Inspection of disturbed and impervious areas, erosion control measures, materials' storage areas that are exposed to precipitation, and locations where vehicles enter or exit the site will be performed at least once a week as well as before and after a storm event, and prior to completing permanent stabilization measures. Inspections shall be conducted by a person with knowledge of erosion and stormwater control, including the standards and conditions in the permit.

Maintenance: All erosion control measures will be kept in effective operating condition until areas are permanently stabilized. If BMPs need to be maintained or modified, additional BMPs are necessary, or other corrective action is needed, implementation will be completed within seven calendar days and prior to any rainfall event.

Documentation: A log shall be kept summarizing the inspections and any corrective action taken. A copy of the log is provided at the end of this section, and is titled, Construction Inspection Log.

B. POST-CONSTRUCTION

The Owner or their assigns will be responsible for the inspection and maintenance of all stormwater management system components.

Inspection and Corrective Action

1. Vegetated Areas/Buffers: Inspections and maintenance of vegetated areas will be performed early in the growing season or after significant rainfall to identify any erosion problems. Areas where erosion is evident will be covered with an appropriate lining, or erosive flows will be diverted to an area able to handle the flows. Any bare areas or areas with sparse growth will be replanted.
2. Ditches, Swales, and Culverts: Inspections and maintenance of ditches, culverts, and swales will be performed in the Spring, late Fall, and after rain events greater than 1-inch in depth to remove any obstructions to flow, to remove any accumulated sediments within the structures, and to repair any erosion of channel linings, check dams, inlet protection, or outlet protection. Vegetated ditches and swales must be mowed no more than twice per year and cut no less than 6-inch in height.



3. Roadways: Gravel roadways will be graded at least twice per year, if needed, to maintain drainage patterns as designed. Inspections and maintenance of the road will be performed in the Spring, late Fall, and after rain events greater than 1-inch in depth to remove any obstructions to flow and to repair any erosion of the road or its side slopes.
4. Documentation: A log will be kept summarizing the inspections, maintenance, and any corrective action taken. A copy of the log is provided at the end of this section, and is titled, BMP Inspection Log.



HOUSEKEEPING

1. Spill Prevention - During construction, controls will be used to prevent pollutants from being discharged from materials on site, including storage practices to minimize exposure of the materials to stormwater, and appropriate spill prevention, containment, and response planning and implementation.
2. Groundwater Protection - During construction, liquid petroleum products and other hazardous materials with the potential to contaminate groundwater will not be stored or handled in areas of the site draining to an infiltration area. Dikes, berms, sumps, and other forms of secondary containment that prevent discharge to groundwater may be used to isolate portions of the site for the purposes of storage and handling of these materials.
3. Fugitive Sediment and Dust - Actions will be taken to ensure that activities do not result in noticeable erosion of soils or fugitive dust emissions during or after construction. Oil will not be used for dust control. Water will be used for dust control during construction.

Operations during wet months that cause mud to be tracked off the site onto public roads will provide sweeping of the road areas at least once per week and prior to significant storm events.

4. Debris and Other Materials - Litter, construction debris, and chemicals exposed to stormwater will be prevented from becoming a pollutant source. The nature of this development will not cause problems related to debris and other materials.
5. Trench or Foundation De-Watering - If de-watering is necessary, the collected water will be removed from the ponded area and spread through natural wooded buffers or discharged into a construction sedimentation basin. The water will not be allowed to flow over disturbed areas to the site.



0 BANFIELD ROAD, PORTSMOUTH, NH CONSTRUCTION INSPECTION LOG

Inspection Date	Inspector (Name and Qualifications)	Major Observations	Work Performed

Notes

- 1) Major Observations include the operation and maintenance of erosion and sedimentation controls, materials storage areas, and vehicle access points to the parcel. Major Observations must include BMPs that need maintenance, BMPs that failed to operate as designed or proved inadequate for a particular location, and locations(s) where additional BMPs are needed. For each BMP requiring maintenance, BMP needing replacement, and location needing additional BMPs, note in the log the corrective action taken and when it was taken.
- 2) Work Performed will include a description of the corrective action taken, the date the corrective action was taken, and the name and qualifications of the person taking the corrective actions
- 3) The log must be made accessible to NHDES staff, and a copy must be provided upon request.
- 4) The permittee shall retain a copy of the log for a period of at least three years from the completion of permanent stabilization.



O BANFIELD ROAD, PORTSMOUTH, NH

BMP INSPECTION LOG

Date	Inspector (Name and Qualifications)	ID Number	BMP Structure	Work Performed	Comments

Notes

- 1) If a maintenance task requires the clean-out of any sediments or debris, indicate where the sediment and debris was disposed after removal.
- 2) BMP structures shall be numbered sequentially and located on attached site map.
- 3) The log must be made accessible to NHDES staff, and a copy must be provided upon request.
- 4) The permittee shall retain a copy of the log for a period of at least five years from the completion of permanent stabilization.



INSPECTION AND MAINTENANCE PLAN FOR STORMWATER MANAGEMENT STRUCTURES (BMPS)		
	INSPECTION SCHEDULE	CORRECTIVE ACTIONS
VEGETATED AREAS	Annually early spring and after heavy rains	Inspect all slopes and embankments and replant areas of bare soil or with sparse growth
		Armor rill erosion areas with riprap or divert the runoff to a stable area
		Inspect and repair down-slope of all spreaders and turn-outs for erosion
		Mow vegetation as specified for the area
DITCHES, SWALES AND OPEN STORMWATER CHANNELS	Annually spring and late fall and after heavy rains	Remove obstructions, sediments or debris from ditches, swales, and other open channels
		Repair any erosion of the ditch lining
		Mow vegetated ditches
		Remove woody vegetation growing through riprap
		Repair any slumping side slopes
GRAVEL ROADWAYS	Twice Per Year	Repair riprap where underlying filter fabric or gravel is showing or if stones have dislodged
		Regrade roadway, as needed, to maintain drainage patterns as designed. Repair any channelization or other signs of erosion as needed.

PRELIMINARY STORMWATER MANAGEMENT PLAN

Project Name: 5-Lot Residential Subdivision at 0 Banfield Road
Project Location: 0 Banfield Road, Portsmouth, New Hampshire 03870
Applicant: Chinburg Builders
Report Prepared by: Haley Ward, Inc., Attn: Drew Olehowski, PE
Date: May 28, 2025

Introduction

This Preliminary Stormwater Management Plan (SMP) has been prepared to comply with the requirements outlined in Chapter 10.1018.10 of the City of Portsmouth Zoning Ordinance. The purpose of this SMP is to manage and treat stormwater runoff from the proposed development site in a manner that minimizes the potential for flooding, erosion, and water quality degradation. The design and implementation of the stormwater management practices will adhere to both local requirements and Best Management Practices (BMPs) to ensure minimal environmental impact. This SMP is to be considered "preliminary;" additional information and details as required by Chapter 10.1018.10 will be provided in a "Final" SWP with the building permit application.

Project Description

The proposed project consists of the creation of five (5) single-family residential lots at 0 Banfield Road. The creation of the lots will not in itself create new developed or impervious area. The eventual construction of residential scale buildings, driveways, utility connections and reasonable lawn areas will introduce new developed and impervious area on each lot.

The site is located at the intersection of Banfield Road and Peverly Hill Road and is currently undeveloped. There is a stream channel with associated wetlands that bisect the property. The site layout has been designed to avoid impacts to the wetland areas and stream.

Stormwater Management Practices:

The applicant is proposing to illustrate typical stormwater management practices to be used during the building permit process to minimize any potential impact of development on stormwater quality, quantity, and erosion and sedimentation. We have included a typical rain "garden" feature near each proposed single-family structure to meet the requirements of the Ordinance. These rain gardens are considered "Low-Impact Development (LID)" stormwater management facilities.

The use of rain garden LID features will mitigate the slight increase in stormwater runoff that is expected to be generated by new driveways and house structures. The rain gardens will collect, detain, and infiltrate runoff in an effort to minimize possible negative stormwater



runoff-related impacts from the proposed development. Runoff flow from the lots, and the raingarden overflows, will continue to flow to the existing wetlands and stream channel within the property limits. Runoff within the stream channel will continue to flow through the existing culverts under Peverly Hill Road.

Erosion and Sediment Control

The construction phase will include an Erosion and Sediment Control Plan to prevent sedimentation of watercourses and receiving bodies. Measures will include:

- Silt fences, sediment traps, and inlet protection at all stormwater discharge points.
- Temporary stabilization of disturbed areas during construction.
- Regular inspections and maintenance to ensure the effectiveness of all erosion control measures.

Erosion and sedimentation control features will be shown on the Building Permit plans.

Conclusion

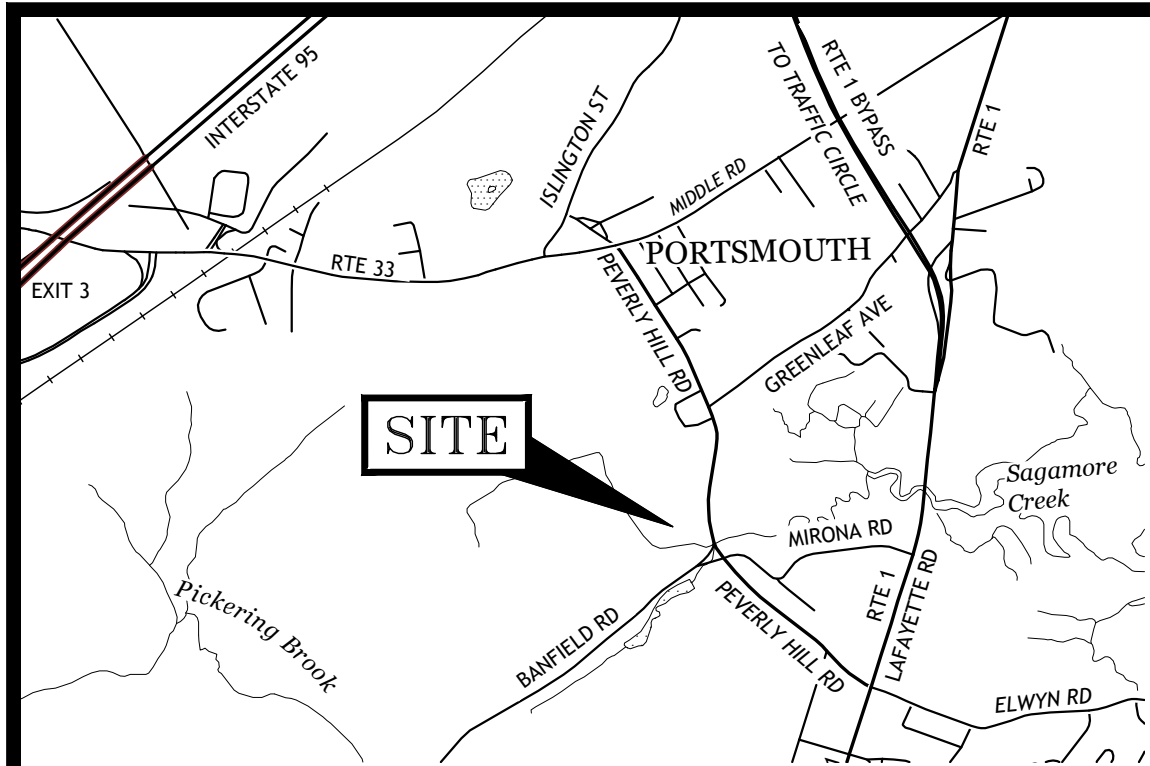
By following the typical stormwater management plan described for this project, the proposed site improvements are expected to be minimal and are not anticipated to adversely impact downstream water bodies or abutters.

