

TOWN OF EXETER, NEW HAMPSHIRE

10 FRONT STREET • EXETER, NH • 03833-3792 • (603) 778-0591 •FAX 772-4709 www.exeternh.gov

PUBLIC NOTICE EXETER CONSERVATION COMMISSION Site Walk

The Exeter Conservation Commission will be conducting a site walk on **Tuesday November 12th, 2024 at 8:00 AM** meeting at the Administrative Building, 5 White Oak Dr., Exeter to review site conditions prior to the meeting.

Monthly Meeting

The Exeter Conservation Commission will meet in the TOWN HALL at 9 Front Street*, Exeter on Tuesday, November 12th, 2024 at 7:00 P.M.

Call to Order:

- 1. Introduction of Members Present
- 2. Public Comment

Action Items:

- 1. Wetland Conditional Use Permit and Wetland Dredge and Fill Applications for a new ±51,874 sf supportive living health care center building at 5 White Oak Drive, Tax Map 97, Lot 23 (*Erik Saari, Altus*).
- 2. Expenditure Requests:
 - a. ESRLAC Volunteer Annual Dues \$200
- 3. Committee Reports
 - a. Property Management
 - b. Outreach Events
 - i. Kyle Hike Challenge
 - ii. Sunrise Event at Raynes 11/23 Set Start Time 6:46am sunrise. Keith/Nick
 - c. Other Committee Reports
 - i. NHACC Annual Meeting
 - ii. Pumpkin Composting at Laney and Lu with SAC, Nov 10th 9-11am
 - iii. NHSaves ButtonUp Workshop at Exeter Library w/ EC, Nov 19th 6-7:30pm
 - iv. Window Dressers Window Insert Ordering Deadline 11/30
- 4. Approval of Minutes: 10/8/24 Meeting
- 5. Correspondence

Other Business

6. Next Meeting: 12/10/24, Submission Deadline 12/2/24

Dave Short

Exeter Conservation Commission

Posted November 8th, 2024 Exeter Town Website <u>www.exeternh.gov</u> and Town Office kiosk. * NOTE MEETING HAS BEEN MOVED TO THE TOWN HALL AT 9 FRONT STREET 11/12/24

TOWN OF EXETER PLANNING DEPARTMENT MEMORANDUM

Date:	November 8 th , 2024
To:	Conservation Commission Board Members
From:	Kristen Murphy, Conservation & Sustainability Planner
Subject:	November 12 th , Meeting

NOTE: A site walk is scheduled at 8 AM prior to the meeting (5 White Oak Drive) see agenda.

1. Riverwoods Wetland CUP and State Wetland Application

The packet includes both a wetland conditional use permit and a state wetland dredge and fill application. The applicant attended TRC on 10/31. The application had addressed earlier comments from the town's consultant engineer and no substantial additional comments remained. I have included my TRC comments in your package for reference. The applicant is scheduled to go before the Planning Board on 11/21.

With regard to mitigation, the applicant proposes an ARM in lieu fee and 3.73 acres of conservation deed restricted land abutting the SELT-held conservation easement around the Woods campus. Following the TRC, Erik Saari (Altus) contacted me and discussed the potential culvert replacement project I mentioned during the TRC meeting. I committed to look into the Tamarind Way culverts as potential alternatives. After checking with Jay Perkins, Highway Superintendent, these are no longer suitable for mitigation because they were recently replaced by the Town.

I do not have details on the conservation deed restriction language but would encourage you to inquire and include agreed upon terms as a condition of your approval.

Suggested Motion:

State Wetland Dredge and Fill: Send a memo to the State indicating:

- We have reviewed this application and have no objection to the application as proposed.
 - We have reviewed this application and recommend that the application be
 - (approved)(denied) as noted below:

Town Wetland Conditional Use Permit: Send a memo to the Planning Board indicating:

- *We have reviewed this application and have no objection to the application as proposed. We have reviewed this application and recommend that the application be*
- *(approved)(denied)(tabled to a <u>date certain</u>) as noted below:*

2. Expenditure Requests

Suggested Motion:

Authorize the expenditure of \$200 from Dues for the voluntary ESRLAC annual dues.

Authorize the expenditure of XXx from the Conservation Land Administration for the Raynes *Event*.

TOWN OF EXETER PLANNING DEPARTMENT MEMORANDUM

Date:	October 31, 2024
To:	Technical Review Committee
From:	Kristen Murphy, Conservation & Sustainability Planner
Subject:	Riverwoods Supportive Living Health Center, PB 24-16

- I commend the effort and attention given to incorporating native plantings in the landscape plan for this project.
- Given the amount of direct wetland and wetland buffer impact a natural resource plan seems warranted for this project (Site and Sub 7.12). Recommend consulting and aligning with documents previously prepared for Riverwoods Ridge/Boulders developments.
- Though a mitigation proposal is planned for this project, details were not provided in advance of the TRC.
- I do not see impacts calculated for the relocation of the raised beds. Strongly recommend these not be located in a wetland/wetland buffer area to allow for restoration or enhanced plantings in order to meet minimization of impact criteria.
- Use of fertilizer within the wetland buffers is prohibited. A waiver may be required if fertilizer is necessary for new plantings.
- Please confirm lighting is dark sky compliant (Site/Sub 9.20.4.3).
- Revise sediment control note to require the use of natural jute for erosion protection.
- Please specify listed species referenced in the wildlife notes on the cover. A dedicated sheet with photos of species with potential to enter the work area is common.
- The wetland note indicates a January survey date. Was there snow cover during the survey or marker location and what follow up efforts have been conducted to determine whether vernal pool habitat may be present?

Wetland CUP

- Condition 2 and 4: There is limited detail provided in terms of alternative designs that were considered and eliminated to demonstrate this proposal meets this condition. Has the applicant considered: eliminating the 18 parking spaces above town parking requirements, locating more stormwater treatment beneath the parking (gallery or porous pavement) to reduce disturbance footprint, replacing the outdoor patio with parking to locate needed parking outside of the wetland/buffer. See comment above re: relocation of raised beds.
- Condition 3: The function/values report identifies wildlife habitat impacts for wetland E. Review of the ARM Mapper stream crossings does show the culvert Dave Sharples suggested as undersized (SADES 6458). Enhancing the size of this culvert for greater hydraulic capacity and aquatic organism passage while adding wildlife crossing opportunities could be an important mitigation option to offset this loss.
- Condition 6: Though a buffer restoration area is identified on sheet C-11, it is not clear what restoration may entail. Please provide details. In addition, there appears to be an opportunity to further enhance the habitat value through additional shrub plantings and elimination of seasonal mowing.

SITE PLAN AND CONDITIONAL USE PERMIT APPLICATION

FOR

RiverWoods Supportive Living Health Center

5 White Oak Drive Exeter, New Hampshire

Tax Map 97, Lot 23

September 10, 2024

Prepared For:

RiverWoods Company at Exeter 7 Riverwood Drive Exeter, NH 03833

Prepared By:

ALTUS ENGINEERING

133 Court Street Portsmouth, NH 03801 Phone: (603) 433-2335





Conditional Use Permit: Wetland Conservation Overlay District in accordance with Zoning Ordinance Article: 9.1

SUBMITTAL REQUIREMENTS:

- 1. Refer to the Land Use Board Meeting Schedule and Deadlines for Submission Requirements.
- 2. Plans Must Include:
 - Existing Conditions
 - a. Property Boundaries
 - b. Edge of Wetland and associated Buffer (Wetlands Conservation Overlay District WCOD)
 - --Prime wetland: 100'

- --Very Poorly Drained: 50'
- --Vernal Pool (>200 SF): 75'
- --Poorly Drained: 40'
- --Exemplary Wetland: 50'
- --Inland Stream: 25'
- c. Structures, roads/access ways, parking, drainage systems, utilities, wells and wastewater disposal systems and other site improvements

Proposed Conditions

- a. Edge of Wetlands and Wetland Buffers and distances to the following:
 - i. Edge of Disturbance
 - ii. Structures, roads/access ways, parking, drainage systems, utilities, wells and wastewater disposal systems and other site improvements
- b. Name and phone number of all individuals whose professional seal appears on the plan
- 3. If applicant and/or agent is not the owner, a letter of authorization must accompany this application
- 4. Supporting documents i.e. Letters from the Department of Environmental Services, Standard Dredge and Fill Application and Photos of the property
- 5. A Town of Exeter Assessors list of names and mailing addresses of all abutters

Required Fees:		
Planning Board Fee: \$50. 00	Abutter Fee: \$10. 00	Recording Fee (if applicable): \$25. 00

The Planning Office must receive the completed application, plans and fees on the day indicated on the Planning Board Schedule of Deadlines and Public Hearings.

APPLICANT	Name: The Riverwoods Company, at Exeter, New Hampshire
	Address: 7 Riverwoods Drive, Exeter, NH 03833
	Email Address:
	Phone: 603-772-4700
PROPOSAL	Address: 7 Riverwoods Drive
	Tax Map #97 Lot# 23 Zoning District: R-1
	Owner of Record: same
Person/Business	Name: Altus Engineering
performing work	Address: 133 Court Street, Portsmouth, NH 03801
outlined in proposal	Phone: 603-433-2335
Professional that	Name: Gove Environmental Services
delineated wetlands	Address: 8 Continental Drive, Unit H, Exeter, NH 03833
	Phone: 603-778-0644

Town of Exeter Planning Board Application Conditional Use Permit: Wetland Conservation Overlay District

Detailed Proposal including intent, project description, and use of property: (Use additional sheet as needed)
See letter of explanation for project details

Wetland Conservation Overlay District Impact (in square footage):				
Temporary Impact	Wetland:	(SQ FT.)	Buffer:	(SQ FT.)
	Prime Wetlands		Prime Wetlands	
	Exemplary Wetlands		Exemplary Wetlands	
	□ Vernal Pools (>200SF)		□ Vernal Pools (>200SF)	
	🔲 VPD		🔲 VPD	
	D PD		D PD	
	Inland Stream		Inland Stream	
Permanent Impact	Wetland:		Buffer:	
	Prime Wetlands		Prime Wetlands	
	Exemplary Wetlands		Exemplary Wetlands	
	□ Vernal Pools (>200SF)		□ Vernal Pools (>200SF)	
	🔲 VPD		🗌 VPD	
	X PD	<u>19,453 s</u> f	X PD	<u>113,694</u> sf
	Inland Stream		Inland Stream	

List any variances/special exceptions granted by Zoning Board of Adjustment including dates:

see attached list

Describe how the proposal meets conditions in **Article 9.1.6.B** of the Zoning Ordinance (attached for reference). Written justification for each criterion must be provided to be deemed administratively complete.

see attached

9.1.6.B. Prior to issuance of a conditional use permit, the Planning Board shall conclude and make a part of the record, compliance with the following criteria:

- 1. That the proposed use is permitted in the underlying zoning district;
- 2. No alternative design which does not impact a wetland or wetland buffer or which has less detrimental impact on the wetland or wetland buffer is feasible;
- 3. A wetland scientist has provided an impact evaluation that includes the "functions and values" of the wetland(s), an assessment of the potential project-related impacts and concluded to the extent feasible, the proposed impact is not detrimental to the value and function of the wetland(s) or the greater hydrologic system.
- 4. That the design, construction and maintenance of the proposed use will, to the extent feasible, minimize detrimental impact on the wetland or wetland buffer;
- 5. That the proposed use will not create a hazard to individual or public health, safety and welfare due to the loss of wetland, the contamination of groundwater, or other reasons;
- 6. The applicant may propose an increase in wetland buffers elsewhere on the site that surround a wetland of equal or greater size, and of equal or greater functional value than the impacted wetland
- 7. In cases where the proposed use is temporary or where construction activity disturbs areas adjacent to the immediate use, the applicant has included a restoration proposal revegetating any disturbed area within the buffer with the goal to restore the site as nearly as possible to its original grade and condition following construction.
- That all required permits shall be obtained from the New Hampshire Department of Environmental Services Water Supply and Pollution Control Division under NH RSA §485-A: 17, the New Hampshire Wetlands Board under NH RSA §483-A, and the United States Army Corps of Engineers under Section 404 of the Clean Water Act.;

RIVERWOODS SPECIAL EXCEPTIONS OR VARIANCES BY THE ZBA

DATED	RELIEF GRANTED
July 17, 1990	Special Exception for "Continuing Care Retirement Faciity" (the
	"Woods")
September 20, 1990	Amendment to condition of previous SE to increase nursing home beds
	from 50 to 60
February 20, 1991	Special Exception to allow: chimney exceeding allowable height;
	ornamental towers exceeding allowable height; construction of bridge
	over poorly drained soils; construct a portion of the structure on poorly
	drained soils.
June 19, 1991	Amendment to condition of previous SE to permit a change in the
	location of the access road
August 6, 2007	Special Exception to permit "Elderly Congregate Care Facility (the
	"Ridge")
April 17, 2008	Special Exception to permit "Elderly Congregate Care Facility (the
	"Boulders")
February 18, 2011	Special Exception to permit "Elderly Congregate Care Facility (Admin
	Building)
	Amendment to Feb. 2011 Special Exception for slight increase in total
July 25, 2011	square footage of Admin Building
	Special Exception to permit the construction of an outdoor park and
August 22, 2011	recreation area as an accessory use



Civil Site Planning Environmental Engineering 133 Court Street Portsmouth, NH 03801-4413

September 10, 2024

Dave Sharples, Town Planner Planning Department, Town of Exeter 10 Front Street Exeter, NH 03833

Re: Conditional Use Permit Application RiverWoods Supportive Living Health Center Tax Map 97, Lot 23 5 White Oak Drive Exeter, New Hampshire Altus Project No. 5015

Dear Mr. Sharples,

Pursuant to our Conditional Use Permit Application for the above referenced project, we respectfully submit the following to address the criteria listed under Section 9.1.6.B of the Zoning Ordinance:

- 1. The proposed use is an elderly congregate care facility which was originally permitted in the R-1 zone by special exception.
- 2. After exploring numerous concepts, any layout for a similar development program was found to impact the 100' perimeter buffer. A previous variance request for relief from this regulation was denied by the Zoning Board. However, we have tailored the design to minimize impacts to the wetland and wetland buffer to the greatest degree possible.
- 3. Gove Environmental Services has conducted a full functions and values assessment which will be included in the forthcoming wetlands which is attached to this application.
- 4. The design incorporates retaining walls and steep slopes where possible in order to minimize wetland and buffer impacts.
- 5. As designed, the project will not present any hazard to public health, safety or welfare. The proposed stormwater system will provide for appropriate treatment of runoff prior to discharging it to the surrounding wetland system as well as allow for groundwater recharge.
- 6. Expanded wetland buffers are not included in the proposal due to the fact that there is no space to expand them in this vicinity. In addition, the remainder of the site is either already

developed, subject to the 100' perimeter buffer, or already in conservation or some other form of easement. However, approximately 11% of the buffer impact is for restoration purposes where an existing house, driveway and septic system are being removed. Additional mitigation for the project's wetland impacts will be included in the forthcoming wetlands permit application.

- 7. No temporary impacts are included in the proposal. However, the planned erosion control measures will provide for erosion and sediment control for the duration of the project.
- 8. Applications for the required NHDES permits are currently being prepared. We would expect that receipt of them would be a condition of Planning Board approval.

Please feel free to contact me directly if you have any questions or require any additional documentation. Thank you for your time and consideration.

Sincerely,

ALTUS ENGINEERING

23:00

Erik B. Saari Vice President

ebs/5015-LTR-CUP-091024



Civil Site Planning Environmental Engineering

133 Court Street Portsmouth, NH 03801-4413

November 1, 2024

Dave Sharples, Town Planner Planning Department, Town of Exeter 10 Front Street Exeter, NH 03833

Re: Conditional Use Permit Application RiverWoods Supportive Living Health Center Tax Map 97, Lot 23 5 White Oak Drive Exeter, New Hampshire Altus Project No. 5015

Dear Mr. Sharples:

As you know, we submitted a Conditional Use Permit application on September 10, 2024 which is scheduled to be reviewed by the Conservation Commission on November 12. Since our original submittal, the design has altered somewhat, therefore please accept these revised comments regarding our compliance with the criteria listed under Article 9, Section 9.1.6.B of the Exeter Zoning Ordinance. These revised materials supersede those in the original submission.

Compliance with Criteria of Zoning Ordinance

- 1. The proposed use of a centralized health center and associated parking for an elderly congregate care facility is permitted in the underlying zoning district since it will occur on a property which was granted a special exception for the same.
- 2. We have found no feasible alternative design which does not impact the wetland or wetland buffer or which would minimize such impact on the wetland or wetland buffer.

The design of the centralized health center has been constrained from the start by the fact that while RiverWoods owns more than 200 acres of property, very little of that is available for the proposed improvements due to the fact that there are conservation restrictions on large portions of it. Similarly, the existence of a gas line easement also constrains the site. Finally, any land which is not already subject to conservation restrictions or other easements is encumbered by a buffer at the perimeter of the entire property as required the by the Exeter Zoning Ordinance.

In addition to the external factors constraining the site, the design also has to account for the underlying purpose of the use and the size of the building required to effectuate this purpose. Specifically, the objective of the centralized health care facility is not only to consolidate services currently spread out over three campuses, but also to provide additional services which meet today's industry standards including memory care which is not currently offered at RiverWoods. These factors combined mean that the facility needs to be sized properly to be able to achieve these goals.

As a result of these external constraints and the need for a building sized as shown to implement the goals of a central facility, the only location available for the proposed health center is the that shown proposed on the plan.

- 3. The wetland report from Gove Environmental Services provides evidence showing the functions and values of the wetlands in the area to be developed and shows the impacts to such wetlands. The report also concludes that to the extent feasible, the proposed development is not detrimental to the function and value of the wetlands or the greater hydrologic system. Of particular note is that the wetlands in the area of development are generally of lower value than that of other wetlands on the property (See Section I. IV of Major Impact Dredge and Fill Application, hereinafter "Wetlands Application"; Section 5, Written Narrative; Section 5, Relative Function and Value of Wetlands Delineation Report, Page 2 of 2, copies of which are enclosed).
- 4. The design and construction of the proposed improvements will to the extent feasible be accomplished in a manner so as to minimize detrimental impact to the wetland and wetland buffer. Where possible, the plans utilize retaining walls and steep slopes to emphasize vertical development and reduce the wetland or wetland buffer area that would otherwise be needed. Reducing the amount of land area needed means that the detrimental impact to the wetland of wetland buffer will be minimized. Further, we intend to use bioretention pond (aka raingardens) as part of the design to appropriately treat stormwater to improve the quality of the runoff.
- 5. The proposed development of a centralized health care center as designed will not create a hazard to individuals or to the public health, safety or welfare by loss of wetlands because, as noted in the wetland report, the function and value of the subject wetlands is generally of lower value than other wetlands on the property and, to the extent that any of the wetlands do have higher value, then the loss of such wetlands will not result in a hazard to individuals or to the public health safety or welfare because we are minimizing stormwater peak rates and thus minimizing the risk of flooding. Additionally, for the stormwater that does leave the property, no hazard will be created as it will be properly treated in accordance with State and local regulations.
- 6. The applicant is not proposing an increase in wetland buffers elsewhere on the site as the remainder of it is already developed or protected by existing conservation restrictions. Notwithstanding the applicant's inability to provide expanded buffers, the applicant does propose that a portion of the buffer impact be used for restoration purposes where an existing house, driveway and septic system are being removed. Moreover, the applicant is making a contribution to the States Aquatic Resources Mitigation (ARM) fund and placing 3.73 acres of land into conservation restriction status and which will offset the 2.61 acres of wetland buffer to be disturbed. The proposed area to be conserved is adjacent to an

existing conservation easement held by SELT and the acreage will consist of both upland and wetland.

- 7. Only a small 84 sf section of temporary wetland impact is proposed in association with the removal of a driveway culvert in the buffer restoration area. There are no other temporary impacts included in the proposal. However, the planned erosion control measures will provide for erosion and sediment control for the duration of the project.
- 8. The Wetlands Application has been submitted and we expect that the NHDES Alteration of Terrain and Sewer Discharge permits will be filed in the coming weeks.

Please feel free to contact me directly if you have any questions or require any additional documentation. Thank you for your time and consideration.

Sincerely,

ALTUS ENGINEERING

23: Ci

Erik B. Saari Vice President

ebs/5015.01e-LTR-CUP-110124



GOVE ENVIRONMENTAL SERVICES, INC

September 9, 2024

Erik Saari Altus Engineering, Inc. 133 Court Street Portsmouth, NH 03801

Subject: Wetland Delineation & Function-Value Report Riverwoods Supportive Living Health Center 5 White Oak Drive Exeter, NH

Dear Mr. Saari:

This wetland report is being submitted in connection with the proposed development of a Supportive Living Health Center at 5 White Oak Drive on the Riverwoods campus in Exeter, NH. This report documents the delineation and functional assessment of wetland resources in the vicinity of the proposed work as well as an evaluation of the proposed work within the context Section 9.1 of the Exeter Zoning Ordinance (Wetland Conservation District).

WETLAND DELINEATION

Resource areas on this property were delineated in January of 2023 by Brendan Quigley, NHCWS #249 utilizing the following standards:

- 1. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, (Version 2.0) January 2012, U.S. Army Corps of Engineers.
- 2. *Field Indicators of Hydric Soils in the United States, A Guide for Identifying and Delineating Hydric Soils,* Version 8.2. United States Department of Agriculture (2018).
- 3. 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.
- 4. National Wetland Plant List, Version 3.2 (2016).

Wetland boundaries were surveyed by James Vera & Associates, Inc. and are depicted on the plans submitted separately for approvals. The identified wetland areas are depicted on the attached figure and have been given unique designations for the purpose of discussion. Several photos of the wetlands have also been included. Five (5) areas of wetland were identified in the project area:

Wetlands A, B, C, and D

These four areas consist of three small pockets of wetland and a narrow extension of a larger wetland system associated with Scamen Brook, east of the Site. These areas lie in close proximity to the existing administration building, White Oak Drive, and related developed areas. They are largely isolated from one another but are connected via small culverts and drain east toward Scamen Brook. All four areas are predominantly forested wetland dominated by red maple, and sensitive fern but are densely vegetated with invasive woody species such as common and glossy buckthorn, oriental bittersweet, bush honeysuckle, and autumn olive. Generally, this type of growth is characteristic of long fallow fields and areas around old farms

Wetland E

Wetland E is a more natural forested wetland, also dominated by red maple, that constitutes the headwaters of Scamen Brook. The main body of the wetland follows the west to east drainage path of Scamen Brook which is carried under White Oak Drive by a pair of 18" culverts. A portion of this wetland is supported by hillside seep hydrology and extends up the hill south of the wetland and toward the proposed project.

Function &Value Assessment

A wetland function and value 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 and 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 does not 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.
- 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 functions and values identified in the wetlands are described in the following sections.

Wetlands A, B, C, & D

The principal functions of these four wetlands were determined to be Sediment/Toxicant/Pathogen Retention, Flood flow Alteration, and Wildlife Habitat. The water quality and flood flow alteration functions are supported due to their location upstream of Scamen Brook and their restricted flow path. This restricted flow is mainly the result of segmentation but does enable treatment and flood attenuation by storing runoff and slowly releasing it downstream. These functions are supported at a modest level due to the overall small size of the wetlands and limited development within their watershed. The wetlands also support general Wildlife Habitat, mostly by way of dense cover favored by small mammals. Since these wetlands lack surface hydrology, they do not support wetland specific wildlife habitat and the proximity of development greatly limits their habitat value overall.

Wetland E

Sediment/Toxicant/Pathogen Retention and Wildlife Habitat were determined to be the principal functions of Wetland E. These are derived from its more significant surface hydrology, closer association with Scamen Brook, and connectivity to larger forested wetland habitat to the west. These attributes enhance the wildlife and Water quality function of the wetland in comparison to wetlands A, B, C, & D. Flood flow alteration was not considered a function of Wetland E since very little storage capacity was noted. Groundwater discharge has also been considered as a secondary function as evidenced by the hillside seep along its southern slope.

RELATION TO THE PROPOSED DEVELOPMENT

A Conditional Use Permit (CUP) is being sought for proposed wetland and wetland buffer impacts within the Wetlands Conservation Overlay District associated with construction of the project. This section provides an assessment of the impacts in accordance with Article 9.1.6.B.3 of the Wetland Conservation District CUP Criteria:

A wetland scientist has provided an impact evaluation that includes the "functions and values" of the wetland(s), an assessment of the potential project-related impacts and concluded to the extent feasible, the proposed impact is not detrimental to the value and function of the wetland(s) or the greater hydrologic system.

A functional evaluation of the wetlands is provided in the previous sections of this letter. Direct impacts are proposed to Wetlands A, B, C, and D with wetland B, and C being impacted in their entirety. The principal functions of the water quality and flood flow alteration supported in these areas should be adequately compensated for by the inclusion of comprehensive stormwater management and maintenance

Wetland Delineation & Function-Value Report Riverwoods Supportive Living Health Center 5 White Oak Drive Exeter, NH September 9, 2024—Page 4

of the overall flow path. These impacts should have no significant effect on Scamen Brook or the larger wetland system. The modest wildlife habitat in these areas will be lost. Considering the existing development and already segmented nature of this habitat, its loss should not have a significant effect on overall habitat. Similar and better quality habitat is readily available in the areas west and east of the Site. The habitat value in the immediate vicinity will also be enhanced by restoration of buffer area to either side of Wetland D which currently consists of a driveway and maintenance/storage area adjacent to a residential structure.

Wetland E will not be directly impacted, impacts in this location are to the buffer only. A significant portion of this impact takes place within White Oak Drive and the immediately adjacent slopes. If proper erosion control is employed during the work this will have no effect on the functions of the wetland. Buffer impacts are also proposed to construct a stormwater basin and a small portion of a parking lot. This impact will occur in naturally wooded buffer which provides vegetated area for water quality and additional screening for wildlife habitat. The loss of forested buffer may result in a small loss of capacity for water quality function, but this will be mitigated by the addition of stormwater management with no significant overall effect on the larger wetland system. The loss of wildlife habitat function resulting from these impacts will be very minimal. The proposed stormwater basin and grading constitute a softer edge than paved surface of which there is only a small amount in the 75-foot buffer. Habitat function loss is also mitigated by the fact that the buffer in this area originates from the hillside seep extension of the wetland. The core wetland habitat to which the buffer provided screening lies well downslope.

This concludes the wetland delineation and wetland functional assessment report. If I can be of further assistance, please feel free to contact me at (603) 778-0644.

Sincerely,

Brendan Quigley, NHCWS Gove Environmental Services, Inc.

Wetland Sketch Photos





Wetland Photos Riverwoods Supportive Living Health Center 5 White Oak Drive Exeter, NH



Photo 1—Wetland A



Photo 2—Trail between Wetlands A and B (A to right, B to the left)

Wetland Photos Riverwoods Supportive Living Health Center 5 White Oak Drive Exeter, NH



Photo 3—Wetland B



Photo 4—Driveway between Wetlands C and D (C to right, D to the left)

Wetland Photos Riverwoods Supportive Living Health Center 5 White Oak Drive Exeter, NH



Photo 5—Wetland C

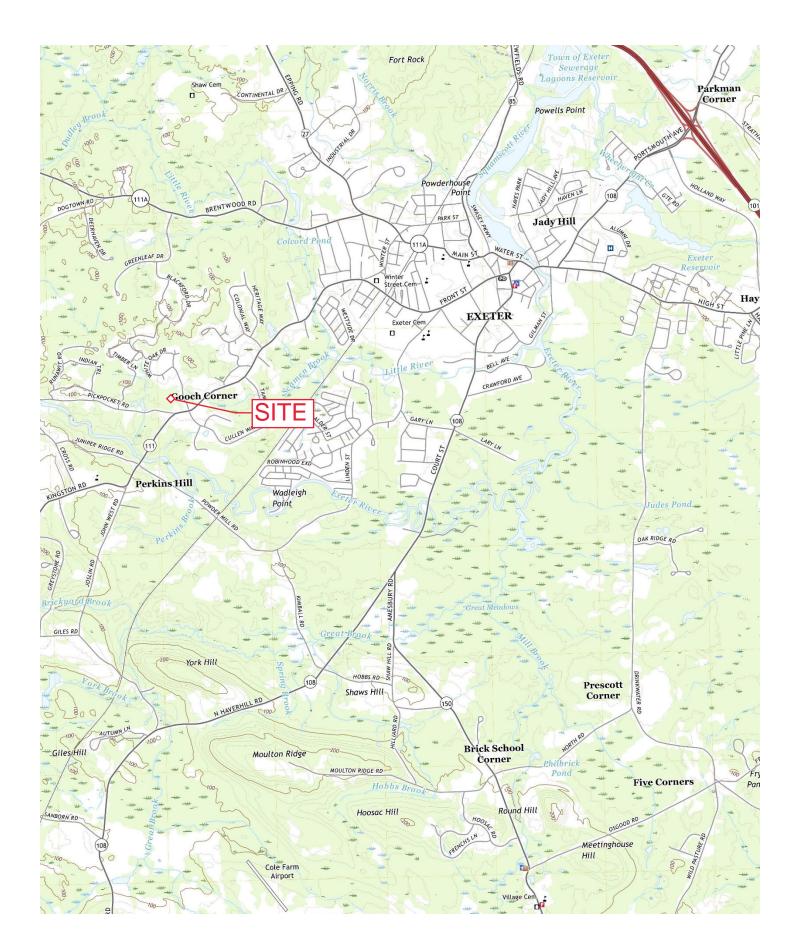


Photo 6—Wetland D

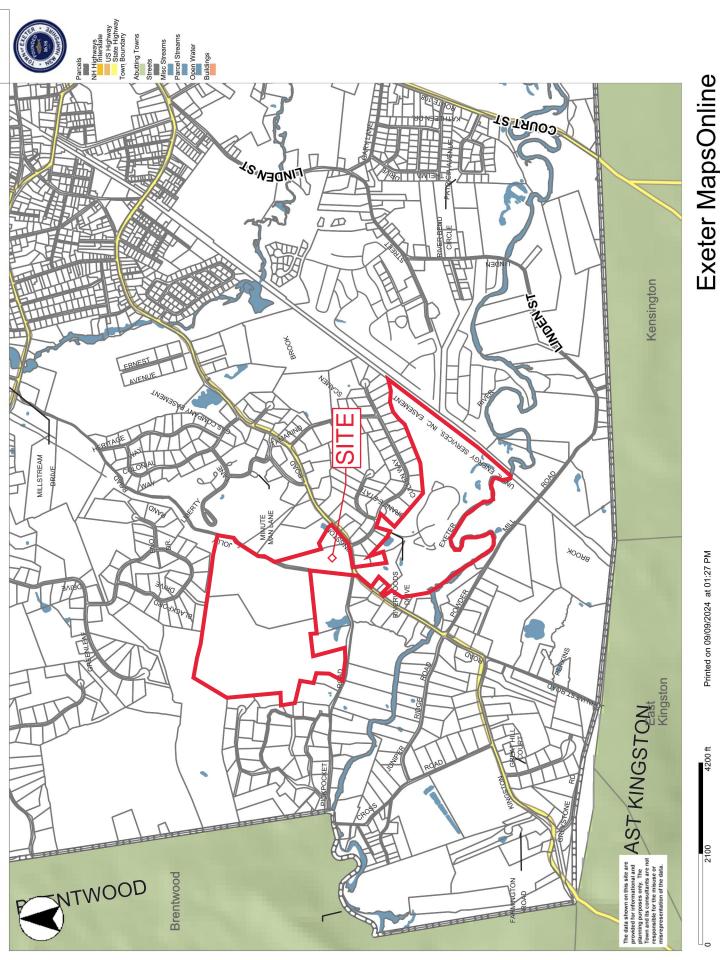
Section 4

USGS Map Aerial Photo Tax Map FIRM







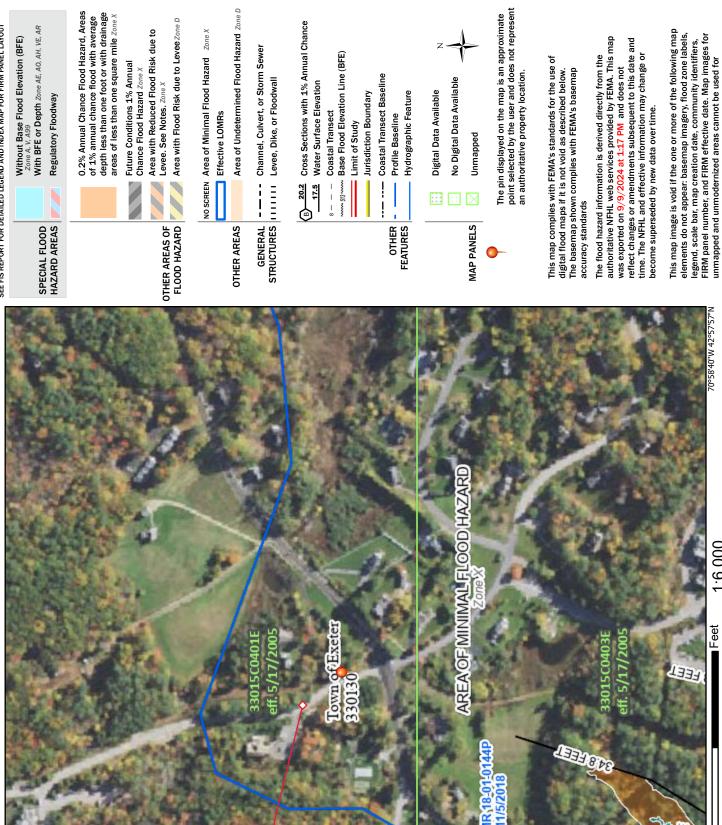


National Flood Hazard Layer FIRMette

0°59'18"W 42°







Т С

Basemap Imagery Source: USGS National Map 2023

regulatory purposes.

d'/dv24 W''04'8dv0.

1:6,000

Feet 2,000

1,500

1,000

250

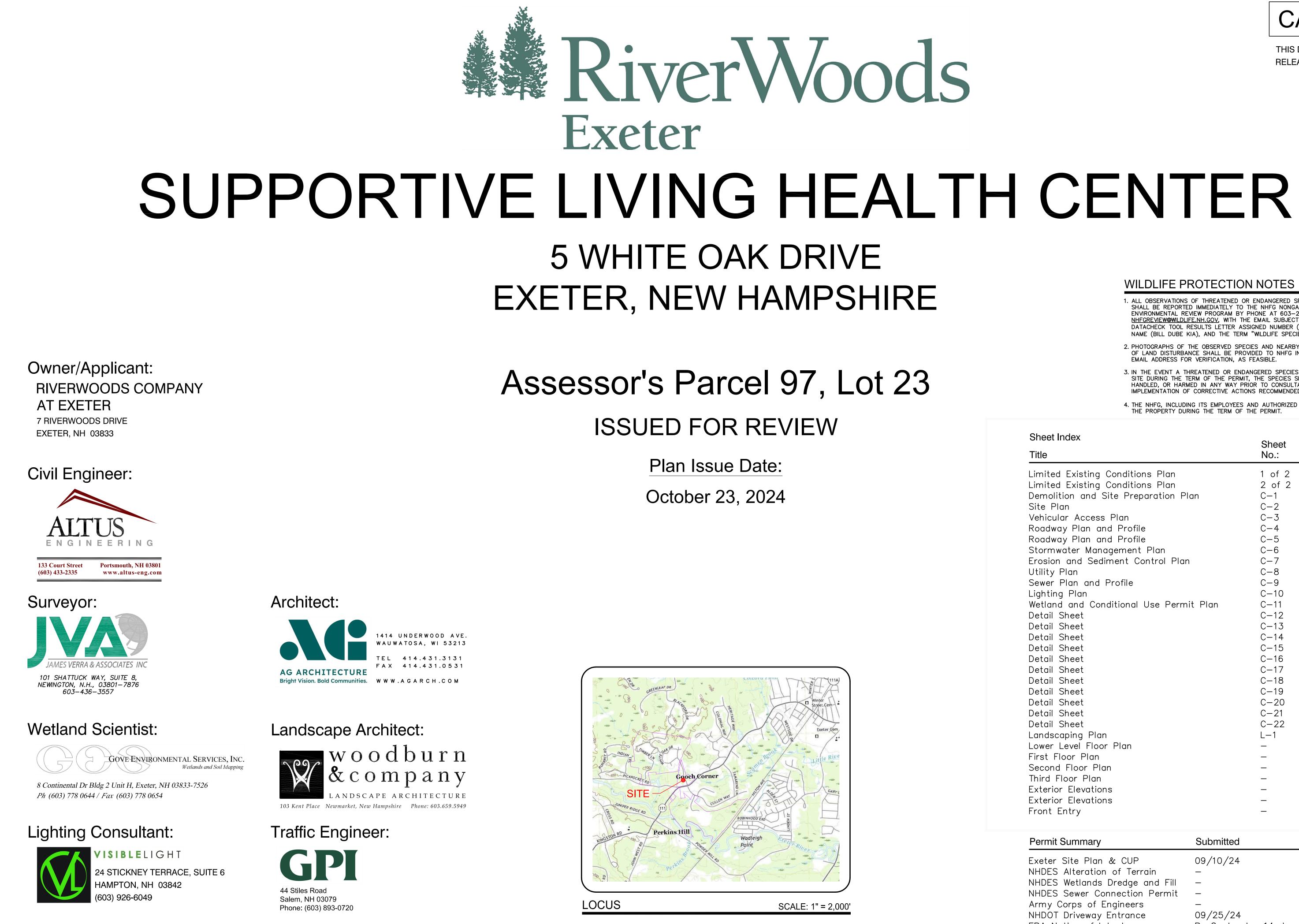
500

Section 7

Project Plans

(under separate cover in hard copy)





CASE #24-16

THIS DRAWING SET HAS NOT BEEN **RELEASED FOR CONSTRUCTION**

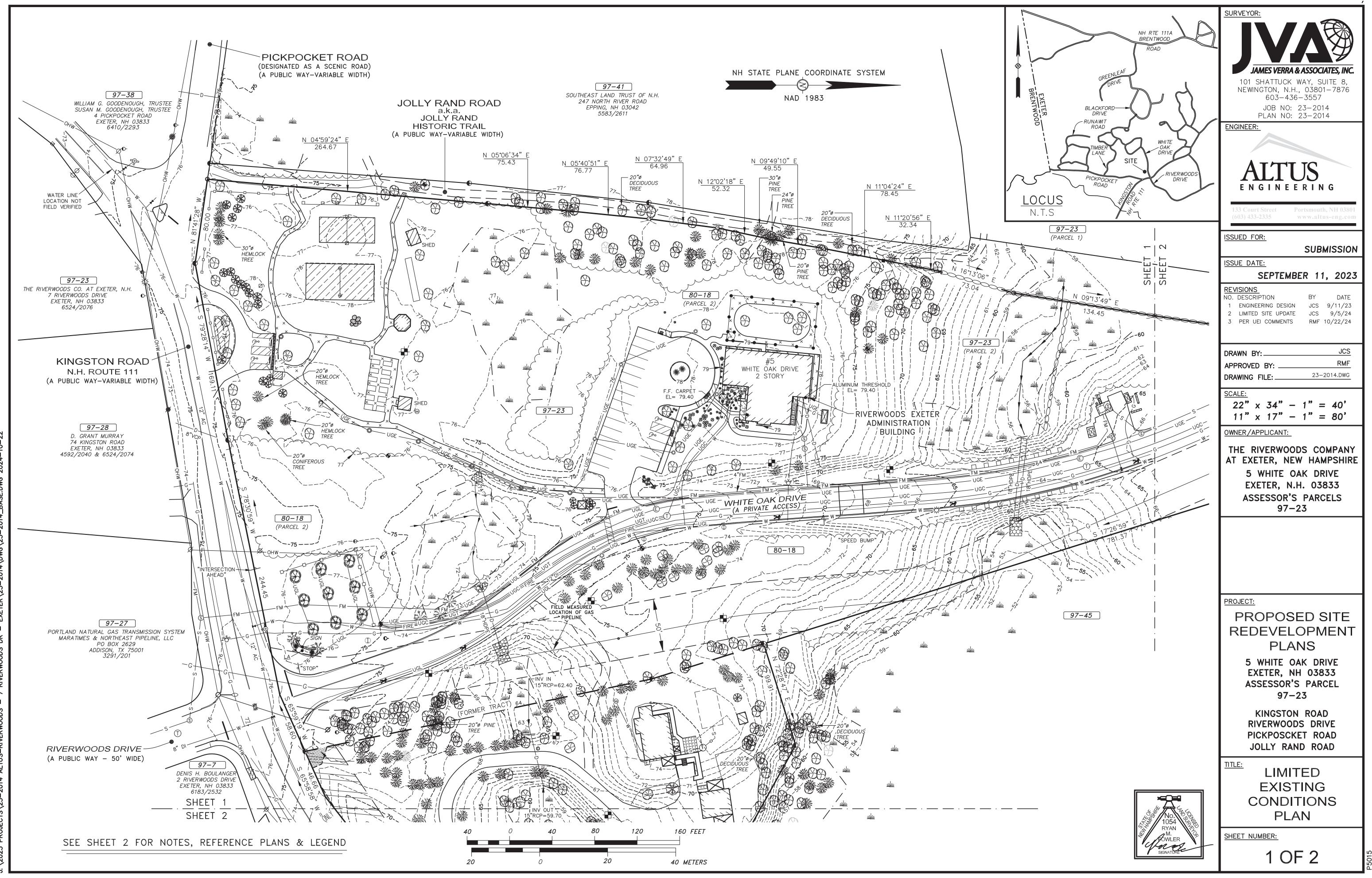
WILDLIFE PROTECTION NOTES

- OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NHFG NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING THE NHB DATACHECK TOOL RESULTS LETTER ASSIGNED NUMBER (NHB 24-0142), THE PROJECT (BILL DUBE KIA). AND THE TERM "WILDLIFE SPECIES OBSERVATION"
- PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE.
- THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT. THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHEG
- 4. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