Please do not hesitate to contact our office with any questions or comments.

Haley Ward, Inc.

Drew Olehowski, PE
Project Manager

DJO/jok
Attachments



LOCATION MAP

SCALE: 1"=2000'

LEGEND:

N/F	NOW OR FORMERLY
RP	RECORD OF PROBATE
RCRD	ROCKINGHAM COUNTY
11/21	REGISTRY OF DEEDS
4553/432	MAP 11 / LOT 21
DEED BOOK/PAGE	
BOUNDARY	
SETBACK	
IRON ROD/PIPE FOUND	
EDGE OF PAVEMENT	
FRESHWATER WETLAND LINE	
HYDRANT	
OVERHEAD ELECTRIC/WIRES	
CONTOUR	
UTILITY POLE (w/ GUY) (UP)	
FAIR POINT	
EVERSOURCE	
PUBLIC SERVICE OF NEW HAMPSHIRE	
CALCULATED	
ELECTRIC METER	
ELEVATION	
FINISHED FLOOR	
INVERT	
TEMPORARY BENCHMARK	
TYPICAL	
FRESH WATER WETLAND	
TO BE SET	

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 07°44'22" E	30.73'
L2	S 07°44'20" E	105.29'
L3	S 06°18'17" E	28.37'
L4	S 09°33'00" E	104.35'
L5	S 05°03'09" E	24.11'
L6	S 04°55'29" E	37.13'
L7	S 41°59'00" W	34.17'
L8	S 43°13'04" W	97.52'
L9	S 57°03'33" W	42.99'
L10	S 53°54'24" W	131.92'
L11	S 53°54'24" W	136.18'
L12	S 60°03'05" W	17.89'
L13	S 60°03'05" W	87.41'
L14	S 55°32'09" W	70.74'
L15	N 52°24'41" W	475.96'
L16	N 60°14'31" E	100.91'
L17	N 59°28'46" E	59.53'
L18	N 59°28'46" E	109.84'
L19	N 59°58'57" E	49.00'
L20	N 59°58'57" E	94.90'
L21	N 56°42'48" E	123.27'
L22	N 50°09'02" E	136.90'
L23	N 48°55'47" E	127.34'
L24	N 50°13'41" E	46.30'
L25	N 49°42'27" E	187.30'
L26	S 52°59'15" W	447.04'
L27	N 75°56'01" W	123.44'
L28	N 75°56'01" W	403.33'
L29	N 52°22'34" W	455.57'
L30	N 52°22'34" W	470.09'
L31	N 48°55'47" E	26.73'
L32	S 06°18'17" E	76.85'
L33	S 83°41'43" W	47.77'
E1	N 05°45'02" W	120.34'

CURVE TABLE

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	175.00'	143.27'	139.30'	S18°31'45"W	46°54'28"
E2	779.50'	154.67'	154.42'	N11°26'05"W	11°22'08"
E3	969.50'	7.92'	7.92'	N05°30'59"W	0°28'05"
E4	965.95'	56.90'	56.89'	N01°44'55"W	3°22'30"

APPROVED BY THE PORTSMOUTH PLANNING BOARD

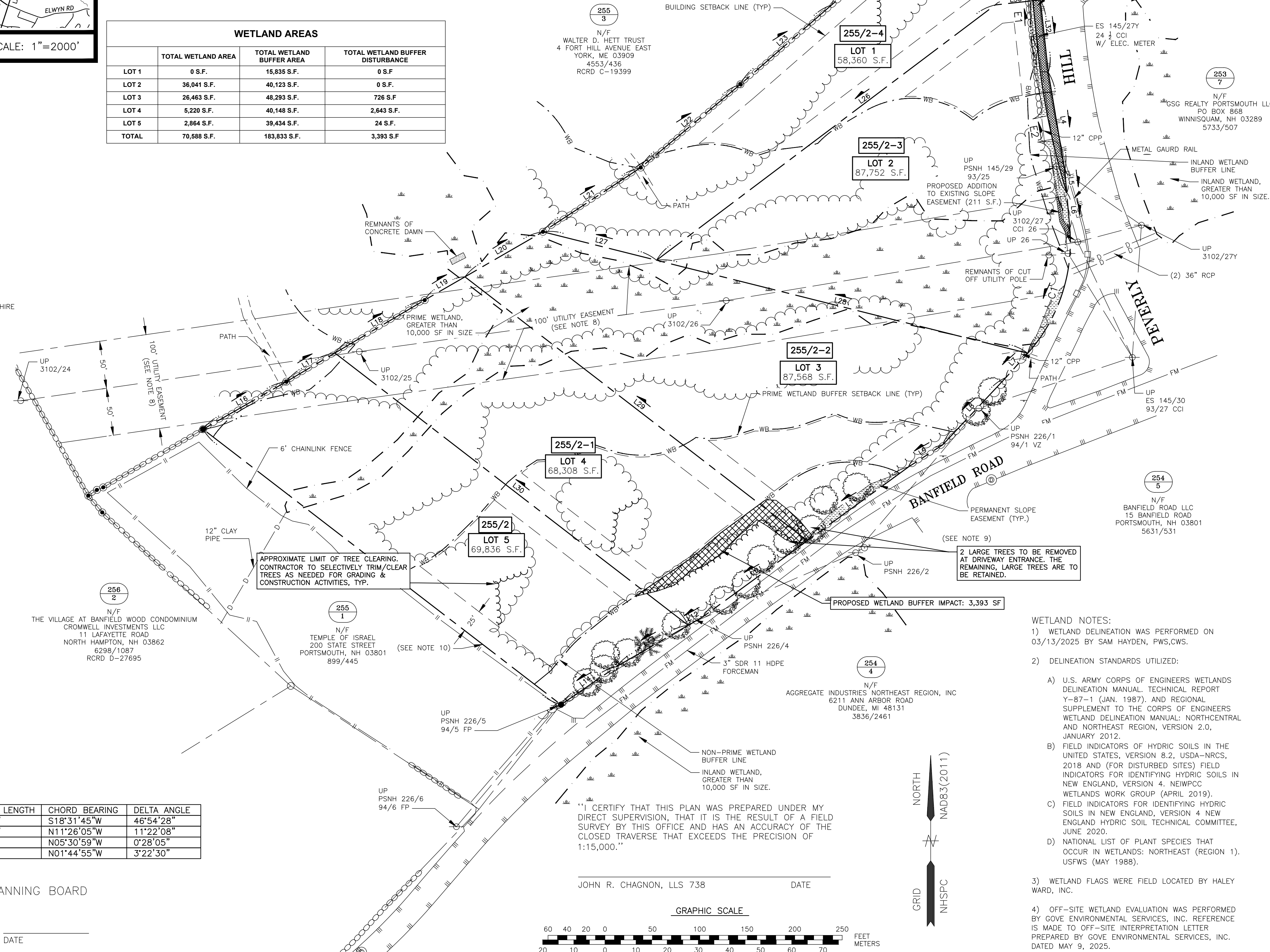
CHAIRMAN

DATE

PLAN REFERENCES:

- 1) PLAN OF LAND FOR JOHN & MAUD HETT PORTSMOUTH, N.H. PREPARED BY: M.E. JENKINS, SCALE: 1"=100', DATED: DECEMBER 1988. RCRD C-19399.
- 2) SUBDIVISION PROPERTY OF JOHN & MAUD HETT, PORTSMOUTH NH, RCRD 2057/493. PREPARED BY: M.E. JENKINS, SCALE: 1"=50', DATED: OCTOBER 1988. RCRD C-18915.
- 3) PLAN SHOWING A PORTION OF PROPERTY OF JOHN HETT AND MAUD B HETT, PORTSMOUTH, ROCKINGHAM COUNTY, NH. PREPARED BY: MOULTON ENGINEERING CO., INC. SCALE: 1"=20', DATED: MAY 12, 1971. RCRD #2289.
- 4) SUBDIVISION PLAN FOR WALTER D HETT & THE TEMPLE OF ISRAEL, BANFIELD ROAD, COUNTY OF ROCKINGHAM, PORTSMOUTH, NH. PREPARED BY: MILLETTE, SPRAGUE, & COLWELL, INC., Scale: 1"=100', DATED: JUNE 25, 1999. RCRD D-27695.
- 5) PEVERLY HILL ROAD INTERSECTION IMPROVEMENTS. PREPARED BY: HOYLE TANNER & ASSOCIATES, INC., SCALE: 1"=20', DATED: AUGUST 2000. RCRD D-28807.
- 6) NEW HAMPSHIRE ELECTRIC COMPANY, PORTSMOUTH, NH "FOYES CORNER TAP" PORTSMOUTH AND RYE NH, POWER LINE RIGHT OF WAY 100 FT IN WIDTH ACROSS PROPERTY OF JOHN, ELIZABETH, & HELEN M HETT. PREPARED BY: ALBERT MOULTON, SCALE: 1"=200', DATED: JANUARY 28, 1954. RCRD 1310/39, RCRD 1310/36, RCRD 1310/42, RCRD 1310/45.
- 7) BANFIELD ROAD RIGHT-OF-WAY WIDENING PLAN, CITY OF PORTSMOUTH NEW HAMPSHIRE. PREPARED BY: KIMBALL CHASE COMPANY, INC., SCALE: 1"=40', PROJECT NO. 83-311, NOT DATED OR RECORDED.

WETLAND AREAS			
	TOTAL WETLAND AREA	TOTAL WETLAND BUFFER AREA	TOTAL WETLAND BUFFER DISTURBANCE
LOT 1	0 S.F.	15,835 S.F.	0 S.F.
LOT 2	36,041 S.F.	40,123 S.F.	0 S.F.
LOT 3	26,463 S.F.	48,293 S.F.	726 S.F.
LOT 4	5,220 S.F.	40,148 S.F.	2,643 S.F.
LOT 5	2,864 S.F.	39,434 S.F.	24 S.F.
TOTAL	70,588 S.F.	183,833 S.F.	3,393 S.F.



WETLAND NOTES:

- 1) WETLAND DELINEATION WAS PERFORMED ON 03/13/2025 BY SAM HAYDEN, PWS,CWS.
- 2) DELINEATION STANDARDS UTILIZED:
 - A) U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JAN. 1987), AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012.
 - B) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8.2, USDA-NRCS, 2018 AND (FOR DISTURBED SITES) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4. NEWPCC WETLANDS WORK GROUP (APRIL 2019).
 - C) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4 NEW ENGLAND HYDRIC SOIL TECHNICAL COMMITTEE, JUNE 2020.
 - D) NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST (REGION 1). USFWS (MAY 1988).
- 3) WETLAND FLAGS WERE FIELD LOCATED BY HALEY WARD, INC.
- 4) OFF-SITE WETLAND EVALUATION WAS PERFORMED BY GOVE ENVIRONMENTAL SERVICES, INC. REFERENCE IS MADE TO OFF-SITE INTERPRETATION LETTER PREPARED BY GOVE ENVIRONMENTAL SERVICES, INC. DATED MAY 9, 2025.



HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
200 Griffin Rd. Unit 14
Portsmouth, New Hampshire 03801
603.430.9282

NOTES:

- 1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 255 AS LOT 2.
- 2) OWNERS OF RECORD:
WALTER D. HETT TRUST
WALTER D. HETT TRUSTEE
4 FORT HILL AVENUE
YORK, ME 03909
4553/432 (PARCEL 1)
- 3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0270F. EFFECTIVE DATE JANUARY 29, 2021.
- 4) EXISTING LOT AREA:
371,824 S.F.
8.54 ACRES
- 5) PARCEL IS LOCATED IN SINGLE RESIDENCE A (SRA) DISTRICT.
- 6) CURRENT ZONING: SINGLE RESIDENCE A (SRA)
DIMENSIONAL REQUIREMENTS:
MIN. LOT AREA: 43,560 S.F.
FRONTAGE: 150 FEET
DEPTH: 200 FEET
SETBACKS:
FRONT: 30 FEET
SIDE: 20 FEET
REAR: 40 FEET
MAXIMUM STRUCTURE HEIGHT: 35 FEET
MAXIMUM STRUCTURE COVERAGE: 10%
MINIMUM OPEN SPACE: 50%
- 7) THE PURPOSE OF THIS PLAN IS TO SHOW A 5 LOT SUBDIVISION ON ASSESSOR'S MAP 255 LOT 2 IN THE CITY OF PORTSMOUTH.
- 8) PARCEL IS SUBJECT TO A P.S.N.H. UTILITY EASEMENT, SEE RCRD 1310/37 AND 1310/39.
- 9) PARCEL IS SUBJECT TO A PERMANENT ROADWAY EASEMENT AND PERMANENT SLOPE EASEMENTS CONTAINED IN A DEED FROM WALTER D. HETT TO THE CITY OF PORTSMOUTH, SEE RCRD 3563/686 AND RCRD D-28807.
- 10) SEE NEW HAMPSHIRE STATUTE, TITLE XXVI CHAPTER: 289:3 LOCATION.III. NO NEW CONSTRUCTION, EXCAVATION, OR BUILDING SHALL BE CONDUCTED WITHIN 25' OF A KNOWN BURIAL SITE OR WITHIN 25' OF THE BOUNDARIES OF AN ESTABLISHED BURIAL GROUND OR CEMETERY.
- 11) ABUTTER INFORMATION TAKEN FROM THE CITY OF PORTSMOUTH GIS WEBSITE.
- 12) TOPOGRAPHY SHOWN HEREON DERIVED FROM LIDAR BARE EARTH DIGITAL ELEVATION MODEL 2022 OBTAINED FROM NH GRANIT.

5	REVISED DRIVEWAYS, DETAILS & ESC PLAN	7/09/25
4	WETLAND IMPACTS	6/25/25
3	EASEMENTS	5/21/25
2	LOTS	3/1/25
1	LOTS	2/12/25
0	ISSUED FOR COMMENT	1/27/25
NO.	DESCRIPTION	DATE

REVISIONS

SUBDIVISION PLAN TAX MAP 255 – LOT 2

OWNER:

WALTER D. HETT
BANFIELD ROAD &
PEVERLY HILL ROAD
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE

SCALE: 1"=60'

JANUARY 2025

FB 499 & PG 1

5010220

UTILITY CONTACTS

ELECTRIC:
EVERSOURCE
1700 LAFAYETTE ROAD
PORTSMOUTH, N.H. 03801
Tel. (603) 436-7708, Ext. 555.5678
ATTN: NICHOLAS KOSKO

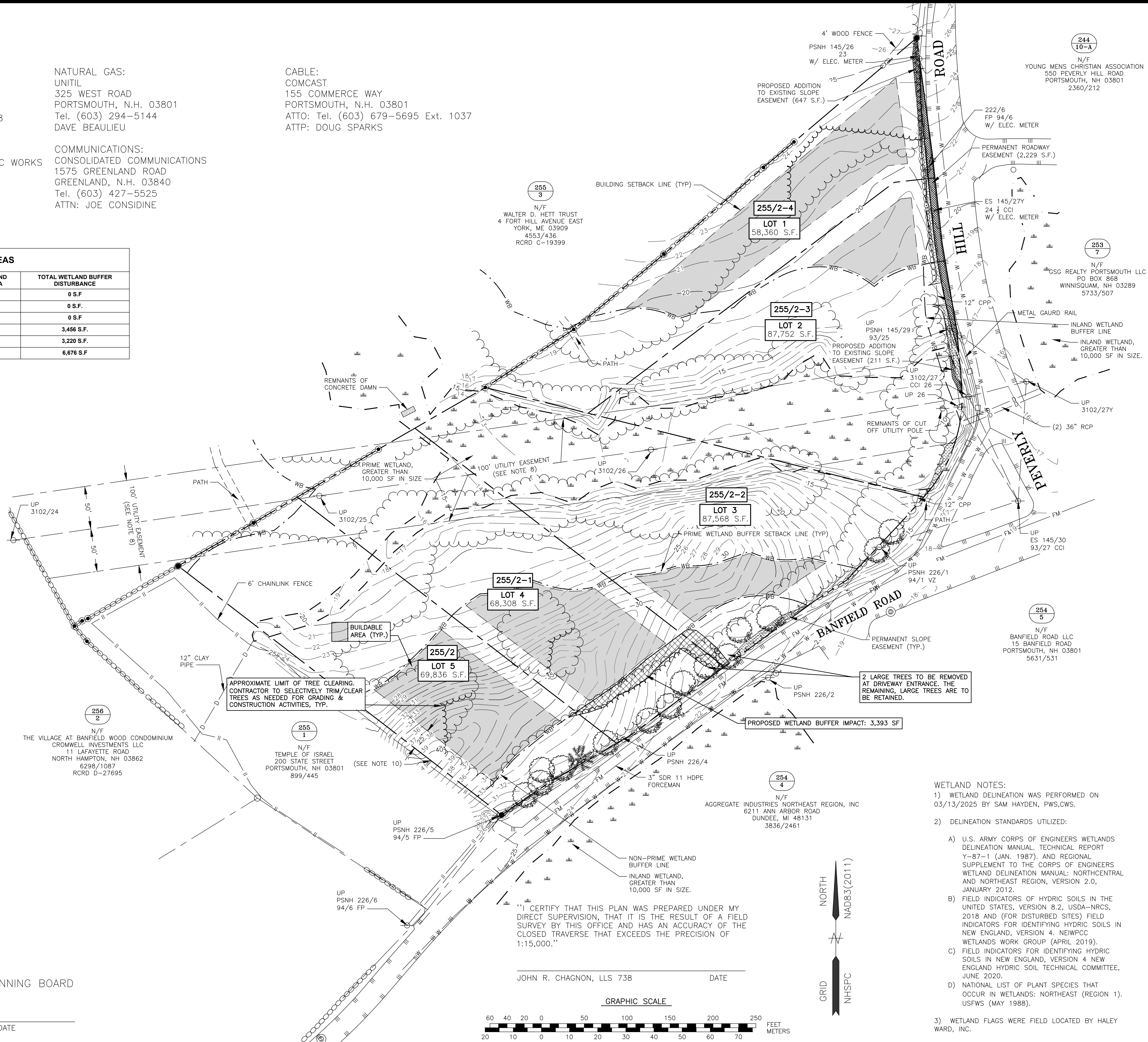
NATURAL GAS:
UNITIL
325 WEST ROAD
PORTSMOUTH, N.H. 03801
Tel. (603) 294-5144
DAVE BEAULIEU

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

COMMUNICATIONS:
CONSOLIDATED COMMUNICATIONS
1575 GREENLAND ROAD
GREENLAND, N.H. 03840
Tel. (603) 427-5525
ATTN: JOE CONSIDINE

CABLE:
COMCAST
155 COMMERCE WAY
PORTSMOUTH, N.H. 03801
ATTO: Tel. (603) 679-5695 Ext. 1037
ATTP: DOUG SPARKS

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TOTAL	70,588 S.F.	183,833 S.F.	6,676 S.F.



APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____

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8.54 ACRES
- 5) PARCEL IS LOCATED IN SINGLE RESIDENCE A (SRA) DISTRICT.

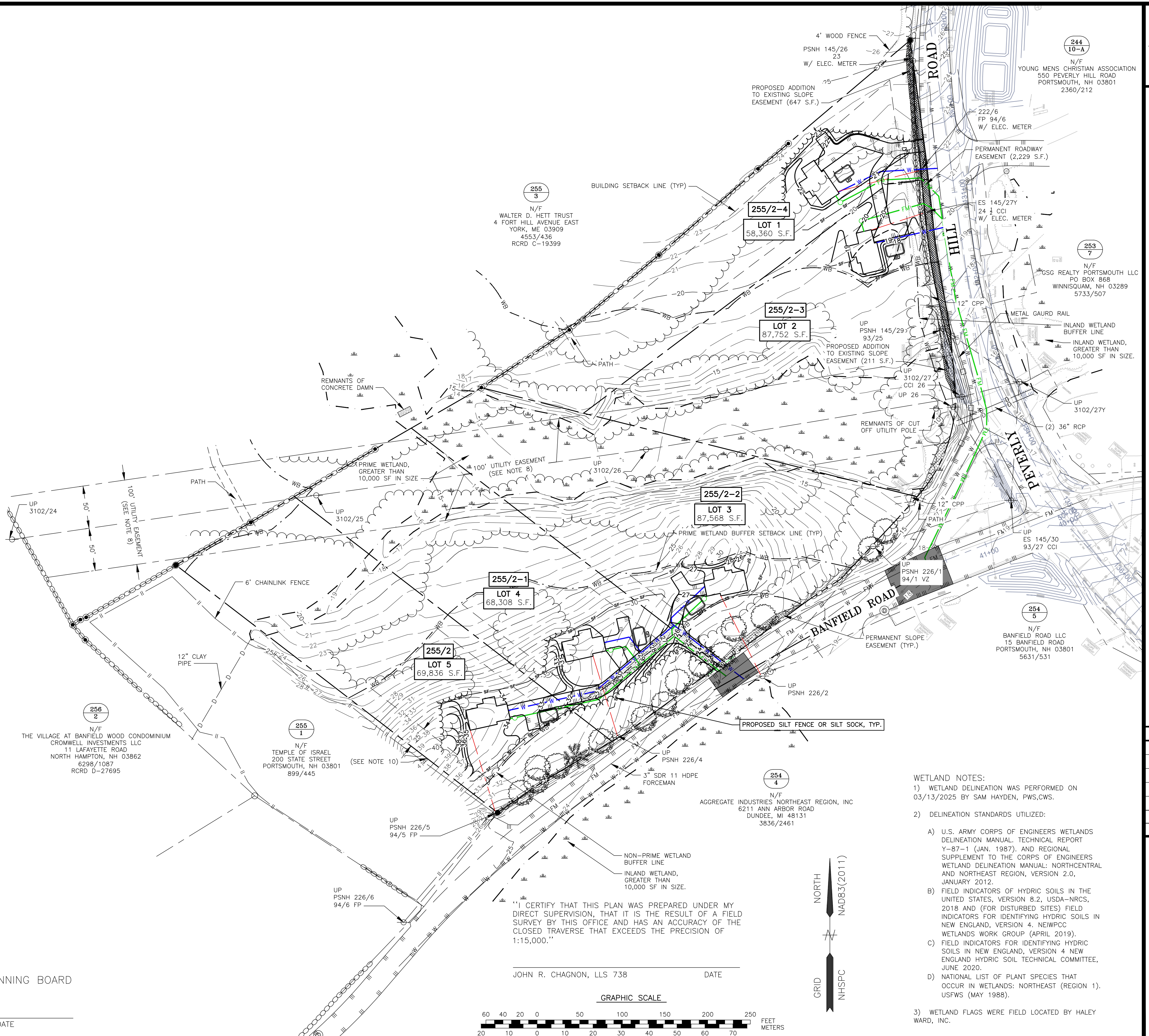
5	REVISED DRIVEWAYS, DETAILS & ESC PLAN	7/09/25
4	WETLAND IMPACTS	6/25/25
3	EASEMENTS	5/21/25
2	LOTS	3/1/25
1	LOTS	2/12/25
0	ISSUED FOR COMMENT	1/27/25
NO.	DESCRIPTION	DATE
REVISIONS		