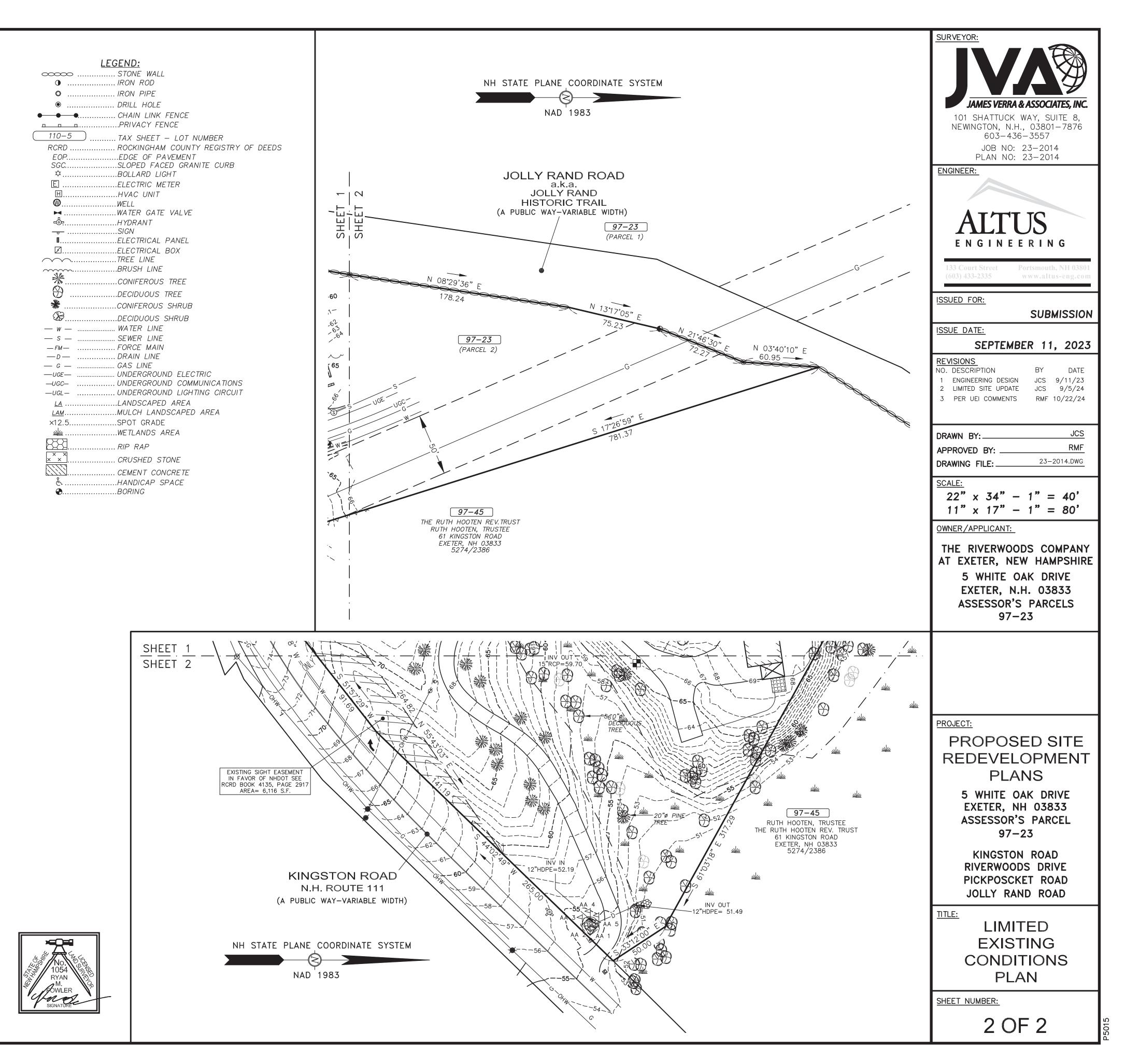
Sheet Index

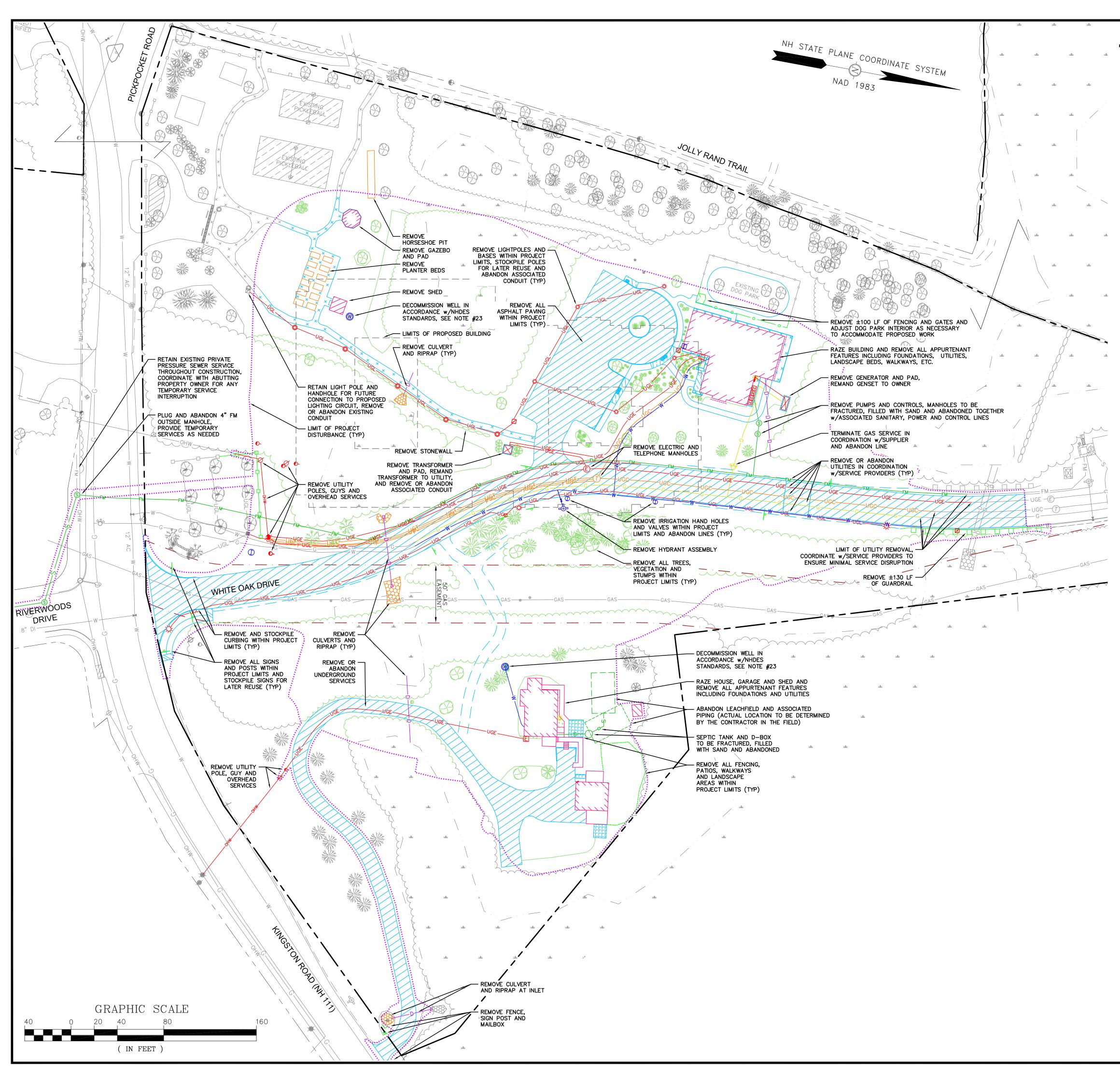
Title	Sheet No.:	Rev.	Date
Limited Existing Conditions Plan	1 of 2	1	09/11/23
Limited Existing Conditions Plan	2 of 2	1	09/11/23
Demolition and Site Preparation Plan	C-1	1	10/23/24
Site Plan	C-2	1	10/23/24
Vehicular Access Plan	C-3	1	10/23/24
Roadway Plan and Profile	C-4	1	10/23/24
Roadway Plan and Profile	C-5	1	10/23/24
Stormwater Management Plan	C-6	1	10/23/24
Erosion and Sediment Control Plan	C-7	1	10/23/24
Utility Plan	C-8	1	10/23/24
Sewer Plan and Profile	C-9	0	10/23/24
Lighting Plan	C-10	1	10/23/24
Wetland and Conditional Use Permit Plan	C-11	1	10/23/24
Detail Sheet	C-12	1	10/23/24
Detail Sheet	C-13	1	10/23/24
Detail Sheet	C-14	1	10/23/24
Detail Sheet	C-15	1	10/23/24
Detail Sheet	C-16	1	10/23/24
Detail Sheet	C-17	1	10/23/24
Detail Sheet	C-18	1	10/23/24
Detail Sheet	C-19	1	10/23/24
Detail Sheet	C-20	1	10/23/24
Detail Sheet	C-21	1	10/23/24
Detail Sheet	C-22	0	10/23/24
Landscaping Plan	L-1	0	09/10/24
Lower Level Floor Plan	_	0	07/24
First Floor Plan	_	0	07/24
Second Floor Plan	_	0	07/24
Third Floor Plan	_	0	07/24
Exterior Elevations	_	0	07/24
Exterior Elevations	_	0	07/24
Front Entry	_	0	07/24
			·

Permit Summary	Submitted	Received
Exeter Site Plan & CUP	09/10/24	_
NHDES Alteration of Terrain	_	_
NHDES Wetlands Dredge and Fill	_	—
NHDES Sewer Connection Permit	_	—
Army Corps of Engineers	_	_
NHDOT Driveway Entrance	09/25/24	_
EPA Notice of Intent	By Contractor 14 day	s prior to construction



1.	<u>NOTES:</u> OWNER OF RECORD THE RIVERWOODS COMPANY AT EXETER, NEW HAMPSHIRE ADDRESS
	SEE VOLUNTARY LOT MERGER DATED 2/29/2024 MERGING TAX PARCELS 97–23, 97–29, 97–44, 98–37, & 80–18 INTO PARCEL 97–43. SEE RCRD BOOK 6534, PAGE 2917.
2.	ZONED:
3.	* REDUCED FROM 2 ACRES WHEN SERVED BY MUNICIPAL WATER & SEWER ON SITE CONTROL ESTABLISHED USING SURVEY GRADE GPS UNITS. HORIZONTAL DATUM: RIVERWOODS "SITE" VERTICAL DATUM: RIVERWOODS "SITE" UNITS: U.S. SURVEY FOOT
4.	THE RELATIVE ERROR OF CLOSURE WAS LESS THAN 1 FOOT IN 15,000 FEET.
5.	THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES (IE CATCH BASINS, MANHOLES, WATER GATES ETC.) AND INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENTAL AGENCIES. ALL CONTRACTORS SHOULD NOTIFY, IN WRITING, SAID AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE @ 1-888-DIG-SAFE.
6.	MONUMENTS SHOWN HEREON WERE FOUND UNLESS NOTED OTHERWISE.
7. 8.	THIS PLAN IS BASED UPON SURVEY WORK CONDUCTED BY THIS OFFICE 9/2006 TO 8/2024. WETLANDS DELINEATION PERFORMED 1/2023 BY BRENDAN J. QUIGLEY, NHCWS# 249, OF GOVE ENVIRONMENTAL SEVICES, INC., 8 CONTINENTAL DR, BLDG 2, UNIT H, EXETER, NH 03833–7507. WETLANDS FLAGS WERE SURVEY LOCATED BY JAMES VERRA AND ASSOCIATES, INC.
	 WETLANDS WERE DELINEATED BY GOVE ENVIRONMENTAL SERVICES INC. ON 1/2023 UTILIZING THE FOLLOWING STANDARDS: REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS. FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, VERSION 8.2. UNITED STATES DEPARTMENT OF AGRICULTURE (2018). NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE. 2020 VERSION 4, FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND. NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL
	COMMISSION, LOWELL, MA. 4. U.S. ARMY CORPS OF ENGINEERS NATIONAL WETLAND PLANT LIST, VERSION 3.5. (2020)
9.	CONTRACTOR TO VERIFY SITE BENCHMARKS BY LEVELING BETWEEN 2 BENCHMARKS PRIOR TO THE SETTING OR ESTABLISHMENT OF ANY GRADES/ELEVATIONS. DISCREPANCIES ARE TO BE REPORTED TO JAMES VERRA AND ASSOC., INC.
10.	PARCELS 80–18 (PARCEL 2) & 97–44 LIE IN FLOOD HAZARD AREA ZONE X (UNSHADED), AREA OF MINIMAL FLOOD HAZARD, AS SHOWN ON FLOOD INSURANCE RATE MAP 33015C0401E, EFFECTIVE DATE 5/17/2005 AND AS SHOWN ON LOMR 18–01–0144P, EFFECTIVE DATE 11/5/2018.
11.	PARCEL 97—44 IS SUBJECT TO A HIGHWAY EASEMENT IN FAVOR OF THE STATE OF N.H., SEE RCRD BOOK 6449, PAGE 1193 & RCRD PLAN D—43603 (REF. PLAN 14).
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	 REFERENCE PLANS: LOT LINE ADJUSTMENT PLAN OF LAND AND EASEMENT PLAN, PICKPOCKET, KINGSTON AND JULY RAND ROADS, EXETER, N.H., REVISED TO 8–1–03, RCRD PLAN D–30933, SHEETS 1 & 2. BLACKFORD PLACE SUBDIVISION FOR TUCK REALTY CORP., GREENLEAF DRIVE, EXETER, N.H., SHEETS 1–6, RCRD PLAN D–2099. SUBDIVISION OF LAND, PAUL HOLLOWAY, JR., PICKPOCKET ROAD, EXETER, N.H., DATED 15–1978, RCRD PLAN D–8534. PLAT OF LAND FOR MARTHA M. PENNELL, EXETER, N.H., DATED 5–1980, RCRD PLAN D–9607. PROPERTY OF NORMAN HOLDER, SUBDIVISION OF 2–LOTS, EXETER, ROCKINGHAM COUNTY, NEW HAMPSHIRE, DATED 6–6–6–192, RCRD PLAN C–3008. SUBDIVISION OF LAND FOR DOROTHY C, HAM IN EXETER, N.H., REVISED TO 3–1986, RCRD PLAN D–9033. LIMITED SUBDIVISION FOR GARY RATMOND & LUARIE TOBIN–RAYMOND IN EXETER, N.H., REVISED TO 3–1986, RCRD PLAN D–19911. CONSERVATION EASEMENT PLAN, THE BOULDERS AT RIVERWOODS & THE RIDGE AT RIVERWOODS, JOLLY RAND ROAD, PICKPOCKET ROAD & WHITE OAK DRIVE, EXETER, N.H., FOR THE RIVERWOODS, SOLLY RAND ROAD, PICKPOCKET ROAD & WHITE OAK DRIVE, EXETER, N.H., FOR THE RIVERWOODS GOMPANY AT EXETER, N.H., DATED 11/18/2008, RCRD PLAN D–33032. PLAN THE RIDGE AT RIVERWOODS, KINGSTON, NN, FOR THE RIVERWOODS GOMPANY AT EXETER, N.H., DATED 11/18/2008, RCRD PLAN D–35705. EVISTING CONDITIONS PLAN, D–35705. EVISTING CONDITIONS PLAN, FOR THE RIVERWOODS, COMPANY AT EXETER, N.H., DATED 3/22/2022, RCRD PLAN D–35705. EVISTING CONDITIONS PLAN, FOR THE RIVERWOODS COMPANY AT EXETER, N.H., DATED 3/22/2022, RCRD PLAN D–35254. EXISTING CONDITIONS PLAN, TY KINGSTON ROAD, EXETER, N.H., FOR THE RIVERWOODS COMPANY AT EXETER, N.H., DATED 3/22/2022, RCRD PLAN D–43254. EXISTING CONDITIONS PLAN, TY KINGSTON ROAD, EXETER, N.H., REVISED TO 12/10/2020, RCRD PLAN D–43603.
	40 0 40 80 120 160 FEET 40 0 40 80 120 160 FEET 40 0 20 40 METERS

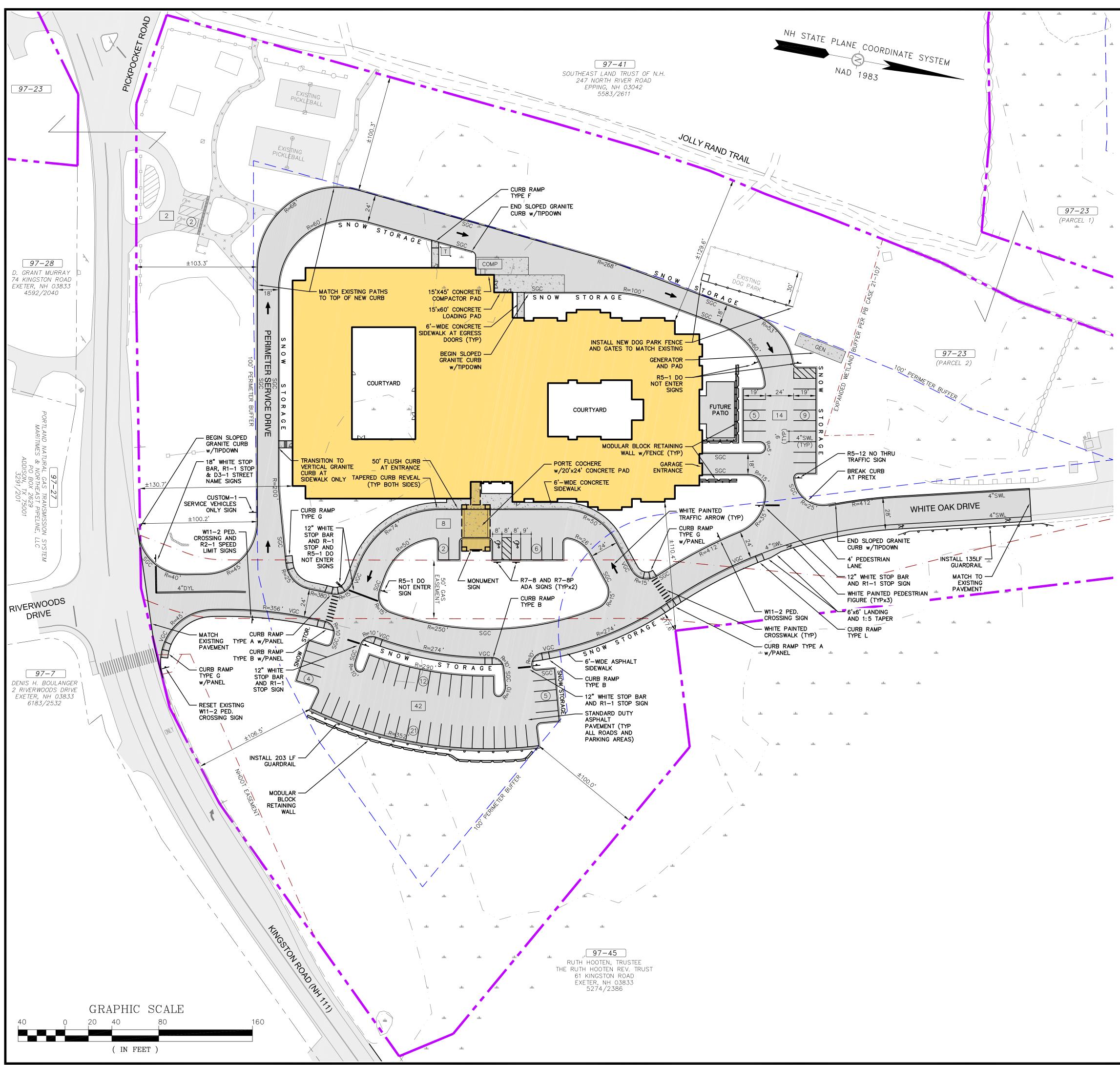




DEMOLITION NOTES

- 1. LOCAL DEMOLITION PERMIT REQUIRED PRIOR TO ANY BUILDING DEMOLITION ACTIVITIES. CONTRACTOR IS NOTIFIED THAT THIS PERMIT PROCESS MAY REQUIRE A 30-DAY LEAD TIME.
- 2. CONTRACTOR SHALL SAFELY SECURE THE SITE AND WORK LIMITS WITH SECURITY FENCING WHICH SHALL BE LOCKED DURING NON-WORK HOURS. KNOX BOX TO BE PROVIDED ON FENCING. CONTRACTOR SHALL COORDINATE WITH LOCAL FIRE DEPARTMENT FOR KEYING.
- 3. CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES SCHEDULED TO REMAIN.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY NOTIFICATION OF ALL PARTIES, CORPORATIONS, COMPANIES, INDIVIDUALS AND STATE AND LOCAL AUTHORITIES OWNING AND/OR HAVING JURISDICTION OVER ANY UTILITIES RUNNING TO, THROUGH OR ACROSS AREAS TO BE DISTURBED BY DEMOLITION AND/OR CONSTRUCTION ACTIVITIES WHETHER OR NOT SAID UTILITIES ARE SUBJECT TO DEMOLITION, RELOCATION, MODIFICATION AND/OR CONSTRUCTION.
- 5. ALL UTILITY DISCONNECTIONS/DEMOLITIONS/RELOCATIONS SHALL BE COORDINATED BETWEEN THE CONTRACTOR, ALL APPROPRIATE UTILITY COMPANIES, LOCAL DPW AND ABUTTING PROPERTY OWNERS. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELATED EXCAVATION, TRENCHING AND BACKFILLING.
- 6. WHERE SPECIFIED TO REMAIN, MANHOLE RIMS, CATCH BASIN GRATES, VALVE COVERS, HANDHOLES, ETC. SHALL BE ADJUSTED TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.
- 7. SEE EROSION CONTROL PLANS FOR EROSION AND SEDIMENT CONTROL MEASURES THAT SHALL BE IN PLACE PRIOR TO DEMOLITION ACTIVITIES.
- 8. ALL MATERIALS SCHEDULED FOR DEMOLITION OR REMOVAL ON PRIVATE PROPERTY SHALL REMAIN THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ITEMS INDICATED TO BE STOCKPILED SHALL BE REUSED ON-SITE IF DEEMED SUITABLE BY THE ENGINEER.
- 9. ALL MATERIAL SCHEDULED TO BE REMOVED SHALL BE LEGALLY DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS/CODES.
- 10. CONTRACTOR TO CONTACT LOCAL DPW A MINIMUM OF TWO WEEKS PRIOR TO ANY DEMOLITION TO COORDINATE ALL WORK CONCERNING DISCONNECTION/DEMOLITION OF ANY PROPOSED WATER AND SEWER LINE IMPROVEMENTS. EXETER DPW: (603) 773-6157.
- 11. ALL WATER MAIN AND SERVICE DISCONNECTIONS SHALL CONFORM TO LOCAL DPW STANDARDS.
- 12. NO BURNING SHALL BE PERMITTED PER LOCAL REGULATIONS.
- 13. HAZARDOUS MATERIALS ENCOUNTERED DURING DEMOLITION AND CONSTRUCTION ACTIVITIES SHALL BE ABATED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS.
- 14. EXISTING UTILITIES TO BE DISCONTINUED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED TO BE REMOVED OR ENCOUNTERED DURING THE INSTALLATION OF NEW WORK. ALL CONDUIT, CULVERT OR PIPE TO BE ABANDONED THAT IS 6" OR GREATER IN SIZE SHALL BE FILLED WITH FLOWABLE FILL.
- 15. IN AREAS WHERE CONSTRUCTION IS TO BE ADJACENT TO ABUTTING PROPERTIES, THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING ALONG THE PROPERTY LINE IN ALL AREAS WHERE PERIMETER SEDIMENT CONTROLS OR SITE SECURITY FENCING IS NOT OTHERWISE REQUIRED.
- 16. LOCATIONS OF PAVEMENT REMOVAL & SAWCUT LIMITS ARE SHOWN TO DEPICT THE GENERAL LIMITS OF WORK. CONTRACTOR'S MEANS & METHODS & PAVEMENT CONDITION WILL DICTATE THE EXACT LIMITS OF PAVEMENT REMOVAL.
- 17. SHOULD GROUNDWATER BE ENCOUNTERED DURING EXCAVATION, APPROPRIATE BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED TO ENSURE SEDIMENT LADEN WATER IS NOT DISCHARGED INTO AN EXISTING DRAINAGE SYSTEM OR ADJACENT WETLANDS.
- 18. THE LOCATION(S) OF EXISTING WATER, SEWER, GAS, ELECTRIC, COMMUNICATIONS AND OTHER SERVICES TO THE EXISTING BUILDINGS ARE APPROXIAMTE AND OTHER UNKNOWN UTILITY SERVICES MAY EXIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING WHATEVER EXPLORATORY INVESTIGATIONS ARE REQUIRED TO ASCERTAIN THE SIZE, LOCATION AND DEPTH OF THESE SERVICES. CONTRACTOR SHALL TERMINATE THESE EXISTING SERVICES AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH LOCAL STANDARDS.
- 19. ALL ELECTRIC, TELEPHONE, WATER, SEWER AND OTHER UTILITY STRUCTURES TO REMAIN SHALL BE RELOCATED OR ADJUSTED TO PROPOSED FINISH GRADE AS APPROPRIATE. EXISTING PEDESTRIAN-RATED STRUCTURES IN PROPOSED PAVEMENT AREAS SHALL BE REPLACED WITH H-20 RATED STRUCTURES.
- 20. SOME DEMOLITION WORK AND UTILITY DISCONNECTIONS CALLED FOR ON THIS PLAN MAY HAVE PREVIOUSLY OCCURRED. THE CONTRACTOR SHALL EVALUATE THE EXISTING CONDITION OF THE SITE PRIOR TO COMMENCING WORK.
- 21. THIS PLAN IS INTENDED TO PROVIDE MINIMUM GUIDELINES FOR THE DEMOLITION OF EXISTING SITE FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL BUILDINGS, PAVEMENT, CONCRETE, CURBING, SIGNS, POLES, UTILITIES, BOLLARDS, FENCES, TREES, VEGETATION, STUMPS AND ANY OTHER EXISTING FEATURES AS NECESSARY TO FULLY CONSTRUCT THE PROJECT.
- 22. REMOVE FRAMES, GRATES AND COVERS FROM ALL SUBSURFACE STRUCTURES TO BE ABANDONED AND REMOVE STRUCTURE TO 3' MIN. BELOW FINISH GRADE. ALL CLOSED-BOTTOM STRUCTURES SHALL BE FRACTURED PRIOR TO BACKFILLING WITH SAND. THE CONTRACTOR HAS THE OPTION TO COMPLETELY REMOVE THESE STRUCTURES AND ASSOCIATED PIPES.
- 23. REMOVE WELL CASING TO 3' BELOW FINISH GRADE AS PART OF DECOMMISSIONING. REFER TO NHDES FACT SHEET DWGB-22-16 FOR ABANDONMENT CRITERIA. RELATED WATER AND ELECTRIC SERVICE LINES MAY BE ABANDONED IN PLACE.
- 24. ALL SEPTIC AND OTHER SANITARY SEWER STRUCTURES SHALL BE PUMPED DRY PRIOR TO DEMOLITION.
- 25. ALL ROAD/LANE CLOSURES OR OTHER TRAFFIC INTERRUPTIONS ON NH 111 OR RIVERWOODS DRIVE SHALL BE COORDINATED WITH NHDOT DISTRICT 6, THE EXETER POLICE DEPARTMENT, DPW AND THE OWNER AT LEAST TWO WEEKS PRIOR TO COMMENCING RELATED CONSTRUCTION.
- 26. THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO ENSURE THAT UTILITY SERVICES AND VEHICULAR ACCESS VIA WHITE OAK DRIVE TO THE RIDGE AND BOULDERS CAMPUSES REMAIN AS UNINTERRUPTED AS POSSIBLE FOR THE DURATION OF THE PROJECT. ANY SHUT DOWN OR CLOSURE SHALL BE COORDINATED WITH THE OWNER AT LEAST ONE WEEK IN ADVANCE.
- 27. SEE DETAIL SHEETS FOR LEGEND.

ALTUS ENGINEERING
133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com
ERIC WEINRIEB No. 7634 U 22 24
NOT FOR CONSTRUCTION
REVIEW
ISSUE DATE: OCTOBER 23, 2024
REVISIONSNO. DESCRIPTIONBY0INITIAL SUBMISSION1REVISED PER COMMENTSEBS10/23/24
DRAWN BY: EBS APPROVED BY: EBS DRAWING FILE: 5015-SITE.dwg
<u>SCALE:</u> 24" x 36" - 1" = 40' 11" x 17" - 1" = NOT TO SCALE
OWNER: RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
APPLICANT: RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
PROJECT: RIVERWOODS SUPPORTIVE LIVING HEATH CENTER
TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
TITLE: DEMOLITION AND SITE PREPARATION PLAN SHEET_NUMBER:

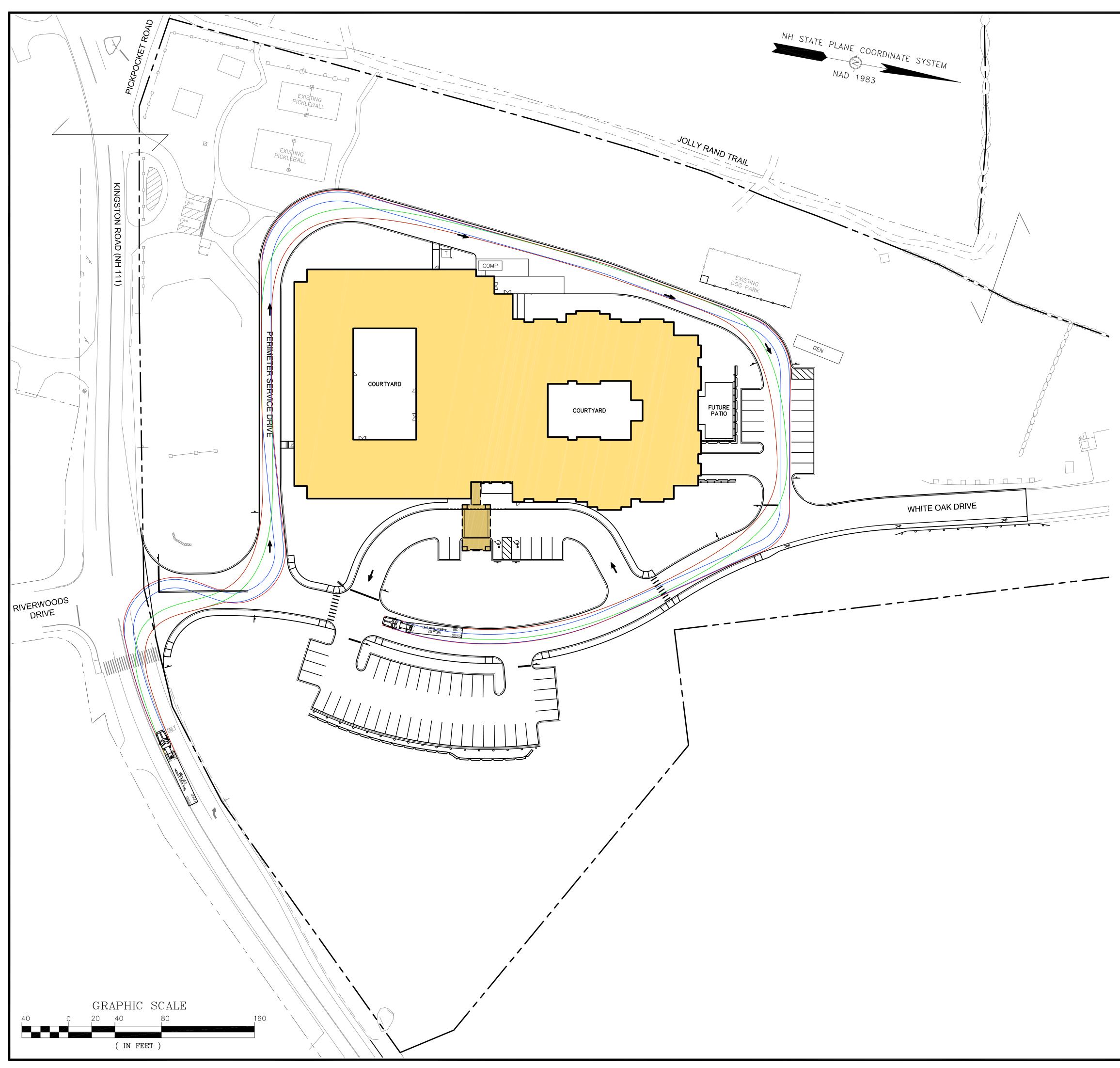


SITE NOTES

DESIGN INTENT - THIS PLAN SET IS INTENDED TO DEPICT THE REDEVELOPMENT OF THE SITE FOR A SUPPORTIVE LIVING HEALTH CARE CENTER. 2. APPROXIMATE LOT AREA: ± 204.48 AC. 3. REFERENCE DEED: ROCKINGHAM COUNTY REGISTRY OF DEED BOOK 6534 PAGE 2917 4. ZONE: RESIDENTIAL LOW DENSITY (R-1) 5. DIMENSIONAL REQUIREMENTS: MIN. LOT AREA: 2 ACRES OR 40,000 S.F. w/WATER AND SEWER DENSITY: 3 UNITS/ACRE (FOR ELDERLY CONGREGATE CARE) MIN. STREET FRONTAGE: 150 FRONT SETBACK: 25' (±130.7' PROVIDED) SIDE SETBACK: 15' (±100.4' PROVIDED) **REAR SETBACK:** 25' (N/A, NO REAR ON THIS SECTION OF THE PARCEL) 35'/3 STORIES (35' PROPOSED) MAX. BUILDING HEIGHT: MIN. OPEN SPACE: 70% (>70% PROVIDED) 100' (FOR ELDERLY CONGREGATE CARE) PERIMETER BUFFER: WETLAND SETBACKS: 40' (POORLY DRAINED) 50' (VERY POORLY DRAINED) 75' (PARKING & STRUCTURES) 100' (VERNAL POOL) PARKING REQUIREMENTS: DUE TO THE PROPOSED USE NOT BEING ADEQUATELY REPRESENTED IN THE OFF-STREET PARKING SCHEDULE, AN ALTERNATE PARKING CALCULATION PER ZONING SECTION 5.6.3.B.1 IS UTILIZED HERE TO CALCULATE PARKING DEMAND. THIS CALCULATION IS BASED ON PROJECTED STAFFING LEVELS AND ANTICIPATED VISITOR DEMAND DERIVED FROM EXPERIENCE WITH THE THREE EXISTING RIVERWOODS EXETER CAMPUSES: STAFF AT MAX. SHIFT: 70 RESIDENT VISITORS: 25 OTHER VISITORS: GOOCH PARK: TOTAL PARKING REQUIRED = 112 SPACES TOTAL PARKING PROVIDED = 130 SPACES (64 GARAGE, 66 SURFACE) SURPLUS/DEFICIT = +18 SPACES 5. OVERALL AREA OF DISTURBANCE OVER 100,000 S.F., NHDES ALTERATION OF TERRAIN PERMIT REQUIRED. AREA OF DISTURBANCE OVER 43,560 SF, COVERAGE UNDER EPA NPDES PHASE II CONSTRUCTION GENERAL PERMIT REQUIRED (NOIS TO BE PREPARED AND SUBMITTED BY CONTRACTOR, SWPPP AND INSPECTIONS TO BE PREPARED AND PERFORMED BY CONTRACTOR). 7. NHDOT DRIVEWAY PERMIT REQUIRED. 8. TOWN OF EXETER SIGN PERMIT REQUIRED. 9. CONDITIONAL USE PERMIT UNDER ZONING SECTION 9.1.6 REQUIRED FOR SITE DEVELOPMENT IN THE WETLANDS CONSERVATION DISTRICT. 10. SITE IS NOT IN A SPECIAL FLOOD HAZARD ZONE PER FIRM PANEL #33015CO401E PANEL 401 OF 681 AS REVISED PER LOMR DATED NOV. 5, 2018. 11. WETLANDS WERE DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. IN JANUARY, 2023 IN ACCORDANCE WITH THE U.S. ARMY CORPS OF ENGINEERS (ACOE) WETLAND DELINEATION MANUAL (1987) AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH-CENTRAL AND NORTHEAST REGION (VERSION 2). HYDRIC SOIL DETERMINATIONS WERE CONDUCTED IN ACCORDANCE WITH THE U.S. DEPT. OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE'S FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES (VERSION 7.0, 2010) ALONG WITH THE MANUAL FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND (VERSION 3, APRIL 2004). PLANT SPECIES INDICATOR STATUS WAS BASED ON THE ACOE'S THE NATIONAL WETLAND PLANT LIST (2013). 12. ALL BONDS AND FEES SHALL BE PAID/POSTED PRIOR TO INITIATING CONSTRUCTION. 13. ALL CONSTRUCTION SHALL CONFORM WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE ONSTRUCTION" AND WITH THE REGULATIONS AND STANDARD SPECIFICATIONS OF THE TOWN OF EXETER, LATEST EDITIONS. THE MORE STRINGENT SPECIFICATION SHALL APPLY. 14. ALL WATER, SEWER, ROAD (INCLUDING PARKING LOT), AND DRAINAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 9.3 STORMWATER STANDARDS. STORMWATER MANAGEMENT PLAN. STORMWATER POLLUTION PREVENTION PLAN. AND EROSION AND SEDIMENT CONTROL STANDARDS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC UTILITIES IN EXETER, NEW HAMPSHIRE. 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION, INSTALLATION AND ORIENTATION OF ALL SIGNS. 16. PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC DEVICES," "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND THE AMERICANS WITH DISABILITIES ACT (ADA), LATEST EDITIONS. 17. PAVEMENT MARKINGS SHALL BE CONSTRUCTED USING WHITE, YELLOW OR BLUE TRAFFIC PAINT (WHERE SPECIFIED) MEETING THE REQUIREMENTS OF AASHTO M248, TYPE F OR EQUAL. PAINTED ISLANDS AND LOADING ZONES SHALL BE 4"-WIDE DIAGONAL WHITE LINES 3'-0" O.C. BORDERED BY 4"-WIDE WHITE LINES. PARKING STALLS SHALL BE SEPARATED BY 4"-WIDE WHITE LINES. SEE DETAILS FOR HANDICAP SYMBOLS, SIGNS AND SIGN DETAILS. 18. PAVEMENT MARKING ABBREVIATIONS: SWL: SINGLE WHITE LINE (4" SOLID LINE) DYL: DOUBLE YELLOW LINE (2 x 4" SOLID LINES SEPARATED BY 4") 19. CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAWCUT LINES WITH RS-1 MMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE. 20. UNLESS OTHERWISE NOTED, ALL NEW CURBING SHALL BE SLOPED GRANITE ("SGC") OR VERTICAL GRANITE ("VGC") WITH A MINIMUM RADIUS OF 4'. 21. CURB RAMPS INDICATED AS "w/PANEL" SHALL BE EQUIPPED WITH AN ADA-COMPLIANT DETECTABLE WARNING PANEL. 22. SNOW SHALL BE STORED AT THE EDGE OF PAVEMENT AND IN AREAS SHOWN HEREON AS APPROPRIATE. NO SNOW SHALL BE STORED IN ANY STORMWATER POND. 23. BUILDING AREA AND DIMENSIONS SHOWN ARE BASED ON MEASUREMENTS TO THE EXTERIOR FACE. ACTUAL DIMENSIONS TO FOUNDATION AND INTERIOR SPACE WILL DIFFER. THE CONTRACTOR SHALL VERIFY ALL BUILDING DIMENSIONS WITH THE ARCHITECTURAL AND STRUCTURAL PLANS PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ALL NECESSARY COORDINATION BETWEEN CIVIL AND ARCHITECTURAL PLANS TO ENSURE THE DESIGN INTENT IS MET. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER FOR RESOLUTION. 24. THIS SITE PLAN IS DESIGNED IN COMPLIANCE WITH ALL APPLICABLE ACCESSIBILITY REGULATIONS. THE PROPOSED BUILDING IS DESIGNED IN COMPLIANCE WITH ALL APPLICABLE ACCESSIBILITY REGULATIONS INCLUDING NH RSA 155-A:5-a&b, THE IBC AND ANSI 117.1. 25. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL PREPARE AN AS-BUILT SITE AND UTILITY PLAN STAMPED BY A NH LICENSED LAND SURVEYOR (LLS) & PROVIDE DIGITAL COPIES IN PDF AND CAD FORMAT TO THE ENGINEER. 26. SEE DETAIL SHEETS FOR LEGEND.