SUBDIVISION SITE PLAN
TAX MAP 255 - LOT 2

OWNER:
WALTER D. HETT
BANFIELD ROAD &
PEVERLY HILL ROAD
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE

SCALE: 1"=60' JANUARY 2025

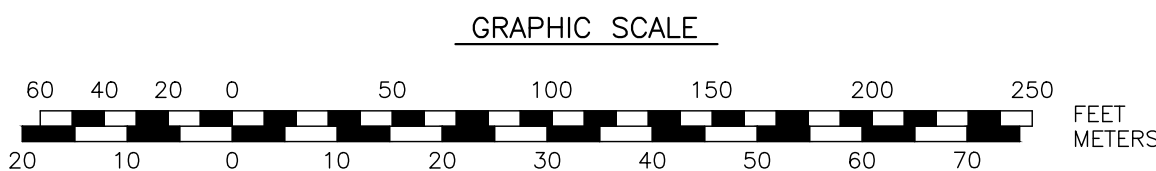
- NOTES:**
- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN THIRTY DAYS.
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APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____

JOHN R. CHAGNON, LLS 738 DATE _____



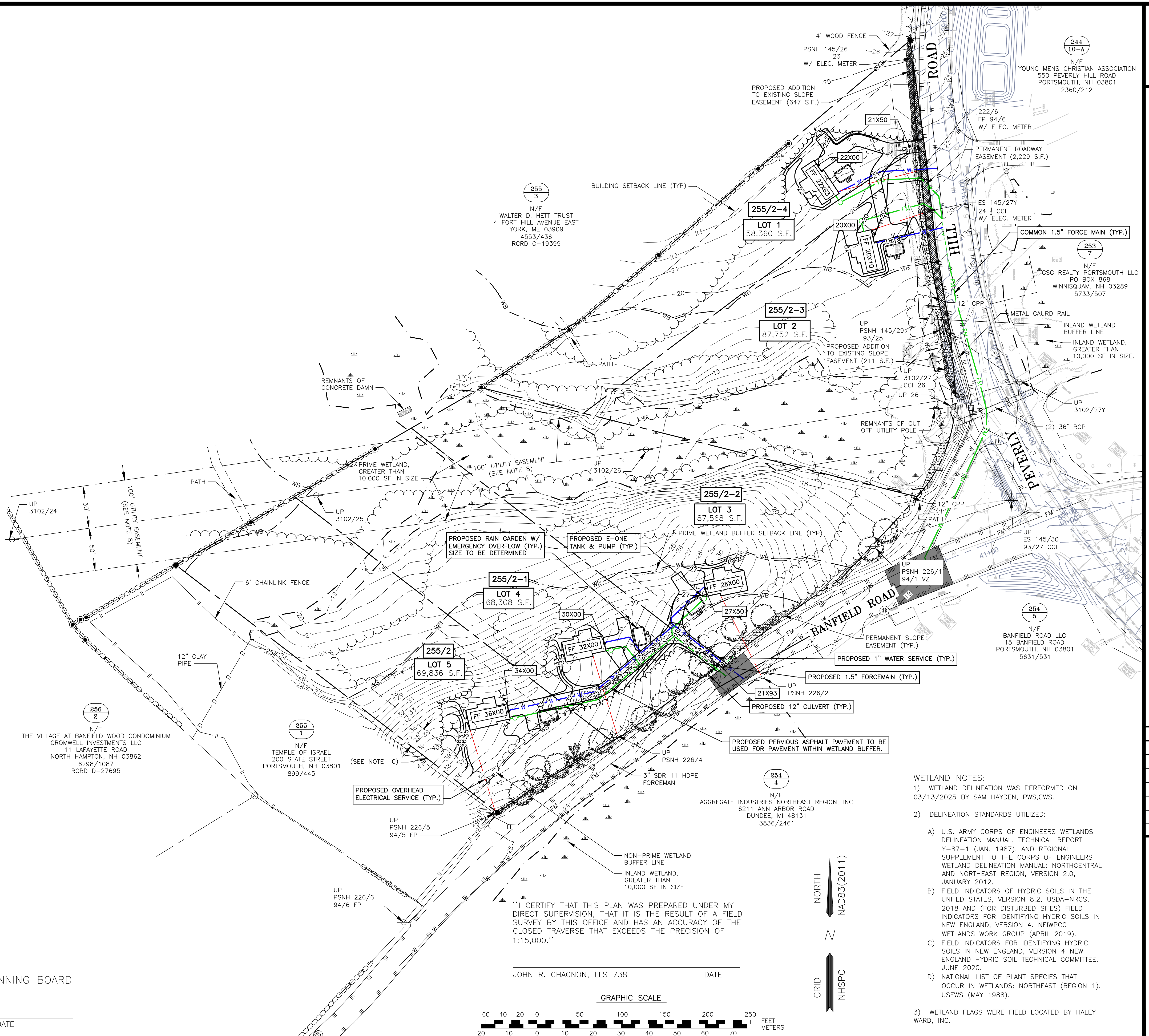
- WETLAND NOTES:**
- 1) WETLAND DELINEATION WAS PERFORMED ON 03/13/2025 BY SAM HAYDEN, PWS,CWS.
 - 2) DELINEATION STANDARDS UTILIZED:
 - A) U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JAN. 1987). AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHEAST AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012.
 - B) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 8.2, USDA-NRCS, 2018 AND (FOR DISTURBED SITES) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, NEWPCC WETLANDS WORK GROUP (APRIL 2019).
 - C) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4 NEW ENGLAND HYDRIC SOIL TECHNICAL COMMITTEE, JUNE 2020.
 - D) NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST (REGION 1). USFWS (MAY 1988).
 - 3) WETLAND FLAGS WERE FIELD LOCATED BY HALEY WARD, INC.

5	REVISED DRIVEWAYS, DETAILS & ESC PLAN	7/09/25
4	GRADING/WETLAND IMPACTS	6/25/25
3	GRADING/EASEMENTS	5/21/25
2	UTILITY DESIGN	4/23/25
1	LOTS	3/1/25
0	ISSUED FOR COMMENT	2/12/25
NO.	DESCRIPTION	DATE

**EROSION CONTROL PLAN
TAX MAP 255 – LOT 2**

OWNER:
WALTER D. HETT
BANFIELD ROAD &
PEVERLY HILL ROAD
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE

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NO.	DESCRIPTION	DATE

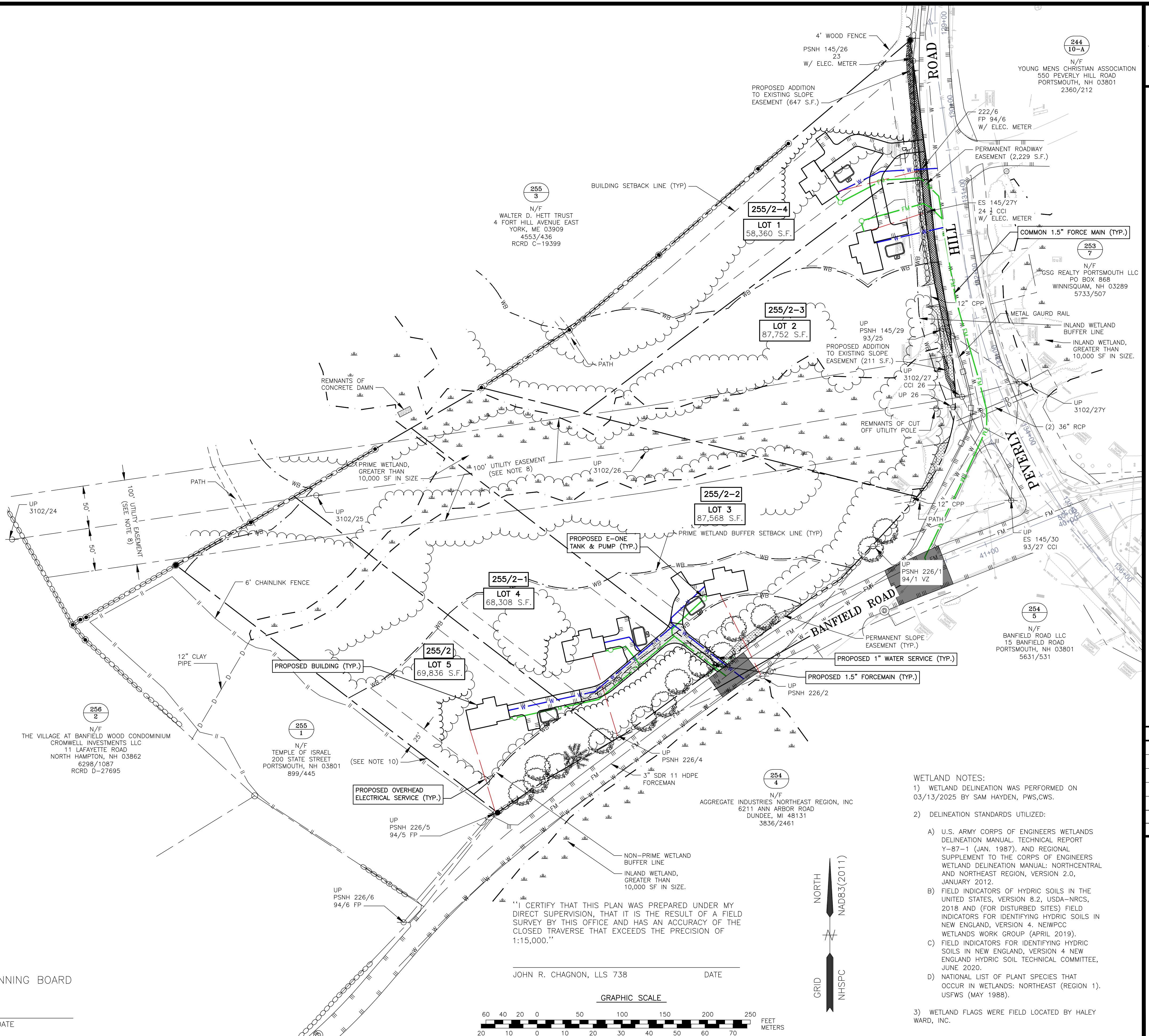
GRADING PLAN
TAX MAP 255 - LOT 2

OWNER:
WALTER D. HETT
BANFIELD ROAD &
PEVERLY HILL ROAD
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____

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APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____

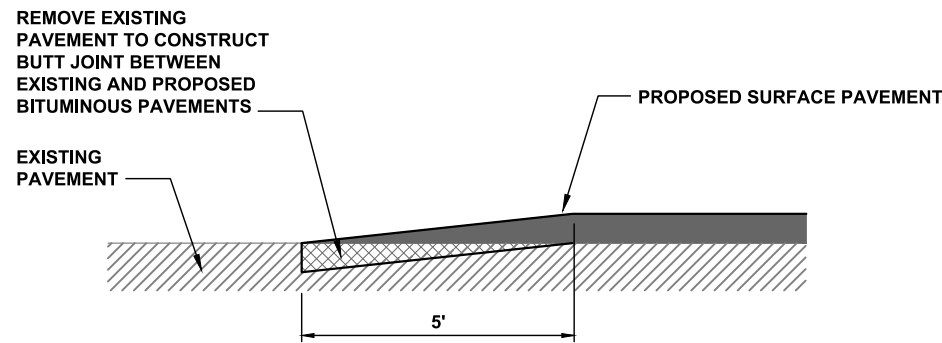
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REVISIONS