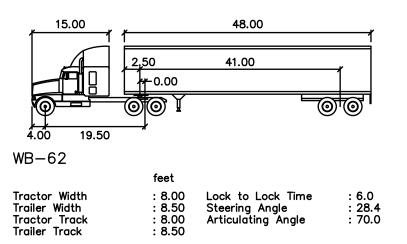
ALIUS
ENGINEERING
133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com
ERIC D. WEINRIEB No. 7634 CCENSED D. WEINRIEB No. 7634 CCENSED D. D. D. D. D. D. D. D. D. D. D. D. D.
NOT FOR CONSTRUCTION
REVIEW
OCTOBER 23, 2024
REVISIONS NO. DESCRIPTIONBYDATE0INITIAL SUBMISSIONEBS09/10/241REVISED PER COMMENTSEBS10/23/24
DRAWN BY:EBS
APPROVED BY: EBS DRAWING FILE: 5015-SITE.dwg
<u>SCALE:</u> 24" x 36" - 1" = 40' 11" x 17" - 1" = NOT TO SCALE
OWNER: RIVERWOODS COMPANY
AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833
APPLICANT: RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
PROJECT: RIVERWOODS SUPPORTIVE LIVING HEATH CENTER
TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
TITLE:
SITE PLAN SHEET NUMBER:

C-2



TURNING MOVEMENT NOTES

- 1. THE GRAPHIC VEHICLE PROFILE SHOULD NOT BE CONSIDERED A COMPLETELY ACCURATE VISUAL DEPICTION OF THE DESIGN VEHICLE AND IS ONLY INTENDED TO CONVEY A GENERIC REPRESENTATION OF IT'S GENERAL APPEARANCE.
- THIS PLAN IS INTENDED TO DEMONSTRATE THAT THE PROJECT AS DESIGNED SHOULD BE ABLE TO ADEQUATELY ACCOMMODATE ANY VEHICLE UP TO AND INCLUDING THIS DESIGN VEHICLE.
- 3. DESIGN VEHICLE PROFILE:

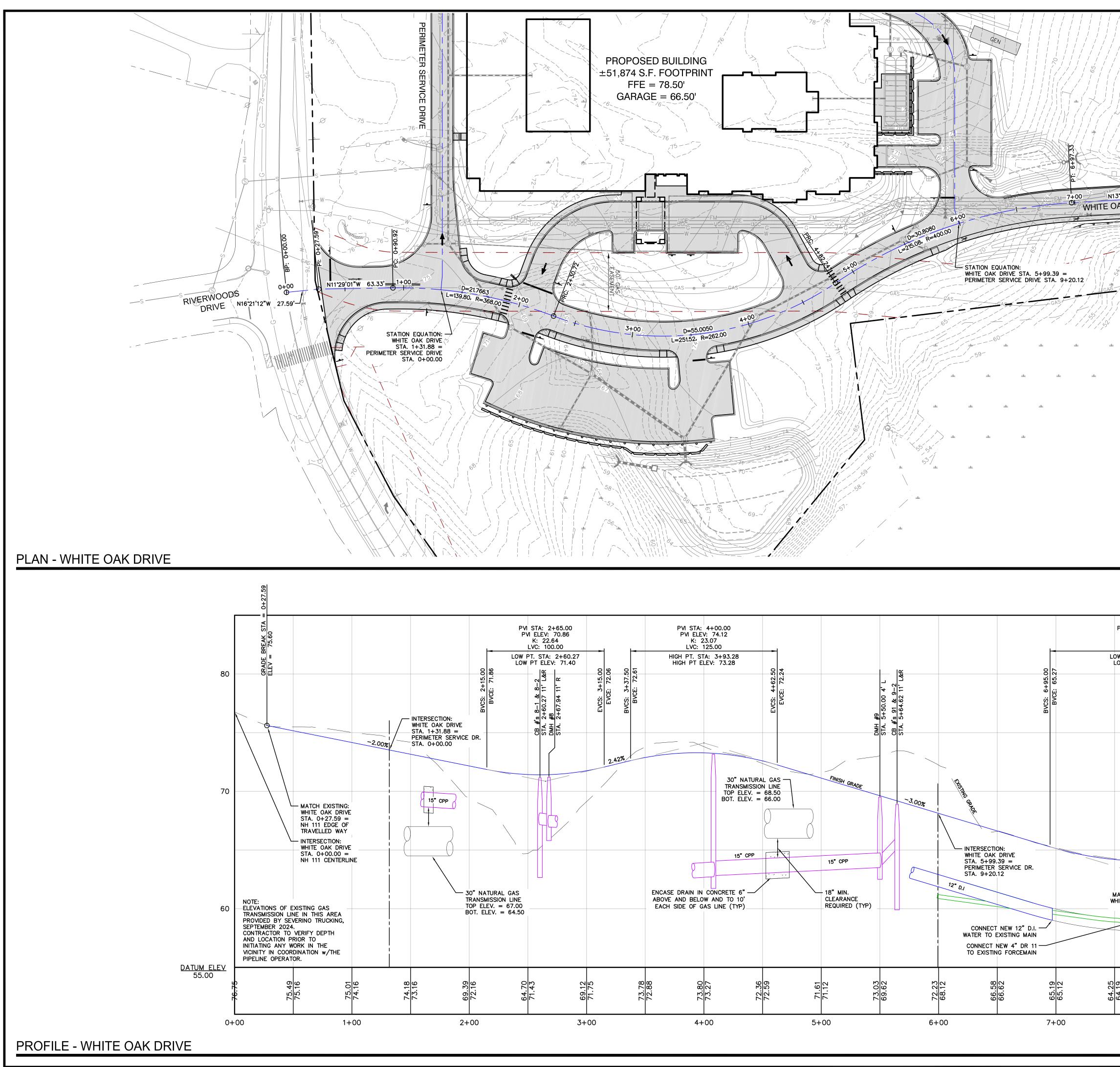


LEGEND

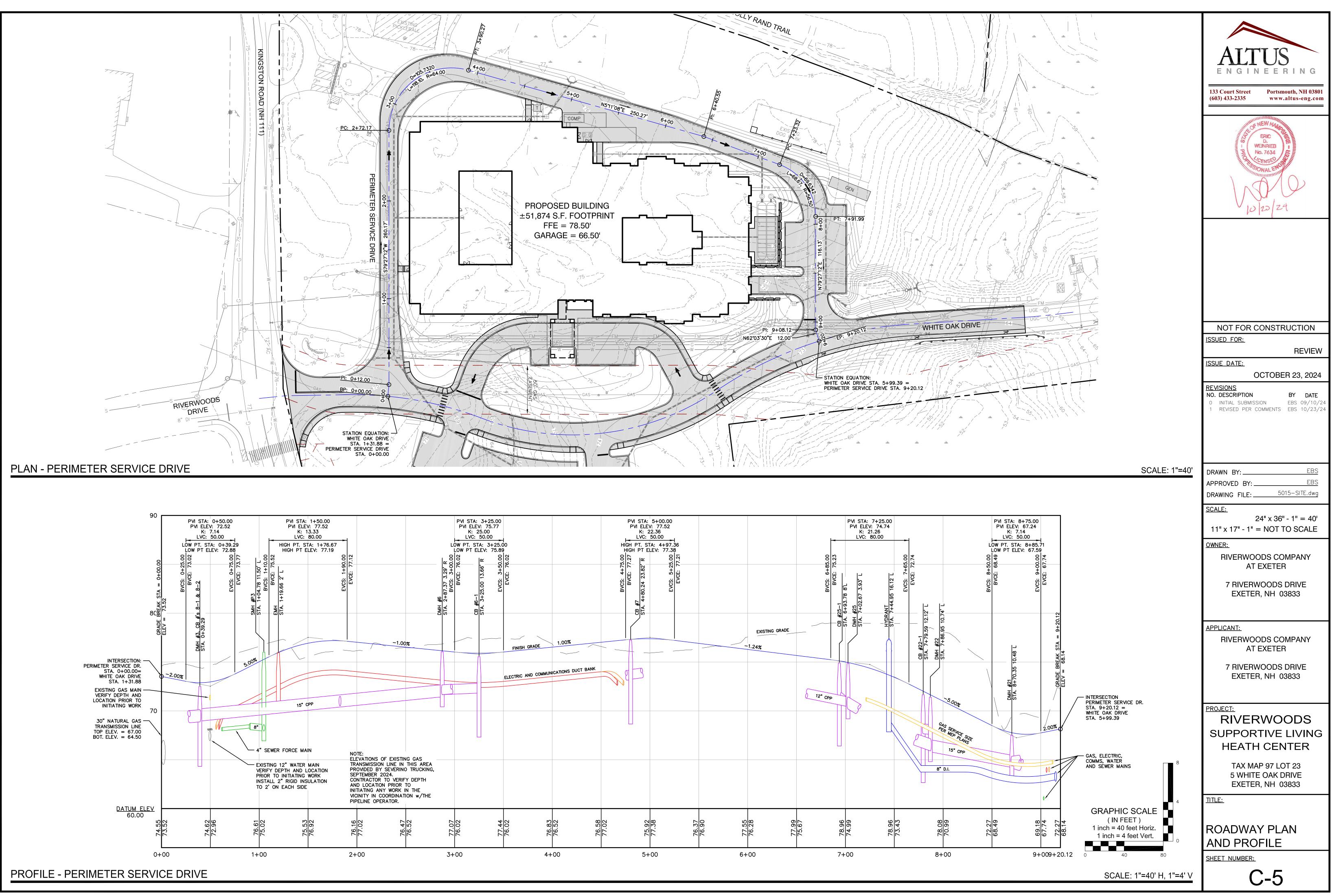
FRONT TRACK

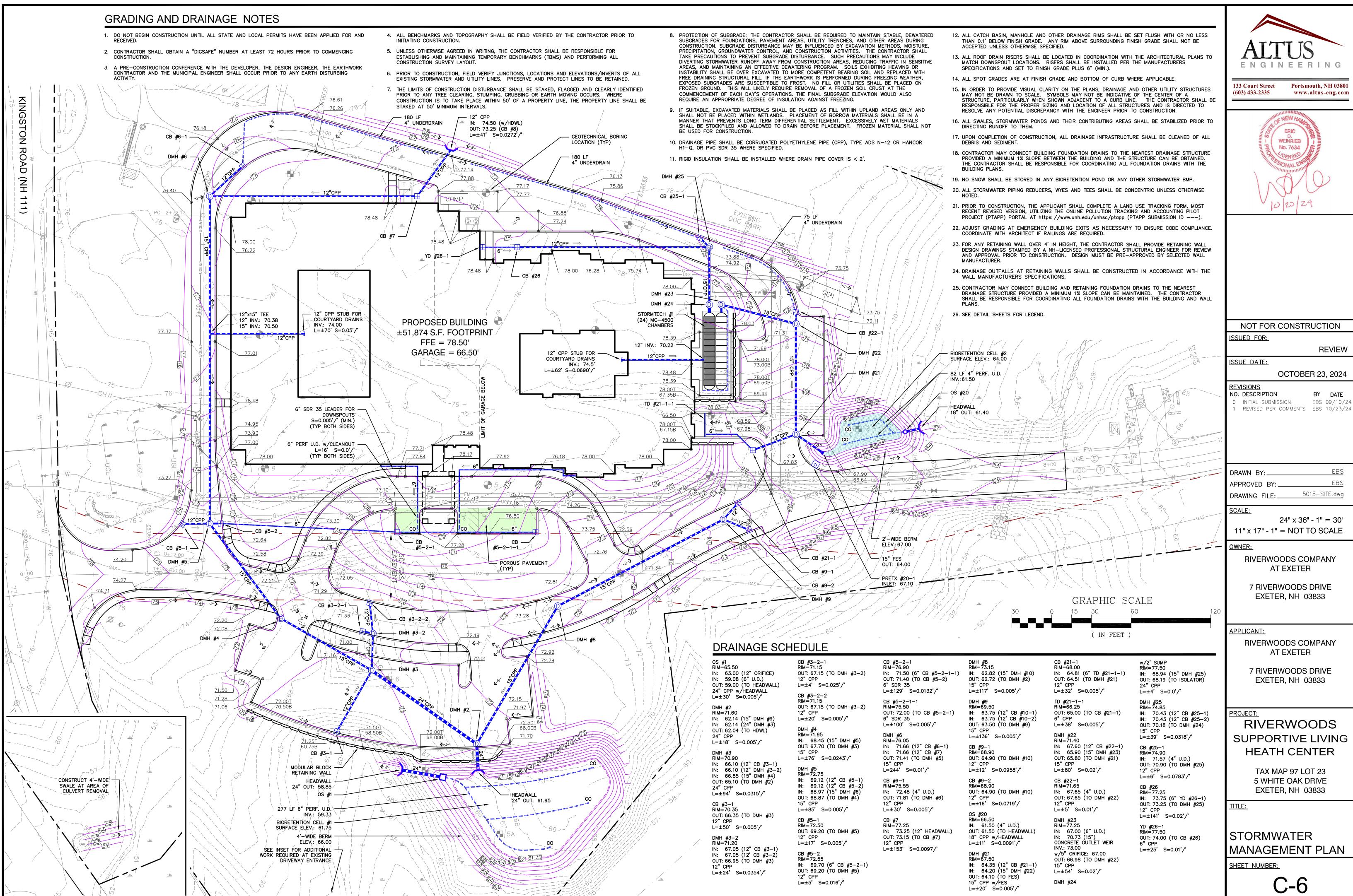
VEHICLE BODY/OVERHANG

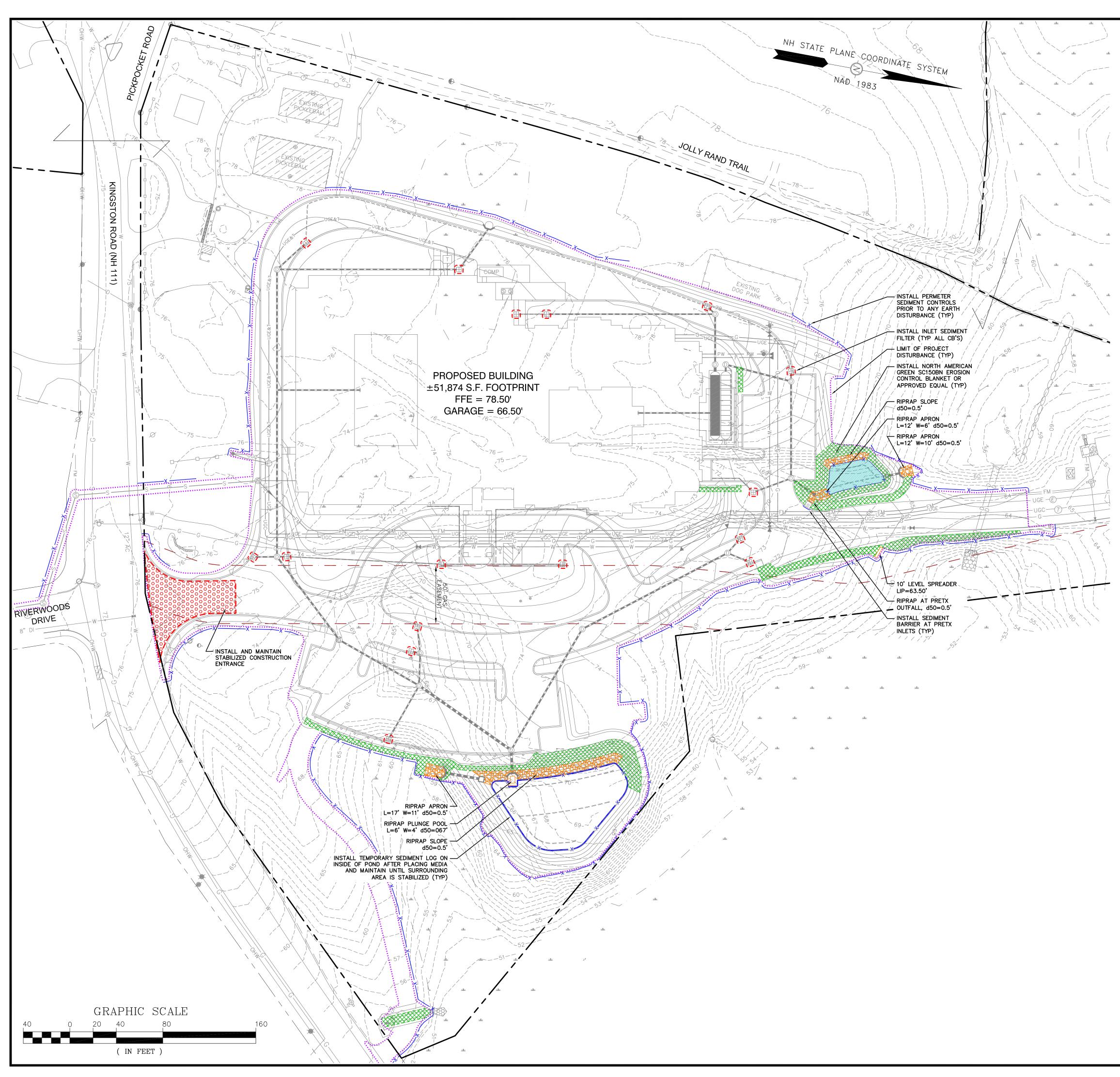
ATTIS		
ENGINEERING		
133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com		
ERIC D. WEINRIEB No. 7634 CENSED No. 7634 UD 20 24		
NOT FOR CONSTRUCTION ISSUED FOR:		
REVIEW		
OCTOBER 23, 2024		
REVISIONSNO. DESCRIPTIONBY0INITIAL SUBMISSION1REVISED PER COMMENTS210/23/24		
DRAWN BY:EBS		
APPROVED BY: EBS DRAWING FILE: 5015-SITE.dwg		
SCALE:		
24" x 36" - 1" = 40' 11" x 17" - 1" = NOT TO SCALE		
OWNER: RIVERWOODS COMPANY AT EXETER		
7 RIVERWOODS DRIVE EXETER, NH 03833		
APPLICANT: RIVERWOODS COMPANY AT EXETER		
7 RIVERWOODS DRIVE EXETER, NH 03833		
RIVERWOODS SUPPORTIVE LIVING HEATH CENTER		
TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833		
<u>TITLE:</u>		
TITLE: VEHICULAR ACCESS PLAN SHEET NUMBER:		



PM ELEV 62.97 LVE 100.00 WP FSL 72500 WP F ELEV 64.97 T K 17 - T = NOT TO SCALE WWERE: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 TILE: 4 4 4 4 4 4 4 4 4 4 4 4 4		
SCALE: 1"=40" SCALE: 1"=40" SCALE: 1"=40" DRAWN BY:ESS APPROVED BY:ESS PRAVISE FLE:SUBJECTS SCALE: 1"=40" DRAWN BY:ESS PRAVISE BY:ESS PRAVISE FLE:SUBJECTS SCALE: 1"=40" DRAWN BY:ESS PRAVISE BY:ESS DRAWNE BY:ESS PRAVISE BY:ESS DRAWNE BY:ESS PRAVISE BY:ESS DRAWNE DRAWNE BY:	S S S S S S S S S S S S S S	Image: A constraint of the second systemPortsmouth, NH 03801 www.altus-eng.com
APPROVED BY:EBS DRAWING FILE:5015_SITE_dwg SCALE: 24" x 36"-1" = 40' 11" x 17"-1" = NOT TO SCALE 0WNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 DILE: 0 WHITE OAK DRIVE EXETER, NH 03833 DILE:		ISSUED FOR: REVIEW ISSUE DATE: OCTOBER 23, 2024 REVISIONS NO. DESCRIPTION O INITIAL SUBMISSION EBS 09/10/24
APPLICANT: RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS SUPPORTIVE LIVING HEATH CENTER TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833 IITLE:	PVI STA: 7+75.00 PVI ELEV: 62.87 K: 26.67 LVC: 160.00 W PT. STA: 7+75.00 OW PT ELEV: 64.07	APPROVED BY:
ATCH EXISTING HATCH EXISTING STA. 8+11.68 EXISTING CULVERTS GRAPHIC SCALE GRAPHIC SCALE	= EVCS: 84	7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE
01 10 <td< th=""><th>ATCH EXISTING: ITE OAK DRIVE STA. 8+11.68 EXISTING CULVERTS GRAPHIC SCALE (IN FEET) 1 inch = 40 feet Horiz.</th><th>RIVERWOODS SUPPORTIVE LIVING HEATH CENTER TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833 IIILE: ROADWAY PLAN</th></td<>	ATCH EXISTING: ITE OAK DRIVE STA. 8+11.68 EXISTING CULVERTS GRAPHIC SCALE (IN FEET) 1 inch = 40 feet Horiz.	RIVERWOODS SUPPORTIVE LIVING HEATH CENTER TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833 IIILE: ROADWAY PLAN
8+00 8+61.68 0 40 80 <u>SHEET NUMBER:</u> SCALE: 1"=40' H, 1"=4' V C-4		SHEET NUMBER:



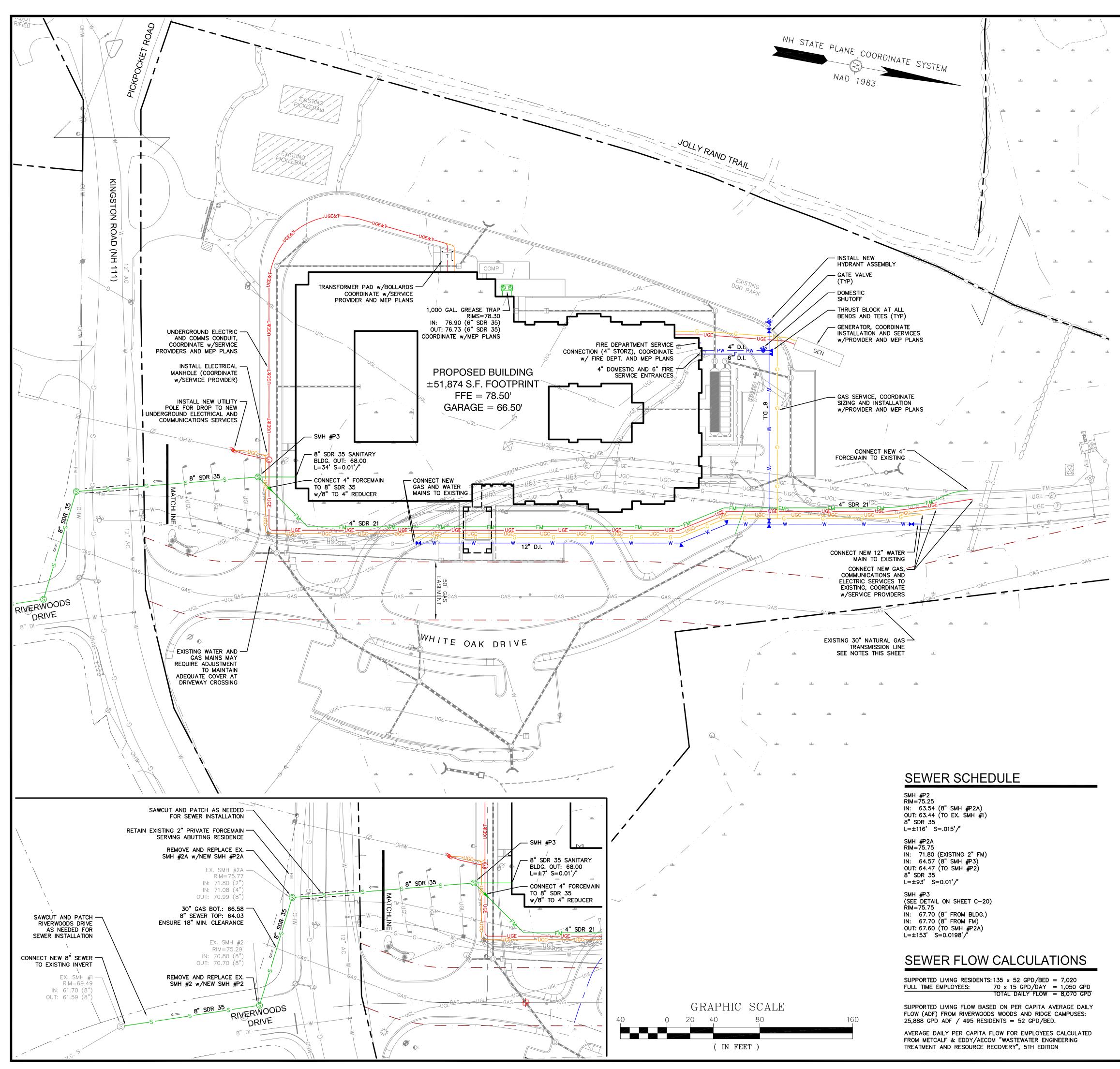




EROSION AND SEDIMENT CONTROL NOTES

- 1. AREA OF DISTURBANCE = $\pm 227,500$ S.F. NHDES ALTERATION OF TERRAIN PERMIT REQUIRED.
- 2. PROPOSED IMPERVIOUS AREA WITHIN PROJECT LIMITS: 135,562 S.F. (80,891 S.F. INCREASE OVER EXISTING CONDITIONS).
- 3. PERIMETER SEDIMENT CONTROLS AND CULVERT AND CATCH BASIN INLET PROTECTION MEASURES SHALL BE INSTALLED AFTER TREE CLEARING OPERATIONS HAVE CEASED AND BEFORE ANY STUMPING, GRUBBING OR OTHER EARTH DISTURBANCE.
- 4. GRIND STUMPS AND REUSE GRINDINGS FOR EROSION CONTROL WHERE POSSIBLE OR TRUCK OFFSITE FOR PROPER DISPOSAL IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. NO STUMPS SHALL BE BURIED ON SITE OR LEFT AT ANY DEPTH BELOW ROADWAY OR PARKING LOT SURFACES.
- 5. NO EARTHWORK SHALL COMMENCE UNTIL ALL APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED IN GOOD WORKING ORDER FOR THE DURATION OF CONSTRUCTION AND THE SITE IS STABILIZED.
- 6. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN STANDARDS AND SPECIFICATIONS SET FORTH BY THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES.
- 7. THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO PREVENT EROSION, PREVENT SEDIMENT FROM LEAVING THE SITE AND/OR ENTERING WETLANDS AND ENSURE PERMANENT SOIL STABILIZATION.
- 8. TEMPORARY INLET PROTECTION MEASURES SHALL BE INSTALLED AT ALL CULVERT ENTRANCES AND IN ALL CATCH BASINS WITHIN 100' OF THE PROJECT SITE WHEN SITE WORK WITHIN CONTRIBUTING AREAS IS ACTIVE OR SAID AREAS HAVE NOT BEEN STABILIZED.
- 9. ALL EROSION CONTROL BLANKETS AND FASTENERS SHALL BE BIDEGRADEABLE.
- 10. ALL EROSION CONTROL BLANKETS SHALL BE BY NORTH AMERICAN GREEN OR EQUAL AS APPROVED IN WRITING BY THE ENGINEER.
- 11. ALL SWALES, STORMWATER PONDS AND THEIR CONTRIBUTING AREAS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- 12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS.
- 13. FUGITIVE DUST SHALL BE CONTROLLED DURING CONSTRUCTION IN ACCORDANCE WITH ENV-A 1000. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DUST FROM LEAVING THE SITE. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE PROACTIVE MANAGEMENT OF STOCKPILES, MATERIALS PROCESSING ACTIVITIES, VEHICULAR TRAFFIC, THE EXCAVATION AND PLACEMENT OF EARTH MATERIALS, SPRAYING WATER, SWEEPING PAVED SURFACES, PROVIDING TEMPORARY VEGETATION, AND/OR MULCHING EXPOSED AREAS AND STOCKPILES.
- 14. ALL ACTIVITIES SHALL BE MANAGED IN STRICT ACCORDANCE WITH NH RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES. NO INVASIVE SPECIES SHALL BE INSTALLED ON THE PROJECT SITE FOR ANY REASON.
- 15. TEMPORARY SEDIMENT LOG (SILTSOXX OR EQUAL APPROVED BY THE ENGINEER) SHALL BE INSTALLED AROUND THE INLETS OFF ALL CULVERTS AND THE BOTTOM PERIMETERS OF ALL STORMWATER PONDS. THESE MEASURES ARE TO REMAIN IN PLACE UNTIL ALL CONTRIBUTING AREAS HAVE BEEN STABILIZED.
- 16. MATERIAL STOCKPILE LOCATIONS SHOWN ARE CONCEPTUAL. THE CONTRACTOR MAY LOCATE STOCKPILES WHERE NECESSARY PROVIDED THAT TEMPORARY SEDIMENT LOGS OR OTHER ACCEPTABLE PERIMETER SEDIMENT CONTROLS ARE INSTALLED AT THEIR DOWNSLOPE PERIMETERS.
- 17. NO MATERIAL STOCKPILE SHALL BE LOCATED WITHIN 50' OF THE PROPERTY LINE.
- 18. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE SIX (6") INCHES OF LOAM, LIMESTONE, FERTILIZER, SEED, AND HAY MULCH OR EROSION CONTROL BLANKET USING APPROPRIATE SOIL STABILIZATION TECHNIQUES. SEE DETAILS FOR ADDITIONAL INFORMATION.
- UPON COMPLETION OF CONSTRUCTION, ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED AND ANY AREAS DISTURBED BY THE REMOVAL SMOOTHED AND REVEGETATED.
 SEE DETAIL SHEETS FOR ADDITIONAL SEDIMENT AND EROSION CONTROL NOTES AND DETAILS.
- 21. SEE DETAIL SHEETS FOR LEGEND.

ALTUS
ENGINEERING 133 Court Street Portsmouth, NH 03801
(603) 433-2335 www.altus-eng.com
ERIC D. WEINRIEB No. 7634 CENSED NO. 7634 CONAL ENGLINE
NOT FOR CONSTRUCTION
ISSUED FOR:
ISSUE_DATE: OCTOBER 23, 2024
REVISIONS NO. DESCRIPTIONBYDATE0INITIAL SUBMISSIONEBS09/10/241REVISED PER COMMENTSEBS10/23/24
DRAWN BY:EBS
APPROVED BY: EBS DRAWING FILE: 5015-SITE.dwg
SCALE:
24" x 36" - 1" = 40' 11" x 17" - 1" = NOT TO SCALE
OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833
APPLICANT:
RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
PROJECT: RIVERWOODS SUPPORTIVE LIVING HEATH CENTER TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
TITLE: EROSION AND SEDIMENT CONTROL PLAN
SHEET NUMBER:
C-7