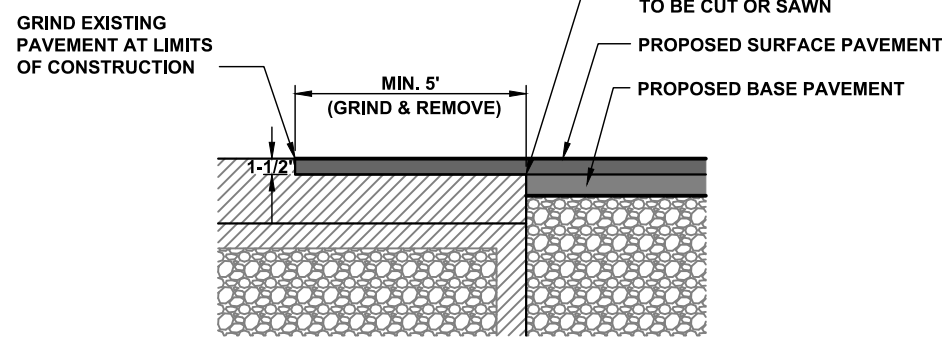
UTILITY SITE PLAN
TAX MAP 255 – LOT 2

OWNER:
WALTER D. HETT
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CITY OF PORTSMOUTH
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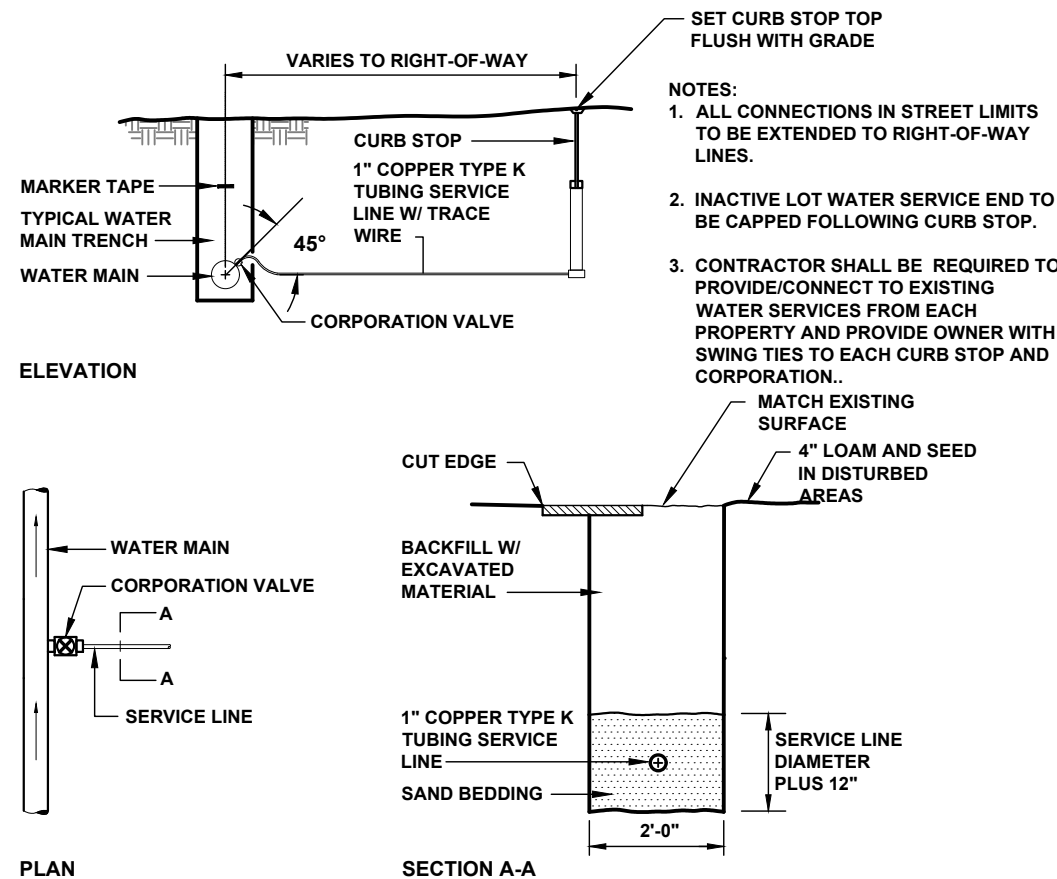


TYPICAL ASPHALT PAVEMENT BUTT JOINT DETAIL
N.T.S.

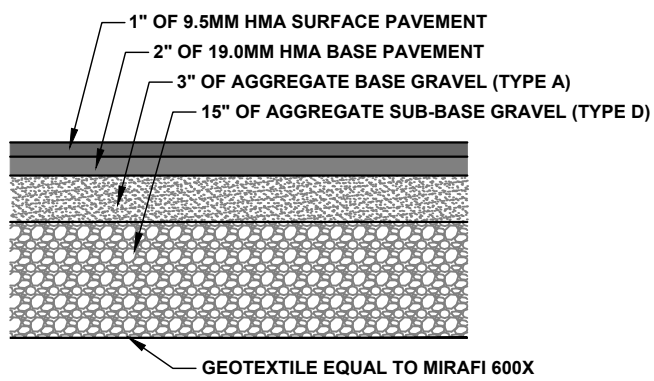


- NOTES:**
1. EXTEND NEW SURFACE PAVEMENT ACROSS BUTT JOINT IN BASE COURSE.
 2. PROVIDE TACK COAT ON ALL SURFACES OF EXISTING PAVEMENT TO BE COVERED.

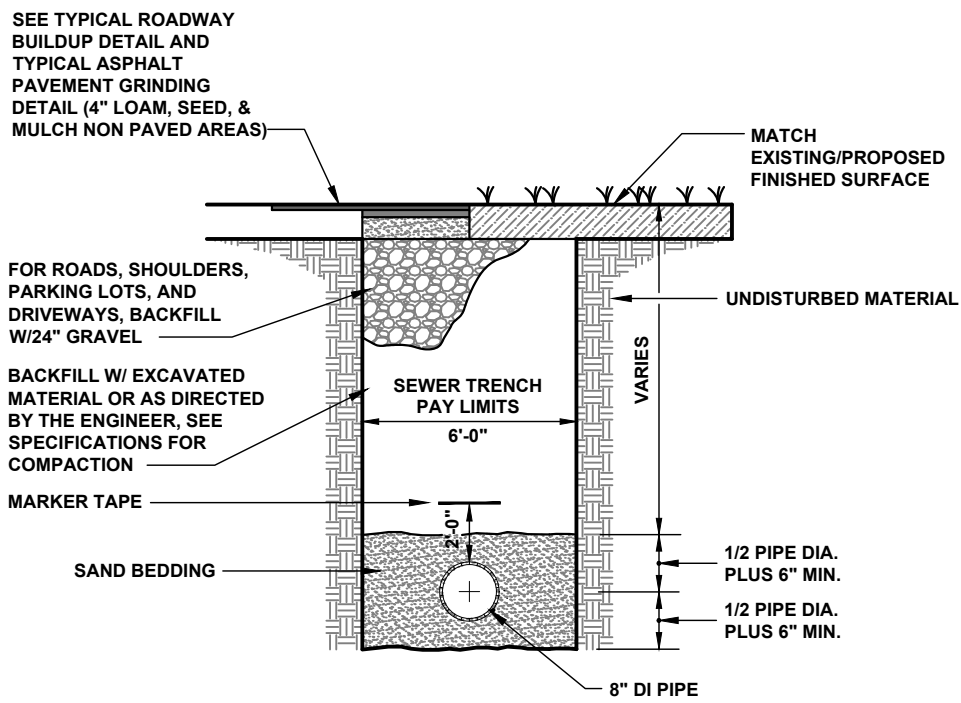
TYPICAL ASPHALT PAVEMENT GRINDING DETAIL
NTS



TYPICAL WATER SERVICE DETAIL
NTS

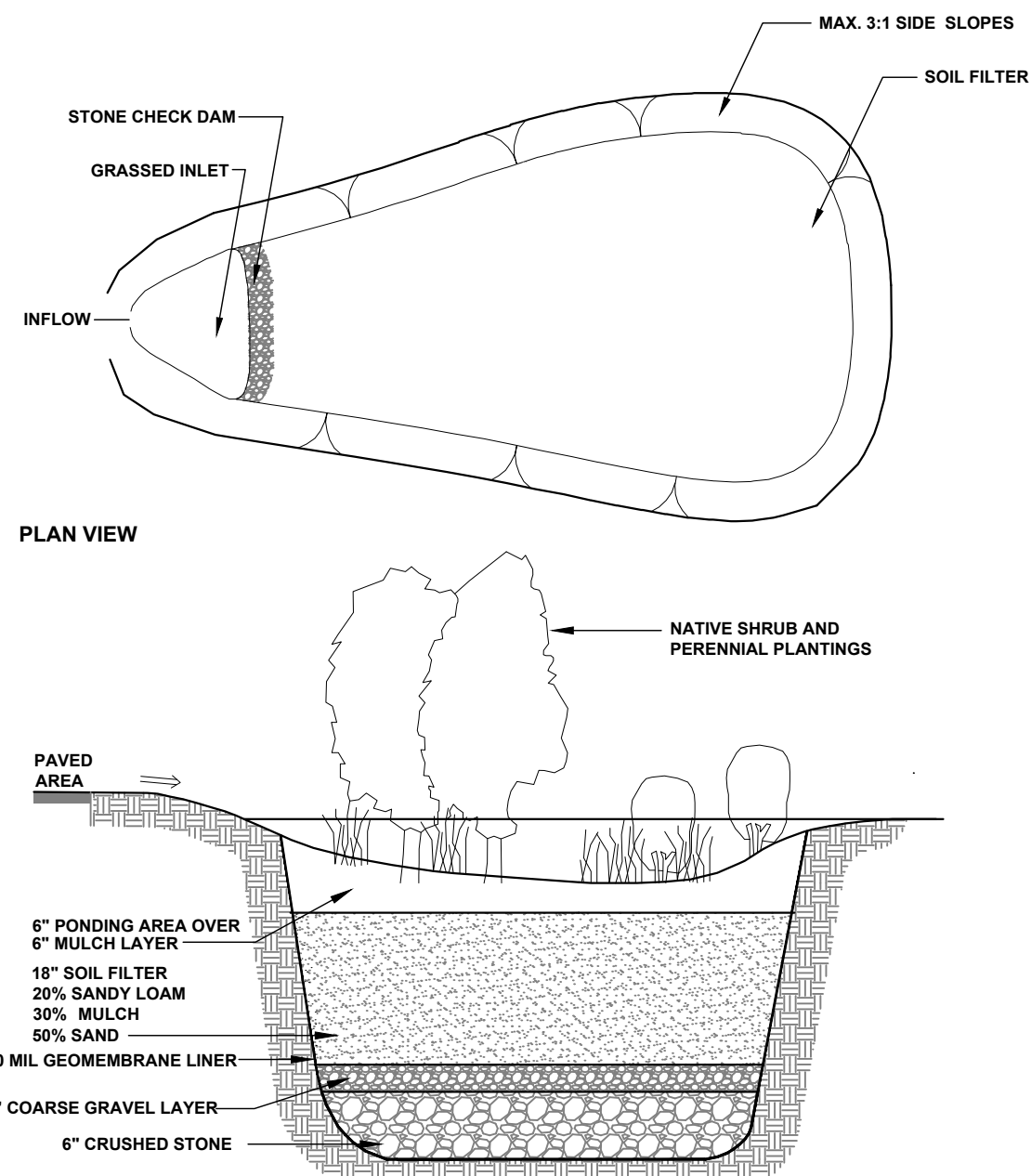


DRIVEWAY APRON BUILDUP DETAIL
NTS



- NOTE:**
1. MATCH EXISTING SURFACE FINISH, EXCEPT WHERE NOTED. IN LAWN AREAS INSTALL 4" OF LOAM AND SEED AND MULCH.