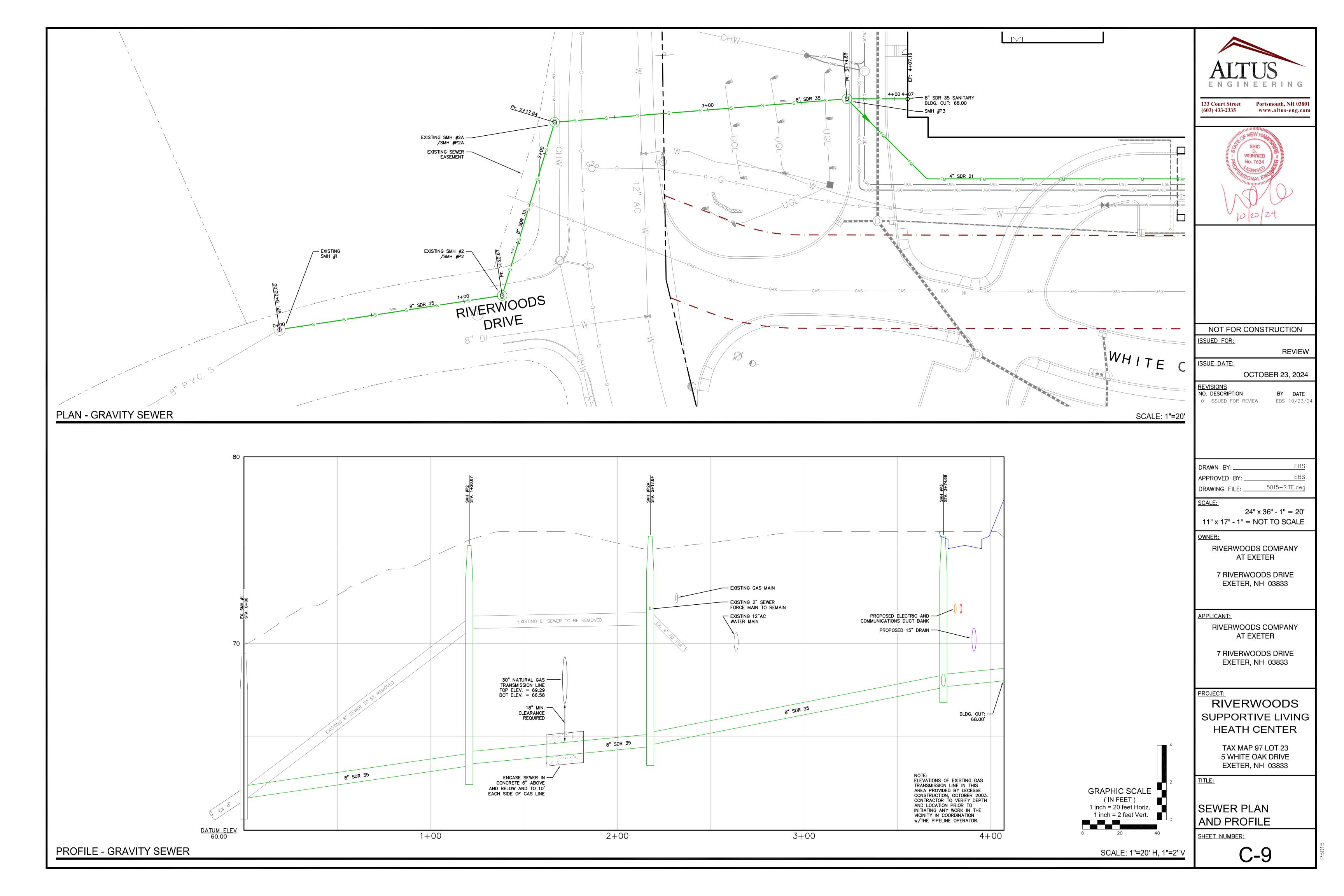
UTILITY NOTES

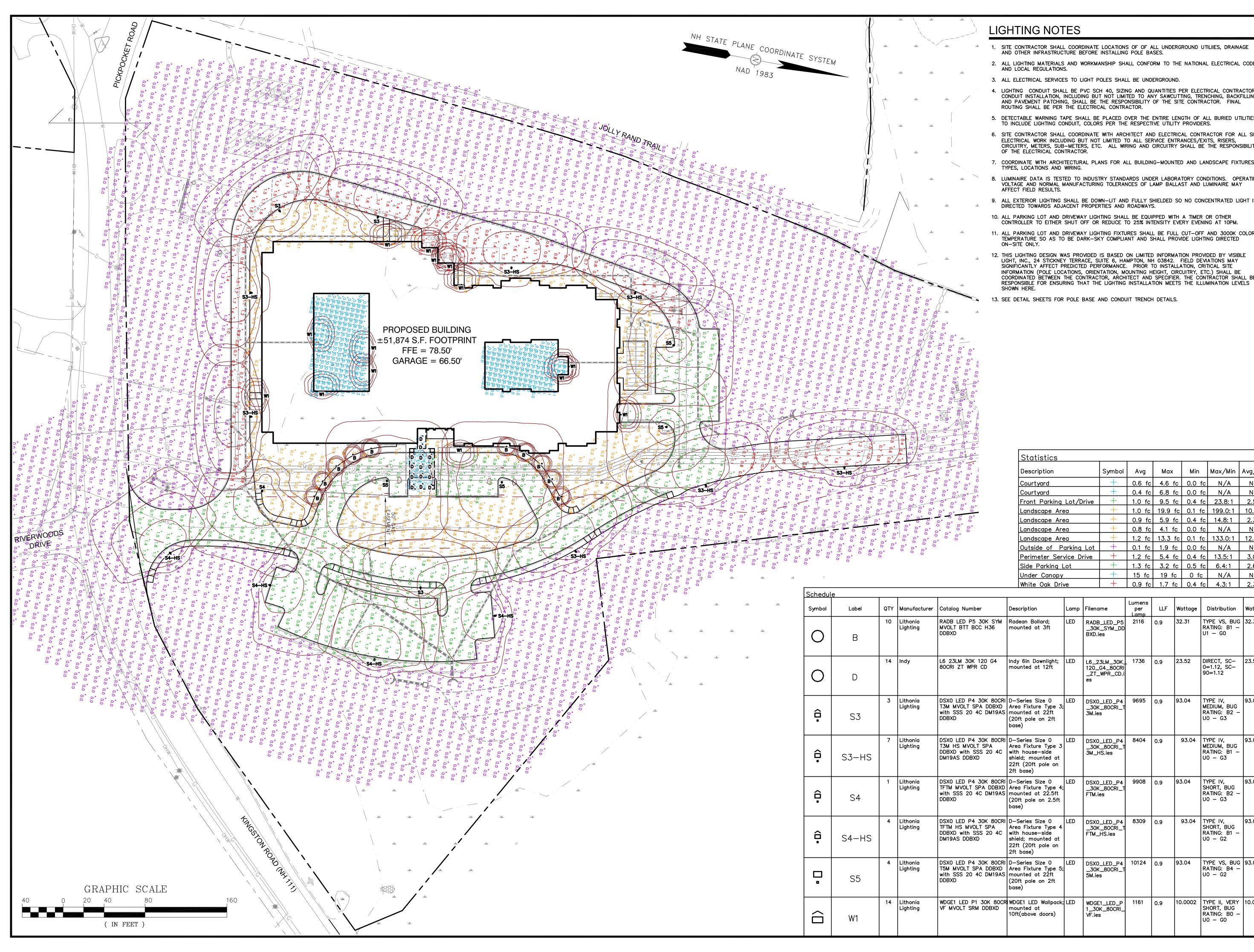
- I. THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES (IE. CATCH BASINS, MANHOLES, WATER GATES, ETC.) AND INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY PROVIDERS AND GOVERNMENTAL AGENCIES. AS SUCH, THEY ARE NOT INCLUSIVE AS OTHER UTILITIES AND UNDERGROUND STRUCTURES THAT ARE NOT SHOWN ON THE PLANS MAY EXIST. THE ENGINEER, SURVEYOR AND OWNER ACCEPT NO RESPONSIBILITY FOR POTENTIAL INACCURACIES IN THE PLAN AND/OR UNFORESEEN CONDITIONS. THE CONTRACTOR SHALL NOTIFY, IN WRITING, SAID AGENCIES, UTILITY PROVIDERS, LOCAL DPW AND OWNER'S AUTHORIZED REPRESENTATIVE AND CALL DIG SAFE AT 1 (800) DIG-SAFE AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION WORK.
- 2. PRIOR TO CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND FIELD VERIFY JUNCTIONS, LOCATIONS AND ELEVATIONS/INVERTS OF ALL EXISTING AND PROPOSED STORMWATER AND UTILITY LINES. CONFLICTS SHALL BE ANTICIPATED AND ALL EXISTING LINES TO BE RETAINED SHALL BE PROTECTED. ANY DAMAGE DONE TO EXISTING UTILITIES SHALL BE REPAIRED AND, IF NECESSARY, EXISTING UTILITIES SHALL BE RELOCATED AT NO EXTRA COST TO THE OWNER. ALL CONFLICTS SHALL BE RESOLVED WITH THE INVOLVEMENT OF THE ENGINEER, LOCAL DPW AND APPROPRIATE UTILITIES.
- 3. THE SITE IS SERVED BY MUNICIPAL WATER AND SEWER.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE POSTING OF ALL BONDS AND PAYMENT OF ALL TAP, TIE-IN AND CONNECTION FEES.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL UTILITY CONNECTION/DISCONNECTION AND TRENCHING PERMITS. THIS INCLUDES BUT IS NOT LIMITED TO A DOT EXCAVATION PERMIT FOR ALL WORK IN THE NH ROUTE 111 RIGHT OF WAY.
- 6. ALL UTILITY RELOCATIONS SHALL BE DONE IN A MANNER SO AS TO MINIMIZE DISRUPTION OF SERVICE. ALL INTERRUPTIONS SHALL BE COORDINATED WITH THE SERVICE PROVIDERS AND OWNER AT LEAST 72 HOURS PRIOR TO PERFORMING THE WORK.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BEDDING, BACKFILL & COMPACTION FOR ALL UTILITY TRENCHING IN ADDITION TO ALL CONDUIT INSTALLATION AND COORDINATION OF ALL REQUIRED INSPECTIONS.
- 8. ALL TRENCHING, PIPE LAYING AND BACKFILLING SHALL CONFORM TO FEDERAL OSHA AND LOCAL REGULATIONS.
- 9. SEE ARCHITECTURAL/MECHANICAL DRAWINGS FOR EXACT LOCATIONS & ELEVATIONS OF UTILITY CONNECTIONS AT BUILDING. COORDINATE ALL WORK WITHIN FIVE (5) FEET OF BUILDINGS WITH BUILDING CONTRACTOR AND ARCHITECTURAL/MECHANICAL DRAWINGS. ALL CONFLICTS AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY AND PRIOR TO COMMENCING RELATED WORK.
- 10. THE INSTALLATION OF ELECTRIC POWER AND COMMUNICATIONS LINES SHALL BE UNDERGROUND THROUGHOUT THE SITE.
- 11. THE CONTRACTOR SHALL INSTALL APPROVED BACKFLOW PREVENTORS FOR BOTH FIRE AND DOMESTIC WATER LINES.
- 12. FINAL UTILITY LOCATIONS TO BE COORDINATED BETWEEN THE ARCHITECT, CONTRACTOR, APPROPRIATE UTILITY COMPANIES AND THE LOCAL DPW.
- 13. DETECTABLE WARNING TAPE SHALL BE PLACED OVER THE ENTIRE LENGTH OF ALL BURIED UTILITIES, COLORS PER THE RESPECTIVE UTILITY PROVIDERS.
- 14. UTILITY PROVIDERS AND CONTACTS:
- MARITIMES AND NORTHEAST PIPELINE: RICHMOND, MAINE AREA SUPER., (207) 737-8249.
 WATER & SEWER: EXETER PUBLIC WORKS, PAUL VLASICH, TOWN ENGINEER, (603) 773-6157.
 GAS: UNITIL, DAVID MACLEAN, (603) 294-5144.
- TELECOMMUNICATIONS: CONSOLIDATED, JOE CONSIDINE, (603) 427-5525.
 CABLE: COMCAST, MIKE COLLINS, (603) 679-5695, EXT. 1037.
- ELECTRICAL: EVERSOURCE, MARK BOUCHER, (603) 634–3029. ALL ELECTRIC CONDUIT INSTALLATION SHALL BE INSPECTED BY EVERSOURCE PRIOR TO BACKFILL, 48–HOUR MINIMUM NOTICE REQUIRED.
- 15. CONTRACTOR TO PROVIDE BOLLARDS OR OTHER PROTECTIVE MEASURES AT UTILITY SERVICE ENTRANCES PER THE SPECIFICATIONS OF THE RESPECTIVE UTILITY PROVIDERS.

16. ALL WATER MAIN AND SERVICE INSTALLATIONS SHALL BE CONSTRUCTED AND TESTED PER EXETER DPW STANDARDS AND SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE TO THE STANDARDS AND SPECIFICATIONS OF THE RESPECTIVE UTILITY PROVIDERS.

- 17. WHERE WATER LINES CROSS, RUN ADJACENT TO OR ARE WITHIN 5' OF STORM DRAINAGE PIPES OR STRUCTURES, 2"-THICK CLOSED CELL RIGID BOARD INSULATION SHALL BE INSTALLED FOR FROST PROTECTION.
- 18. WATER AND SANITARY SEWER LINES SHALL BE LOCATED AT LEAST 10' HORIZONTALLY FROM EACH OTHER. WHERE CROSSING, 18" MINIMUM VERTICAL CLEARANCE SHALL BE PROVIDED WITH WATER INSTALLED OVER SEWER.
- 19. THE CONTRACTOR SHALL CONFIRM ALL UTILITY LINE AND CONDUIT SIZES WITH THE MEP PLANS AND SERVICE PROVIDERS PRIOR TO INSTALLATION. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 20. FIRE ALARM PANELS SHALL BE MONITORED THROUGH A THIRD-PARTY SECURITY COMPANY. CONTRACTOR SHALL COORDINATE PANEL LOCATIONS AND INTERCONNECTIONS WITH LOCAL FIRE DEPARTMENT AND ARCHITECT.
- 21. FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED ON THE BUILDING AS SHOWN. COORDINATE WITH MEP PLANS AND THE LOCAL FIRE DEPARTMENT. ACCESS TO THE FDC SHALL BE MAINTAINED AS A CLEAR AND UNOBSTRUCTED PATH AT ALL TIMES.
- 22. THE PROPOSED STRUCTURE SHALL BE SERVED BY A SPRINKLER SYSTEM AS REQUIRED UNDER LOCAL AND STATE BUILDING CODES.23. SPRINKLER CONNECTIONS MUST BE FLUSHED IN ACCORDANCE WITH NFPA 24 AND A CONTRACTOR'S
- MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM MUST BE COMPLETED. 24. UNLESS OTHERWISE DETERMINED BY THE UTILITY PROVIDER, ALL ELECTRICAL TRANSFORMERS AND
- SWITCHES SHALL REMAIN THE PROPERTY OF THE UTILITY. 25. THE TOWN OF EXETER SHALL HAVE A BLANKET EASEMENT TO ACCESS ALL EXTERIOR VALVES AND SHUTOFFS CONNECTED TO THE MUNICIPAL WATER SYSTEM.
- 26. ALL WATER VALVES AND HYDRANTS SHALL BE OPEN LEFT.
- 27. ALL UTILITY FOUNDATION PENETRATIONS SHALL BE SLEEVED. COORDINATE w/MEP AND ARCHITECTURAL PLANS.
- 28. IRRIGATION PIPING AND WATER SUPPLY WELL TO BE DESIGN-BUILD BY CONTRACTOR. INSTALL PIPE SLEEVES UNDER ROADWAY AS REQUIRED FOR IRRIGATION PIPE AND CONTROL WIRING.
 29. COORDINATE WITH MEP PLANS FOR SITE IRRIGATION CONNECTION(S) AT BUILDING.
- 30. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL HANDHOLES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS IN ORDER TO RENDER THE FULL INSTALLATION OF COMPLETE AND OPERATIONAL UTILITY AND DRAINAGE SYSTEMS.
- 31. THE CONTRACTOR MUST HAVE AN EMPLOYEE WITH A VALID EXETER UTILITY INSTALLER LICENSE ON SITE DURING ALL UTILITY WORK WITHIN THE NH 111 RIGHT OF WAY.32. SEE DETAIL SHEETS FOR LEGEND.
- HIGH PRESSURE GAS MAIN NOTES:
- NO ACTIVITY WHATSOEVER MAY BE PERFORMED ON JOINT FACILITIES RIGHT-OF-WAY, OR NEAR JOINT FACILITIES, WITHOUT A MARITIMES & NORTHEAST OPERATING COMPANY ("COMPANY") INSPECTOR ON THE SITE. MARITIMES & NORTHEAST INSPECTORS MAY BE ARRANGED FOR BY CONTACTING THE RICHMOND (MAINE) AREA SUPERINTENDENT, 207-737-8249, AT LEAST 72 HOURS IN ADVANCE OF THE WORK.
- 2. THE COMPANY SHALL BE GIVEN AT LEAST THREE WORKING DAYS ADVANCED NOTICE PRIOR TO THE ACTUAL COMMENCEMENT OF ANY WORK OR EXCAVATION ON OR NEAR THE PIPELINE RIGHT-OF-WAY SO THAT THE COMPANY MAY LOCATE ITS FACILITIES AND HAVE A FIELD REPRESENTATIVE PRESENT DURING EXCAVATION OR CONSTRUCTION ACTIVITIES.
- 3. WHEN A CONTRACTOR EXCAVATES NEAR COMPANY PIPELINES, THE COMPANY REPRESENTATIVE MUST BE ON SITE AT ALL TIMES TO LOCATE THE PIPELINE(S), TO DETERMINE THE DEPTH OF COVER BEFORE AND DURING THE EXCAVATION, AND TO WITNESS THE EXCAVATION AND BACKFILLING OPERATIONS. THE CONTRACTOR SHALL NOT PERFORM ANY EXCAVATION, CROSSING, BACK FILLING, OR CONSTRUCTION OPERATIONS UNLESS THE COMPANY REPRESENTATIVE IS ON SITE. THE COMPANY REPRESENTATIVE SHALL HAVE FULL AUTHORITY TO STOP THE WORK IF IT IS DETERMINED THAT THE WORK IS BEING PERFORMED IN AN UNSAFE MANNER.
- 4. ANY VEHICULAR/EQUIPMENT CROSSING MARITIMES & NORTHEAST PIPELINE/PORTLAND NATURAL GAS TRANSMISSION SYSTEM SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE AREA SUPERINTENDENT. TEMPORARY PROTECTION OF THE FACILITY MAY BE REQUIRED.
- 5. HORIZONTAL LOCATION OF MARITIMES & NORTHEAST PIPELINE/PORTLAND NATURAL GAS TRANSMISSION SYSTEM DETERMINED BY GROUND FIELD SURVEY LOCATION PERFORMED BY JAMES VERRA AND ASSOCIATES, INC.
- THE VERTICAL LOCATION OF THE MARITIMES & NORTHEAST PIPELINE AT VEHICULAR/UTILITY CROSSING(S) HAS BEEN DETERMINED BY TEST PITS DONE UNDER THE DIRECT SUPERVISION OF A MARITIMES & NORTHEAST OPERATING COMPANY INSPECTOR.

ALI US
ENGINEERING
133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com
ERIC UNITED ERIC WEINRIEB No. 7634 CENSED SIONAL ENGINIE
NOT FOR CONSTRUCTION
ISSUED FOR:
REVIEW
ISSUE DATE: OCTOBER 23, 2024
REVISIONS NO. DESCRIPTIONBYDATE0INITIAL SUBMISSIONEBS09/10/241REVISED PER COMMENTSEBS10/23/24
DRAWN BY:EBS
APPROVED BY:EBS
DRAWING FILE: 5015-SITE.dwg
<u>SCALE:</u> 24" x 36" - 1" = 40' 11" x 17" - 1" = NOT TO SCALE
OWNER:
RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
APPLICANT:
RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
PROJECT: RIVERWOODS SUPPORTIVE LIVING HEATH CENTER
TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
<u>TITLE:</u>
UTILITY PLAN
SHEET NUMBER:





LIGHTING NOTES

- 1. SITE CONTRACTOR SHALL COORDINATE LOCATIONS OF OF ALL UNDERGROUND UTILIIES, DRAINAGE AND OTHER INFRASTRUCTURE BEFORE INSTALLING POLE BASES.
- 2. ALL LIGHTING MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND LOCAL REGULATIONS.
- 3. ALL ELECTRICAL SERVICES TO LIGHT POLES SHALL BE UNDERGROUND.
- 4. LIGHTING CONDUIT SHALL BE PVC SCH 40, SIZING AND QUANTITIES PER ELECTRICAL CONTRACTOR. CONDUIT INSTALLATION, INCLUDING BUT NOT LIMITED TO ANY SAWCUTTING, TRENCHING, BACKFILLING AND PAVEMENT PATCHING, SHALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR. FINAL ROUTING SHALL BE PER THE ELECTRICAL CONTRACTOR.
- 5. DETECTABLE WARNING TAPE SHALL BE PLACED OVER THE ENTIRE LENGTH OF ALL BURIED UTILITIES TO INCLUDE LIGHTING CONDUIT, COLORS PER THE RESPECTIVE UTILITY PROVIDERS.
- 6. SITE CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND ELECTRICAL CONTRACTOR FOR ALL SIT ELECTRICAL WORK INCLUDING BUT NOT LIMITED TO ALL SERVICE ENTRANCES/EXITS, RISERS, CIRCUITRY, METERS, SUB-METERS, ETC. ALL WIRING AND CIRCUITRY SHALL BE THE RESPONSIBILIT OF THE ELECTRICAL CONTRACTOR.
- 7. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL BUILDING-MOUNTED AND LANDSCAPE FIXTURES, TYPES, LOCATIONS AND WIRING.
- 8. LUMINAIRE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLERANCES OF LAMP BALLAST AND LUMINAIRE MAY AFFECT FIELD RESULTS.
- 9. ALL EXTERIOR LIGHTING SHALL BE DOWN-LIT AND FULLY SHIELDED SO NO CONCENTRATED LIGHT IS DIRECTED TOWARDS ADJACENT PROPERTIES AND ROADWAYS.
- 10. ALL PARKING LOT AND DRIVEWAY LIGHTING SHALL BE EQUIPPED WITH A TIMER OR OTHER CONTROLLER TO EITHER SHUT OFF OR REDUCE TO 25% INTENSITY EVERY EVENING AT 10PM.
- 11. ALL PARKING LOT AND DRIVEWAY LIGHTING FIXTURES SHALL BE FULL CUT-OFF AND 3000K COLOR TEMPERATURE SO AS TO BE DARK-SKY COMPLIANT AND SHALL PROVIDE LIGHTING DIRECTED ON-SITE ONLY.
- 12. THIS LIGHTING DESIGN WAS PROVIDED IS BASED ON LIMITED INFORMATION PROVIDED BY VISIBLE LIGHT, INC., 24 STICKNEY TERRACE, SUITE 6, HAMPTON, NH 03842. FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, MOUNTING HEIGHT, CIRCUITRY, ETC.) SHALL BE COORDINATED BETWEEN THE CONTRACTOR, ARCHITECT AND SPECIFIER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE LIGHTING INSTALLATION MEETS THE ILLUMINATION LEVELS SHOWN HERE.

VF.ies

Lamp Filename

LED

LED

LED

LED

LED

Front Parking Lot/Drive + 1.0 fc 9.5 fc 0.4 fc 23.8:1 2.

UO - GO

 WDGE1_LED_P
 1161
 0.9
 10.0002
 TYPE II, VERY
 10.0002

 1_30K_80CRI_
 VF.ies
 10.0002
 SHORT, BUG
 RATING: B0 10.0002

13. SEE DETAIL SHEETS FOR POLE BASE AND CONDUIT TRENCH DETAILS.

<u>Statistics</u>

Description

Courtyard

Courtyard

Landscape Area

<u>Landscape</u> Area

Landscape Area

Landscape Area

Side Parking Lot

White Oak Drive

Under Canopy

Description

mounted at 12ft

(20ft pole on 2ft

shield; mounted at

22ft (20ft pole on

(20ft pole on 2.5ft

shield; mounted at 22ft (20ft pole on

(20ft pole on 2ft

2ft base)

2ft base)