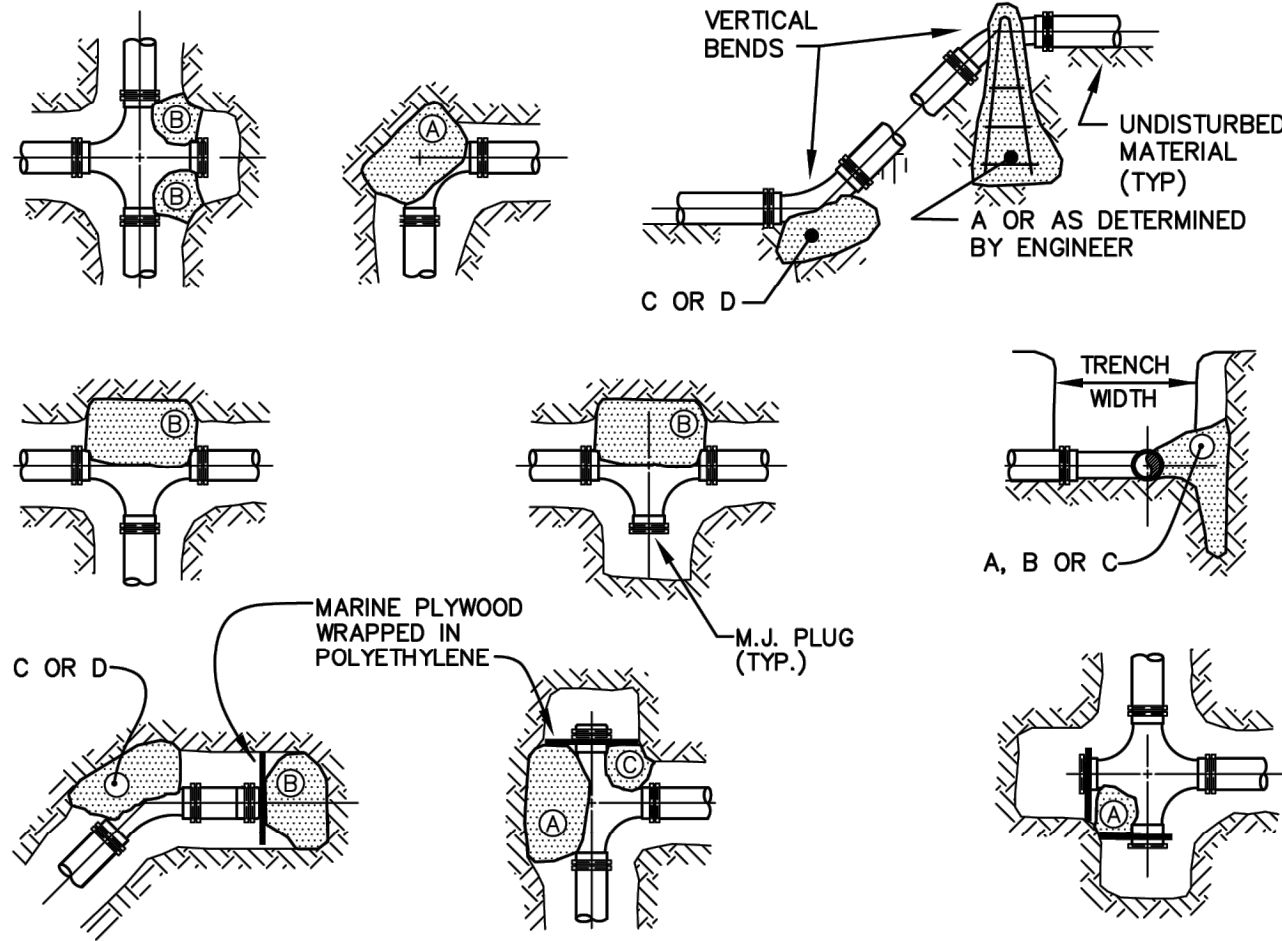
TYPICAL FORCE MAIN TRENCH DETAIL
NTS



- NOTES:**
1. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER AND SEWER MAINS. A MINIMUM VERTICAL DISTANCE WITH WATER ABOVE SEWER SHALL BE MAINTAINED.
 2. SEWER PIPE JOINTS SHALL BE LOCATED A MINIMUM OF 6 FEET HORIZONTALLY FROM WATER MAIN.
 3. IF THE REQUIRED CONFIGURATION CANNOT BE MET, THE SEWER MAIN SHALL BE CONSTRUCTED TO MEET THE NHDES REQUIREMENTS FOR FORCE MAIN CONSTRUCTION.

WATER/SEWER MAIN CROSSING

N.T.S.

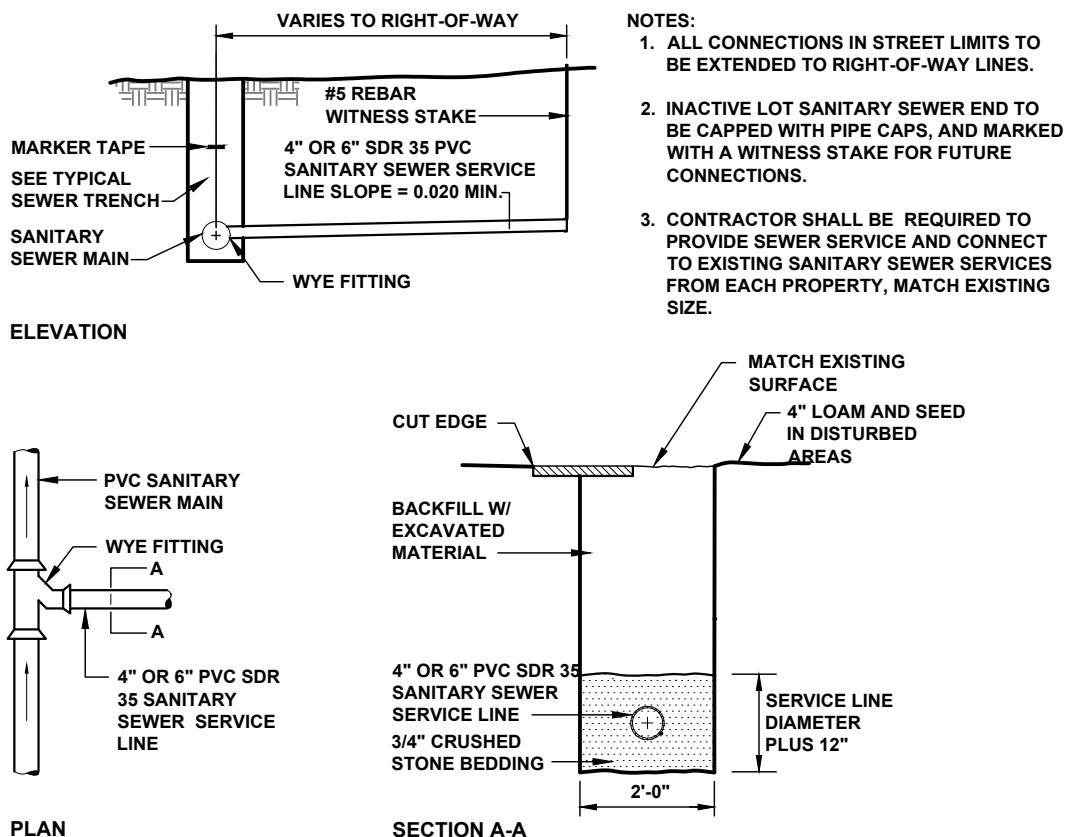


REACTION TYPE	PIPE SIZE				
	3"	4"	6"	8"	12"
A 90°	0.89	2.19	3.82	11.14	17.24
B 180°	0.65	1.55	2.78	8.38	12.90
C 45°	0.48	1.19	2.12	6.02	9.42
D 22-1/2°	0.25	0.60	1.06	3.08	4.74
E 11-1/4°	0.13	0.30	0.54	1.54	2.38

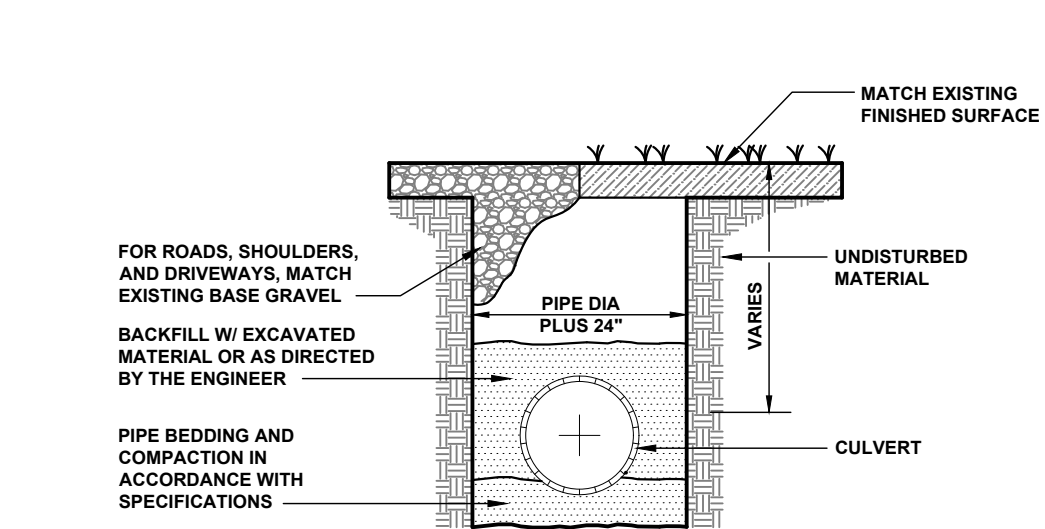
NOTES:

1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL.
2. NO JOINTS SHALL BE COVERED WITH CONCRETE. POLYETHYLENE (6 MIL) SHALL BE PLACED AROUND FITTINGS PRIOR TO CONCRETE PLACEMENT.
3. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
4. PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCKS. WHERE M.J. PIPE IS USED, M.J. PLUG WITH RETAINER GLAND MAY BE SUBSTITUTED FOR END BLOCKINGS.

WATER/SEWER MAIN CROSSING
N.T.S.



TYPICAL SANITARY SEWER SERVICE DETAIL
NTS

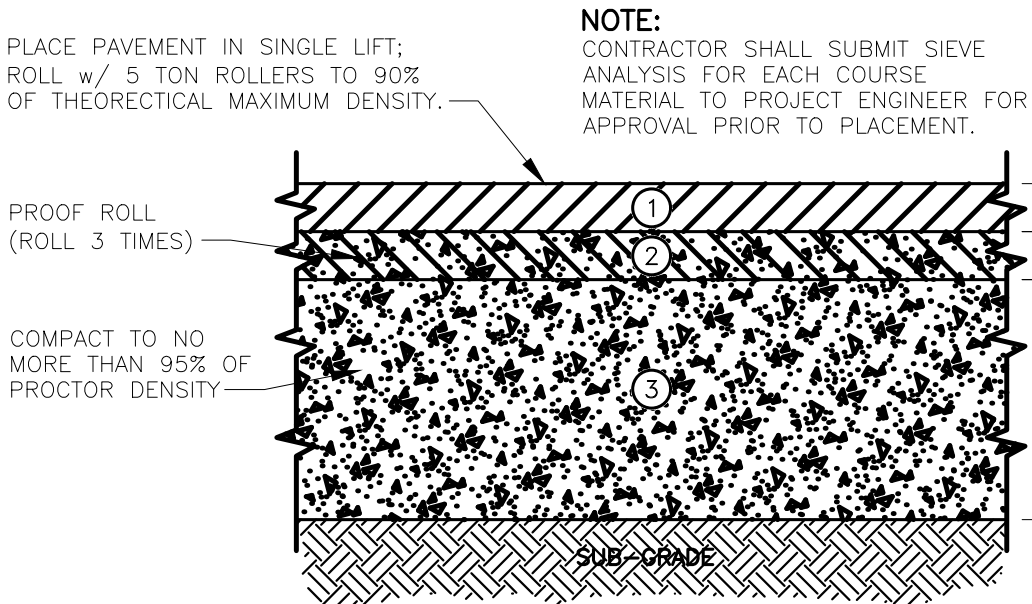


- NOTE:**
1. PAYMENT LIMITS SHALL BE 6" WIDE (3" EACH SIDE OF CULVERT)

TYPICAL CULVERT TRENCH DETAIL
NTS

POROUS PAVEMENT SPECIFICATIONS					
①		②		③	
POROUS PAVEMENT w/ THE FOLLOWING GRADATIONS*		CHOKER/RESERVOIR COURSE w/ THE FOLLOWING GRADATIONS**		FILTER COURSE (Item 304.3, Processed Gravel)	
SIEVE SIZE	PASSING BY WEIGHT (%)	SIEVE SIZE	PASSING BY WEIGHT (%)	SIEVE SIZE	PASSING BY WEIGHT (%)
3/4" (19mm)	100	1" (25mm)	100	3" (75mm)	100
1/2" (12.5mm)	85-100	3/4" (19mm)	45-55	2.0" (50mm)	95-100
3/8" (9.5mm)	55-75	1/2" (12.5mm)	40-50	1" (25mm)	55-85
No. 4 (4.75mm)	10-25	3/8" (9.5mm)	35-45	No. 4 (4.75mm)	27-52
No. 8 (2.36mm)	5-10	No. 4 (4.75mm)	---	---	---
No. 200 (0.075mm)	2-4	No. 8 (2.36mm)	0-5	No. 200 (0.075 mm)	0-12 (in sand portion)

- * WITH 6% PERFORMANCE GRADED ASPHALT BINDER CONTENT BY VOLUME. AIR Voids TO BE 20%
** CRUSHED QUARRY STONE SHALL CONTAIN AT LEAST 2 FRACTURED FACES, & SHALL BE WASHED WITH LESS THAN 1% BY WEIGHT PASSING No. 200 SIEVE.



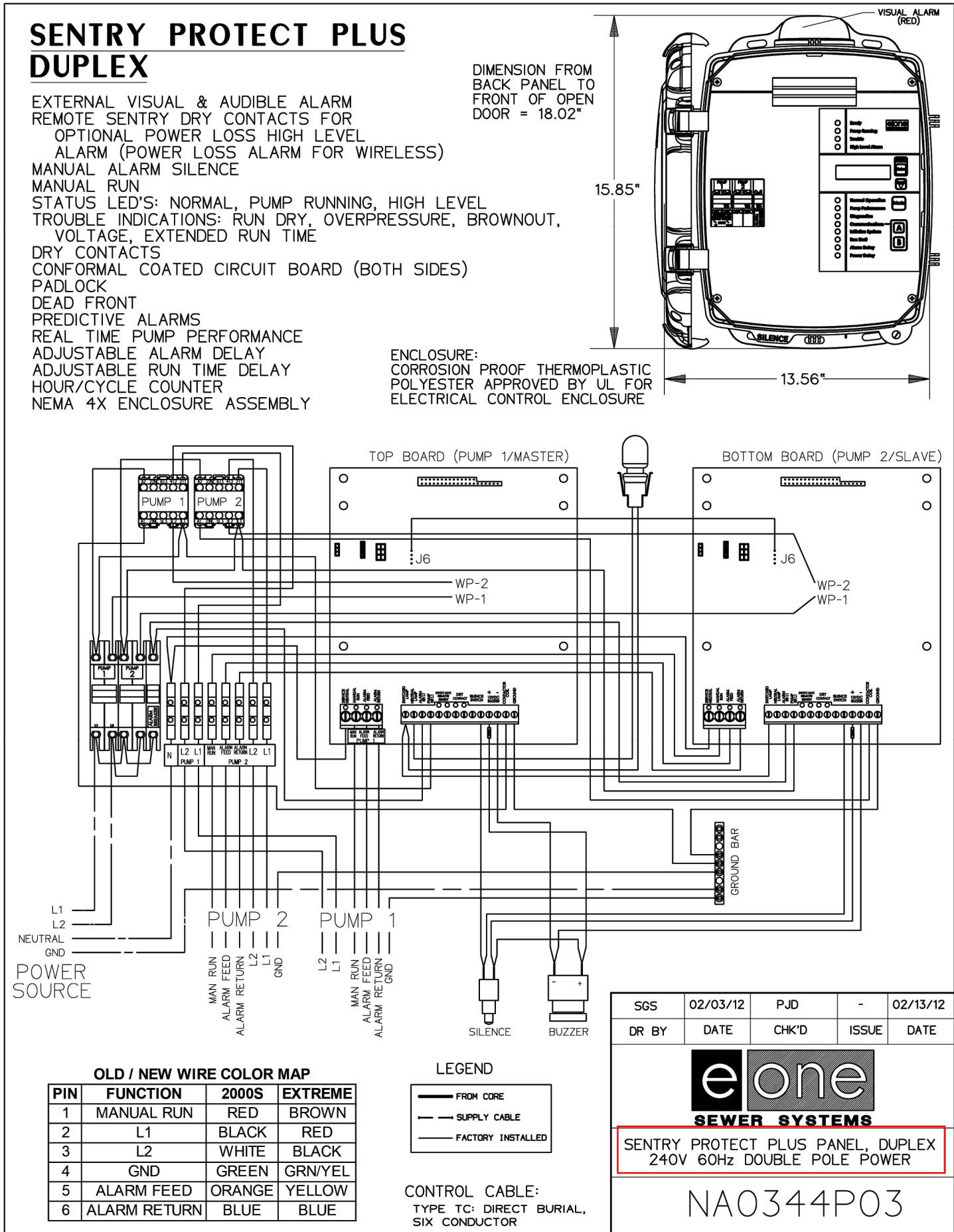
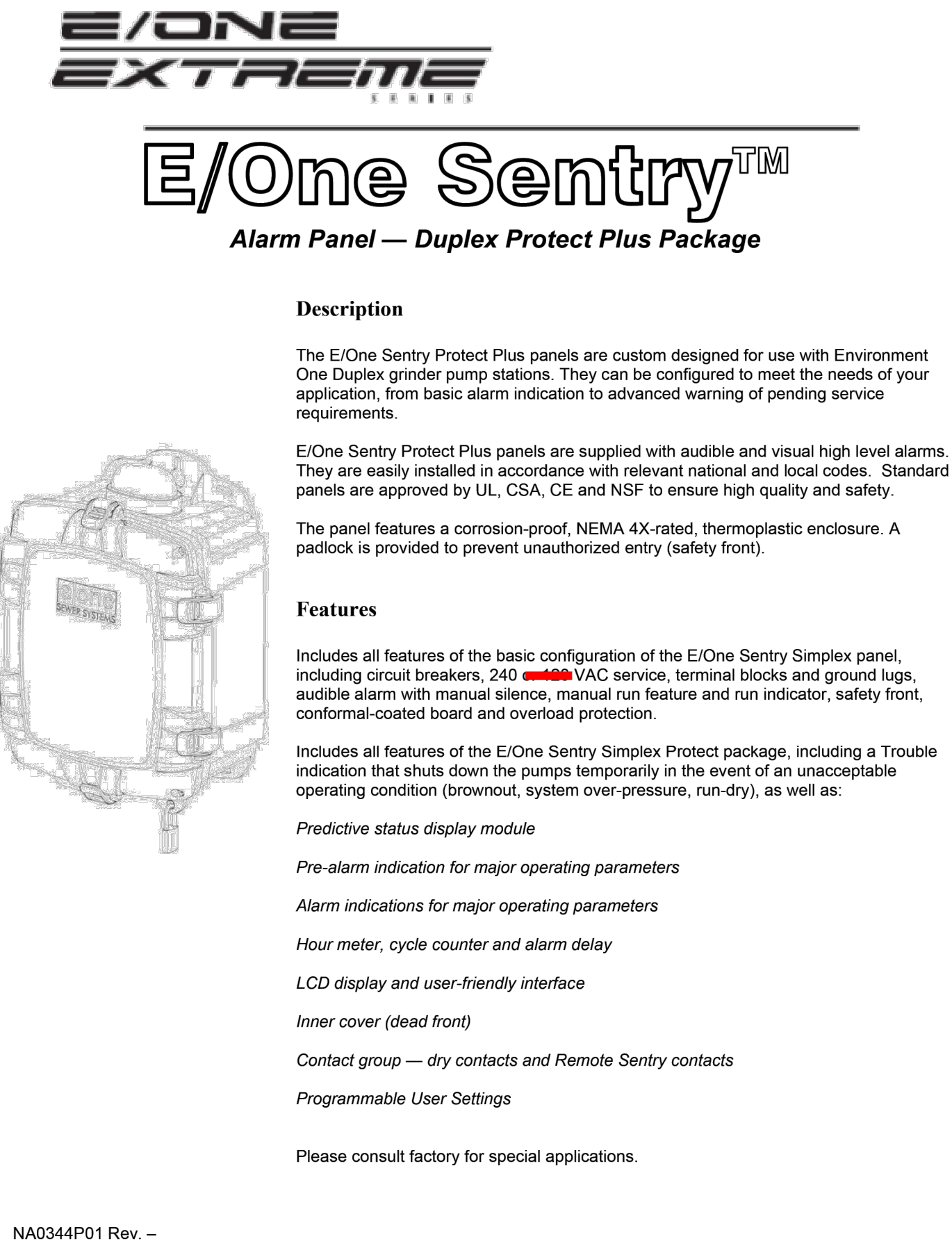
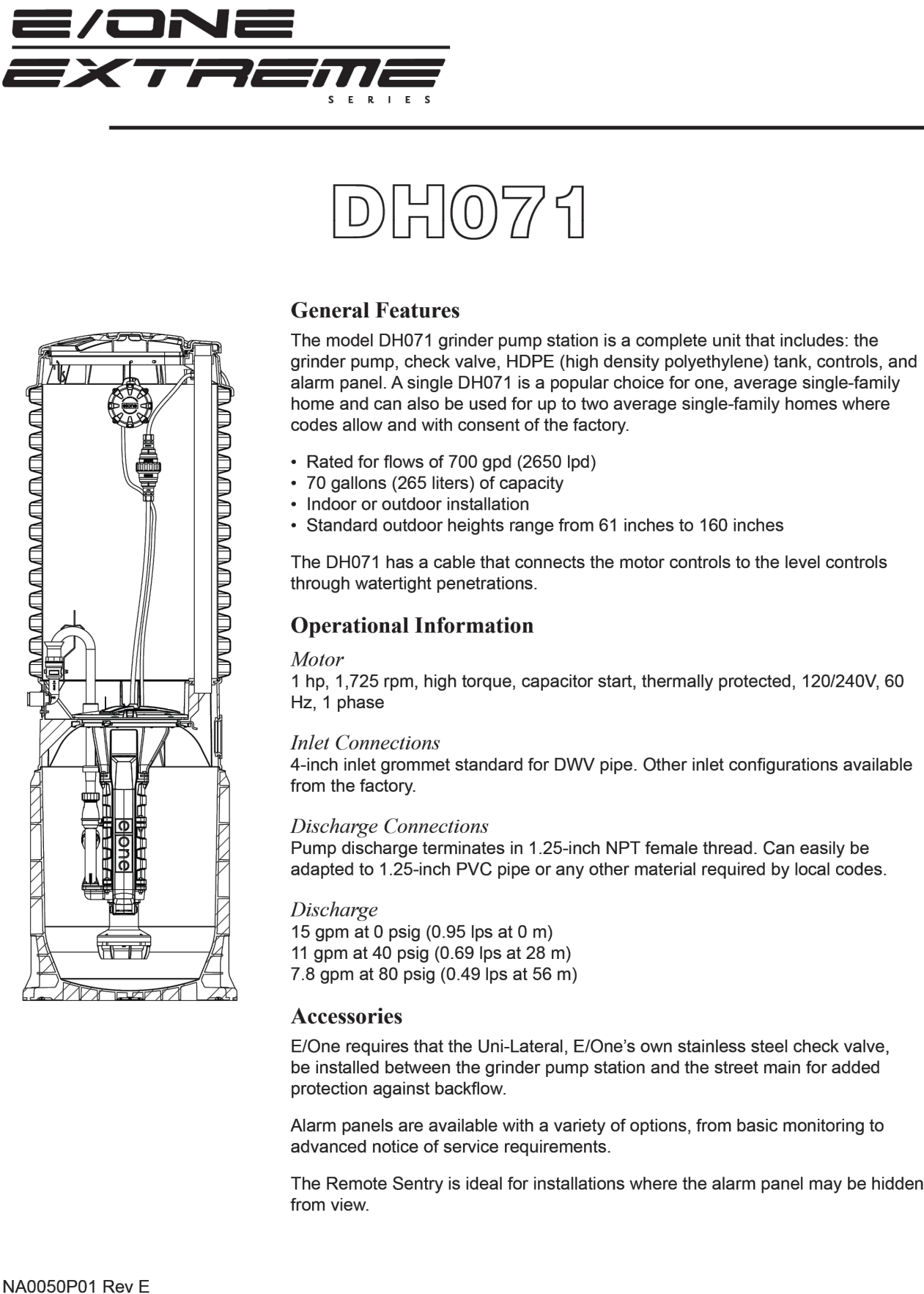
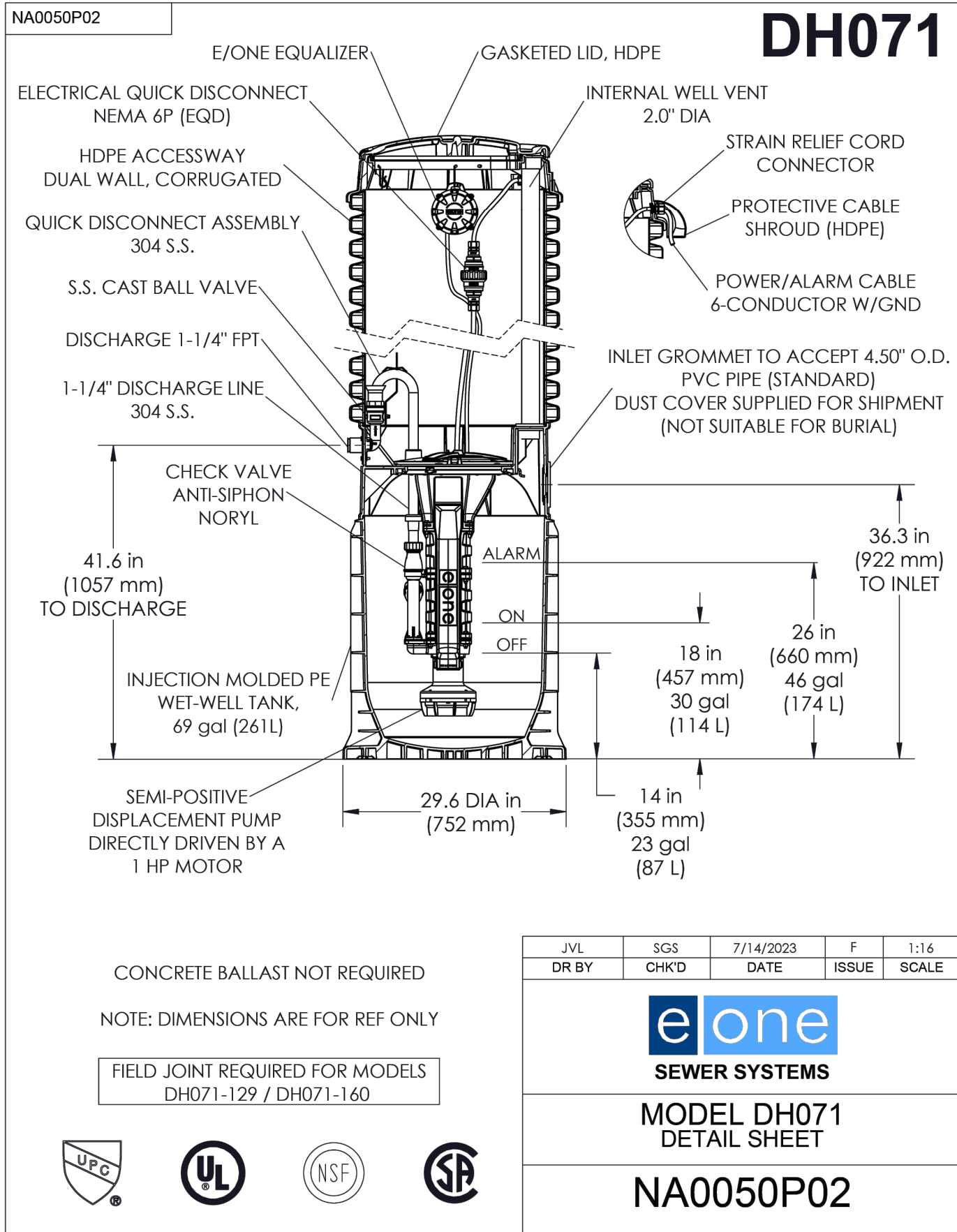
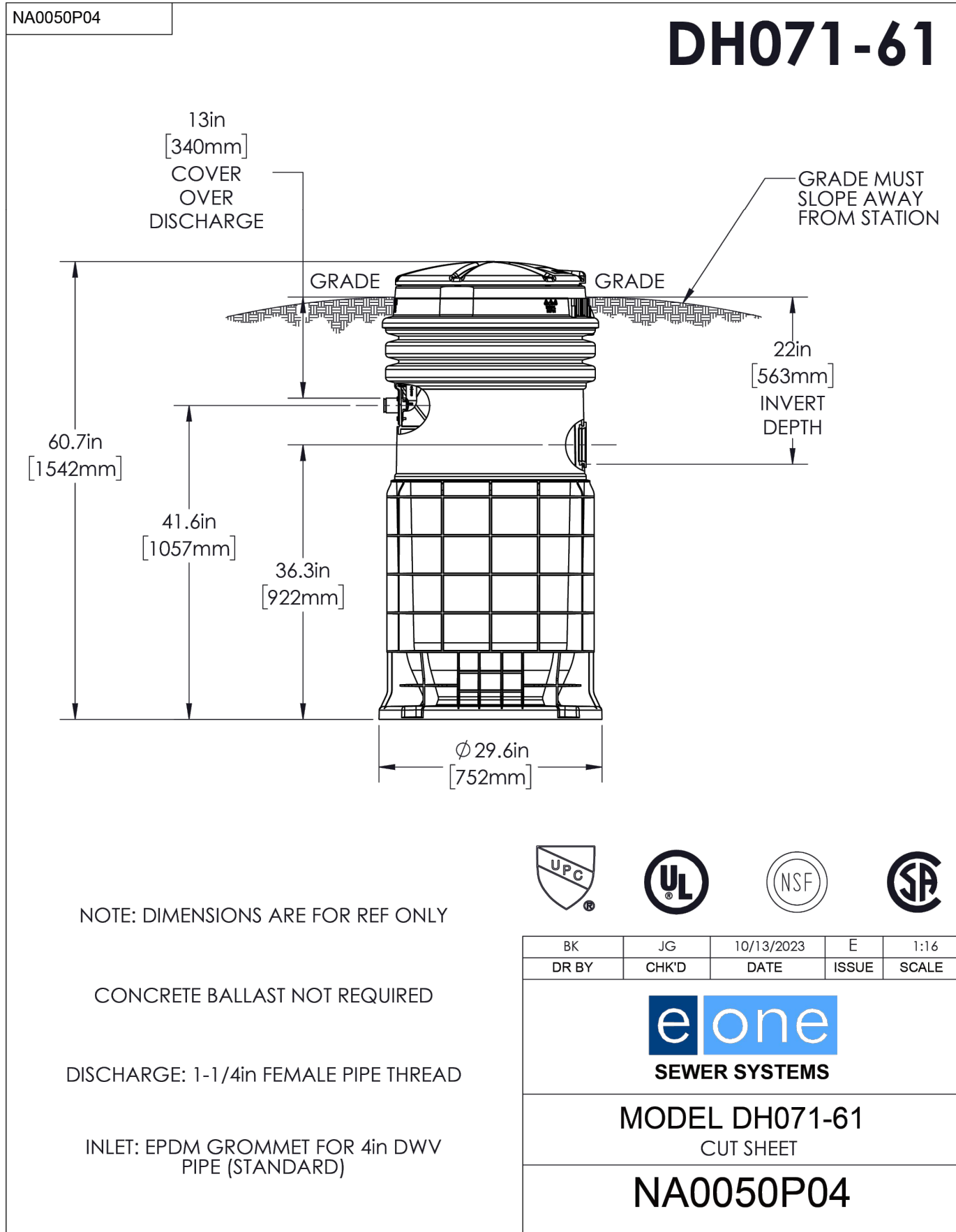
PAVEMENT SECTION
NTS

POROUS PAVEMENT SECTION
N.T.S.

NO.	DESCRIPTION	DATE
5	REVISED DRIVEWAYS, DETAILS & ESC PLAN	7/09/25
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REVISIONS

DETAILS
TAX MAP 255 – LOT 2
OWNER:
WALTER D. HETT
BANFIELD ROAD &
PEVERLY HILL ROAD
CITY OF PORTSMOUTH
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DETAILS

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STATE OF NEW HAMPSHIRE

SCALE: NTS

JANUARY 2025

FB 499 & PG 1

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