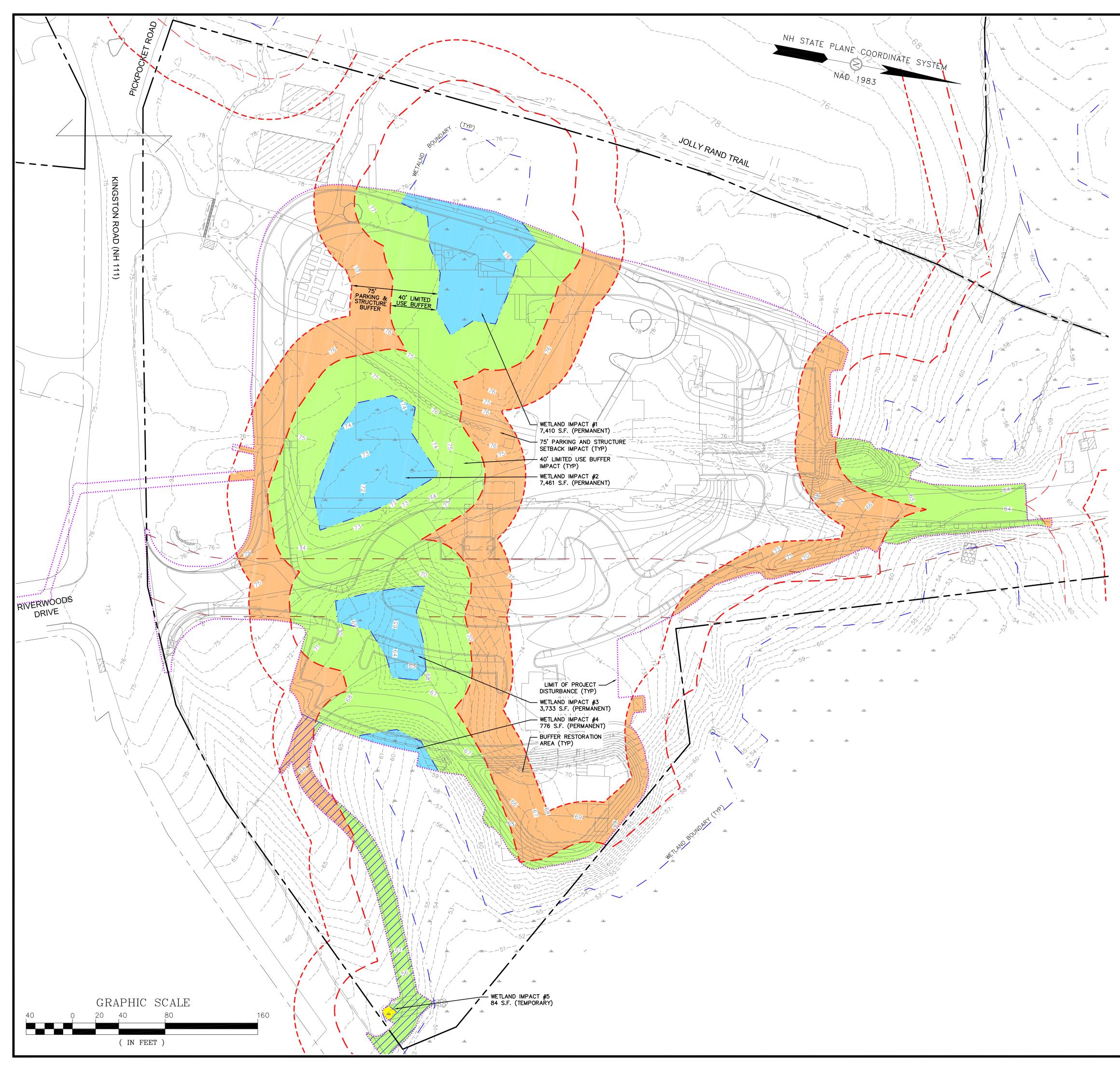
Outside of Parking Lot

Perimeter Service Drive

RDINATE LOCATION BEFORE INSTALLING			RGROUND	UTILIIES, DRAINA	GE	
WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE					ALTUS	
LIGHT POLES SHALL BE UNDERGROUND. PVC SCH 40, SIZING AND QUANTITIES PER ELECTRICAL CONTRACTOR. DING BUT NOT LIMITED TO ANY SAWCUTTING, TRENCHING, BACKFILLING						
ALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR. FINAL ELECTRICAL CONTRACTOR.					133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com	
, COLORS PER THE RDINATE WITH ARC	E RESPECT HITECT AN	IVE UTILI [.] D ELECTF	TY PROVID RICAL CON	ERS. TRACTOR FOR A		
BUT NOT LIMITED T ERS, ETC. ALL WIF FOR.					SIBILITY	
RAL PLANS FOR A						
) INDUSTRY STAND ACTURING TOLERAN						
BE DOWN-LIT AND PROPERTIES AND AY LIGHTING SHAL	ROADWAYS	5.			SHT IS	
OFF OR REDUCE 1	IO 25% INT JRES SHAL	'ENSITY E L BE FUL	EVERY EVE _L CUT-OF	NING AT 10PM. F AND 3000K C	OLOR	VISIBLELIGHT
OARK-SKY COMPLIA					F	
RACE, SUITE 6, HA TED PERFORMANCE S, ORIENTATION, M	MPTON, NH . PRIOR 1 OUNTING H	H 03842. TO INSTAI EIGHT, C	FIELD DI LLATION, C IRCUITRY,	EVIATIONS MAY CRITICAL SITE ETC.) SHALL BE		
ONTRACTOR, ARCH HAT THE LIGHTING	IIECT AND INSTALLA	SPECIFIE TION MEE	LR. THE CO TS THE ILI	UN TRACTOR SHA	ll BE ELS	
BASE AND CONDU	JIT TRENCH	I DETAILS	6.			
						NOT FOR CONSTRUCTION
						ISSUED FOR: REVIEW
						ISSUE DATE:
						OCTOBER 23, 2024 REVISIONS
						NO. DESCRIPTIONBYDATE0INITIAL SUBMISSIONEBS09/10/24
						1 REVISED PER COMMENTS EBS 10/23/24
	ĺ		i			
Symbol +	Avg 0.6 fc	Max 4.6 f			Avg/Min N/A	
Drive +	0.4 fc 1.0 fc				N/A 2.5:1	DRAWN BY:EBS
+	1.0 fc 0.9 fc				10.0:1 2.3:1	APPROVED BY: EBS DRAWING FILE: 5015-SITE.dwg
+	0.8 fc 1.2 fc	4.1 f			N/A 12.0:1	<u>SCALE:</u>
g Lot + Drive +	0.1 fc 1.2 fc	1.9 f 5.4 f			N/A 3.0:1	24" x 36" - 1" = 40' 11" x 17" - 1" = NOT TO SCALE
+	1.3 fc 15 fc	19 fo	c 0 fo	c N/A	2.6:1 N/A	OWNER:
<u> </u>	0.9 fc	1.7 f	c 0.4	fc 4.3:1	2.3:1	RIVERWOODS COMPANY AT EXETER
Filename	Lumens per Lamp	LLF	Wattage	Distribution	Wattage	7 RIVERWOODS DRIVE
RADB_LED_P5 _30K_SYM_DD BXD.ies	2116	0.9	32.31	TYPE VS, BUG RATING: B1 – U1 – G0	32.31	EXETER, NH 03833
L6_23LM_30K 120_G4_80CRI _ZT_WPR_CD.i	1736	0.9	23.52	DIRECT, SC- 0=1.12, SC- 90=1.12	23.52	APPLICANT: RIVERWOODS COMPANY
es						AT EXETER
DSX0_LED_P4 _30K_80CRI_T 3M.ies	9695	0.9	93.04	TYPE IV, MEDIUM, BUG RATING: B2 –	93.04	7 RIVERWOODS DRIVE EXETER, NH 03833
5				U0 – G3		,
DSX0_LED_P4 _30K_80CRI_T	8404	0.9	93.04	TYPE IV, MEDIUM, BUG RATING: B1 –	93.04	PROJECT:
3M_HS.ies				U0 - G3		RIVERWOODS
DSX0_LED_P4 _30K_80CRI_T	9908	0.9	93.04	TYPE IV, SHORT, BUG	93.04	SUPPORTIVE LIVING HEATH CENTER
FTM.ies				RATING: B2 – U0 – G3		TAX MAP 97 LOT 23
DSX0_LED_P4	8309	0.9	93.04	TYPE IV, SHORT, BUG	93.04	5 WHITE OAK DRIVE EXETER, NH 03833
_30K_80CRI_T FTM_HS.ies				RATING: B1 – U0 – G2		<u>TITLE:</u>
DSX0_LED_P4	10124	0.9	93.04	TYPE VS, BUG	93.04	
_30K_80CRI_T 5M.ies		-		RATING: B4 – U0 – G2		
						LIGHTING PLAN

SHEET NUMBER:

C-10



WETLAND NOTES

NHDES WETLAND IMPACT	ANALYSIS:
	<u>AREA</u>
PERMANENT IMPACT:	19,380 S.F.
TEMPORARY IMPACT:	84 S.F.

2. TOWN OF EXETER WETLAND BUFFER IMPACT ANALYSIS: <u>AREA</u> 63,296 S.F. 40' LIMITED USE BUFFER: 75' PARKING AND STRUCTURE BUFFER: 52,532 S.F. TOTAL BUFFER IMPACT: 115,828 S.F.

3. WETLAND BUFFER RESTORATION AREA:

<u>AREA</u> 3,901 S.F. 40' LIMITED USE BUFFER: 75' PARKING AND STRUCTURE BUFFER: 1,736 S.F. TOTAL BUFFER RESTORATION: 5,637 S.F.

- 4. WETLANDS WERE DELINEATED BY GOVE ENVIRONMENTAL SERVICES INC. ON 01/11/23. NO POTENTIAL VERNAL POOLS WERE IDENTIFIED. WETLANDS WERE DELINEATED UTILIZING THE FOLLOWING STANDARDS:
- REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL:
- REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS.
 FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, VERSION 8.2. UNITED STATES DEPARTMENT OF AGRICULTURE (2018).
 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.
 U.S. ARMY CORPS OF ENGINEERS NATIONAL WETLAND PLANT LIST, VERSION 3.5. (2020)
 CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES. USFW MANUAL FWS/OBS-79/31 (1979).

LEGEND

- - - 40' LIMITED USE BUFFER ---- 75' PARKING AND STRUCTURE BUFFER LIMIT OF PROJECT DISTURBANCE - · · - · · - WETLAND BOUNDARY PROPOSED 40' WETLAND BUFFER IMPACT PROPOSED 75' WETLAND SETBACK IMPACT PROPOSED WETLAND IMPACT (PERMANENT) PROPOSED WETLAND IMPACT (TEMPORARY)

PROPOSED BUFFER RESTORATION AREA

NOT FOR CONSTRUCTION
ISSUED FOR:
REVIEW
ISSUE DATE: OCTOBER 23, 2024
REVISIONSNO. DESCRIPTIONBY0INITIAL SUBMISSION1REVISED PER COMMENTSEBS10/23/24
DRAWN BY:EBS
APPROVED BY: EBS DRAWING FILE: 5015-SITE.dwg
SCALE:
24" x 36" - 1" = 40' 11" x 17" - 1" = NTS
OWNER:
RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
APPLICANT:
RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
PROJECT: RIVERWOODS SUPPORTIVE LIVING HEATH CENTER
TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833

(603) 433-2335

ALTUS

ENGINEERING

133 Court Street Portsmouth, NH 03801

ERIC

WEINRIEB No. 7634

10/20/24

www.altus-eng.com

CONDITIONAL USE PERMIT PLAN SHEET NUMBER:

C-11

RIVER	JECT NAME AND LOCATION	NSTALLATION, MAINTENANCE AND
EXETE	WOODS SUPPORTIVE LIVING HEALTH CENTER LATITUDE: 42°58'10" N ITE OAK DRIVE LONGITUDE: 70°59'02" W ER, NEW HAMPSHIRE MAP 97, LOT 23	TEMPORARY EROSION AND SEDIM Wood Chips or 460 to 9 Bark Mulch
OWNE RIVER	R/APPLICANT WOODS GROUP ERWOODS DRIVE	Jute and Fibrous As per m Matting (Erosion Specificat Blanket)
EXETE	CRIPTION	Crushed Stone Spread m 1/4" to 1–1/2" dia. 1/2" thic
The p	project consists of a new senior independent living healthcare center together with iated site improvements.	Erosion Control Mix 2" thick
<u>PRO</u> ر	JECT PHASING	
	project will be completed in one phase. <u>E OF RECEIVING WATER</u>	
	site drains to an unnamed wetland complex tributary to Scamman Brook. JENCE OF MAJOR ACTIVITIES	 Maintenance – All mulches must be check for rill erosion. If less than 9 mulch shall be immediately applied.
2. 3.	Attend pre-construction meeting with Town and relevant stakeholders. Prepare SWPPP and file NOI at least two weeks prior to initiating earthwork. Cut trees but do not remove stumps.	C. PERMANENT SEEDING – 1. Bedding – stones larger than $\frac{1}{2}$ ", tr and future maintenance of the area
5. 6.	Install temporary erosion control measures including perimeter controls, stabilized construction entrance and inlet sediment filters as noted on the plan. All temporary erosion control measures shall be maintained in good working condition for the duration of the project. Demolish buildings and other site features. Stump, grub and strip and stockpile loam. Relocate utilities and roadway.	tilled to a depth of 5" to prepare a 2. Fertilizer — lime and fertilizer should of seeding and incorporated into the should be based on an evaluation of
8. 9. 10.	Shape and stabilize primary stormwater ponds and swales. Construct building foundation. . Rough grade site. . Construct drainage structures and utilities.	minimum amounts should be applied: Agricultural Limestone @ 100 10-20-20 organic fertilizer @
12. 13. 14.	. Fine grade site. . Install pavement subgrade. . Install base course paving.	3. Seed Mixture (for lawns**):
16. 17. 18.	. Install curbing. . Install landscaping. . Loam (6" min) and seed all disturbed areas not paved or otherwise stabilized. . Install top course paving.	TypeLbs. / AdTall Fescue24Creeping Red Fescue24Total48
11.	. Install striping and signage. . When all construction activity is complete and site is stabilized, remove all temporary erosion control measures and any sediment that has been trapped by these devices. PORARY EROSION & SEDIMENT CONTROL AND STABILIZATION PRACTICES	Seed Mixture (For slope embankments Grass Seed: Provide fresh, clean, ne germination established by Official See composed of grass species, proportior
describ amend to cor with th measu During	rk shall be in accordance with state and local permits. Work shall conform to the practices bed in the "New Hampshire Stormwater Manual, Volumes 1 - 3", issued December 2008, as ded. As indicated in the sequence of Major Activities, perimeter controls shall be installed prior mmencing any clearing or grading of the site. Structural controls shall be installed concurrently he applicable activity. Once construction activity ceases permanently in an area and permanent ires are established, perimeter controls shall be removed. construction, runoff will be diverted around the site with stabilized channels where possible. runoff from the site shall be filtered through appropriate perimeter controls. All storm drain	maximum percentage of weed seed, c <u>Type</u> Creeping Red Fescue (c) Perennial Rye Grass (a) Redtop Alsike Clover 97
inlets Tempo sedime establi	shall be provided with inlet protection measures. prary and permanent vegetation and mulching is an integral component of the erosion and entation control plan. All areas shall be inspected and maintained until vegetative cover is ished. These control measures are essential to erosion prevention and also reduce costly rework ided and shaped areas.	a. Ryegrass shall be a certified fine- Diplomat, or equal. b. Fescue varieties shall include — C Jamestown. c. Alternate seed mixtures may be u
of gra		architect.
Tempo Additio establi		architect. ** In the event that the seed mi the landscape plans shall gove 4. Sodding — sodding is done where it Sodding an area may be substituted
Tempo Additio establi <u>INSTA</u> <u>TEMF</u>	onally, erosion and sediment control measures shall be maintained until permanent vegetation is	architect. ** In the event that the seed mi the landscape plans shall gove 4. Sodding — sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily erodible
Tempo Additio establi <u>INSTA</u> <u>TEMF</u>	onally, erosion and sediment control measures shall be maintained until permanent vegetation is asked. ALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR PORARY EROSION AND SEDIMENT CONTROL MEASURES	architect. ** In the event that the seed mi the landscape plans shall gove 4. Sodding — sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily erodible <u>WINTER CONSTRUCTION NOTES</u> 1. All proposed vegetated areas which d
Tempo Additio establi <u>INST/</u> <u>TEMF</u> A.	ALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR PORARY EROSION AND SEDIMENT CONTROL MEASURES GENERAL These are general inspection and maintenance practices that shall be used to implement the plan: The smallest practical portion of the site shall be denuded at one time but in no case shall exceed 5 acres at any one time before disturbed areas are stabilized. All control measures shall be inspected at least once each week and following any storm event	architect. ** In the event that the seed mi the landscape plans shall gove 4. Sodding - sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily erodible <u>WINTER CONSTRUCTION NOTES</u> 1. All proposed vegetated areas which d October 15th, or which are disturbed installing erosion control blankets on placing 3 to 4 tons of mulch per ac erosion control blankets or mulch and
Tempo Additio establi INST/ TEMF A. 1. 2. 3. 4.	ALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR PORARY EROSION AND SEDIMENT CONTROL MEASURES GENERAL These are general inspection and maintenance practices that shall be used to implement the plan: The smallest practical portion of the site shall be denuded at one time but in no case shall exceed 5 acres at any one time before disturbed areas are stabilized. All control measures shall be inspected at least once each week and following any storm event of 0.25 inches or greater. All measures shall be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours. Built-up sediment shall be removed from perimeter barriers when it has reached one-third the height of the barrier or when "bulges" occur.	architect. ** In the event that the seed mi the landscape plans shall gove 4. Sodding — sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily erodible
Tempo Additio establi INSTA TEMF A. 1. 2. 3. 4. 5. 6.	ALLATION. MAINTENANCE AND INSPECTION PROCEDURES FOR PORARY EROSION AND SEDIMENT CONTROL MEASURES GENERAL These are general inspection and maintenance practices that shall be used to implement the plan: The smallest practical portion of the site shall be denuded at one time but in no case shall exceed 5 acres at any one time before disturbed areas are stabilized. All control measures shall be inspected at least once each week and following any storm event of 0.25 inches or greater. All measures shall be removed from perimeter barriers when it has reached one-third the height of the barrier or when "bulges" occur. All diversion dikes shall be inspected and any breaches promptly repaired. Temporary seeding and planting shall be inspected for bare spots, washouts, and unhealthy growth. The owner's authorized engineer shall inspect the site on a periodic basis to review compliance	architect. ** In the event that the seed mi the landscape plans shall gove 4. Sodding - sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily erodibl <u>WINTER CONSTRUCTION NOTES</u> 1. All proposed vegetated areas which d October 15th, or which are disturbed installing erosion control blankets on placing 3 to 4 tons of mulch per ac erosion control blankets or mulch and frozen ground and shall be completed 2. All ditches or swales which do not ex- 15th, or which are disturbed after Oc
Tempo Additio establi <u>INST/</u> TEMF A. 1. 2. 3. 4. 5. 6. 7. 8. 9.	ALLATION. MAINTENANCE AND INSPECTION PROCEDURES FOR ORARY EROSION AND SEDIMENT CONTROL MEASURES GENERAL These are general inspection and maintenance practices that shall be used to implement the plan: The smallest practical portion of the site shall be denuded at one time but in no case shall exceed 5 acres at any one time before disturbed areas are stabilized. All control measures shall be inspected at least once each week and following any storm event of 0.25 inches or greater. All measures shall be removed from perimeter barriers when it has reached one-third the height of the barrier or when "bulges" occur. All diversion dikes shall be inspected and any breaches promptly repaired. Temporary seeding and planting shall be inspected for bare spots, washouts, and unhealthy growth. The owner's authorized engineer shall inspect the site on a periodic basis to review compliance with the Plans. All cut and fill slopes shall be loarned and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loarned and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loarned and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loarned and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loarned and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loarned and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loarned and seeded within 72 hours of achieving final grade. All area shall be considered stable if one of the following has occurred: a. Base coarse gravels have been installed in areas to be pave(; b. A minimum of 85% vegetated growth as been established;	 architect. ** In the event that the seed mithe landscape plans shall gove 4. Sodding – sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily erodible WINTER CONSTRUCTION NOTES 1. All proposed vegetated areas which do October 15th, or which are disturbed installing erosion control blankets on placing 3 to 4 tons of mulch per acterosion control blankets or mulch and frozen ground and shall be complete 2. All ditches or swales which do not e 15th, or which are disturbed after October 15th, incomplete road season shall be protected with a mir
Tempo Additio establi INST/ TEMF A. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	ALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR ORARY EROSION AND SEDIMENT CONTROL MEASURES GENERAL These are general inspection and maintenance practices that shall be used to implement the plan: The smallest practical portion of the site shall be denuded at one time but in no case shall exceed 5 acres at any one time before disturbed areas are stabilized. All control measures shall be inspected at least once each week and following any storm event of 0.25 inches or greater. All measures shall be removed from perimeter barriers when it has reached one-third the height of the barrier or when "bulges" occur. All diversion dikes shall be inspected and any breaches promptly repaired. Temporary seeding and planting shall be inspect the site on a periodic basis to review compliance with the Plans. All roadways and parking lots shall be stabilized within 72 hours of achieving final grade. All roadways and parking lots shall be stabilized within 72 hours of achieving final grade. All cut and fill slopes shall be loamed and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loamed and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loamed and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loamed and seeded within 72 hours of achieving final grade.	 architect. ** In the event that the seed mittee landscape plans shall gove 4. Sodding – sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily erodible WINTER CONSTRUCTION NOTES 1. All proposed vegetated areas which do October 15th, or which are disturbed installing erosion control blankets on placing 3 to 4 tons of mulch per acterosion control blankets or mulch antroposed number of the sensitive of the sensitive blankets or mulch antroposed of the sensitive blankets or mulch antroposed and shall be complete 2. All ditches or swales which do not e 15th, or which are disturbed after October 15th, incomplete road season shall be protected with a mit 304.3.
Tempo Additio establi <u>INST/</u> TEMF A. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 9.	 nnally, erosion and sediment control measures shall be maintained until permanent vegetation is ished. ALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR PORARY EROSION AND SEDIMENT CONTROL MEASURES GENERAL These are general inspection and maintenance practices that shall be used to implement the plan: The smallest practical portion of the site shall be denuded at one time but in no case shall exceed 5 acres at any one time before disturbed areas are stabilized. All control measures shall be inspected at least once each week and following any storm event of 0.25 inches or greater. All measures shall be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours. Built-up sediment shall be removed from perimeter barriers when it has reached one-third the height of the barrier or when "bulges" occur. All diversion dikes shall be inspected and any breaches promptly repaired. Temporary seeding and planting shall be inspected for bare spots, washouts, and unhealthy growth. The owner's authorized engineer shall inspect the site on a periodic basis to review compliance with the Plans. All roadways and parking lots shall be stabilized within 72 hours of achieving final grade. All cut and fill slopes shall be loamed and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loamed and seeded within 72 hours of achieving final grade. All cut and fill slopes shall be loamed and seeded within 72 hours of achieving final grade. A minimum of 3 inches of non-erosive material such as stone of riprap has been installed; a or - Torsion control blankets have been properly installed. The length of time of exposure of area disturbed during construction shall not exceed 45 days. MULCHING 	 architect. ** In the event that the seed m the landscape plans shall gov 4. Sodding – sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily erodible WINTER CONSTRUCTION NOTES 1. All proposed vegetated areas which or October 15th, or which are disturbed installing erosion control blankets on placing 3 to 4 tons of mulch per are erosion control blankets or mulch an frozen ground and shall be complete 2. All ditches or swales which do not e 15th, or which are disturbed after Oo erosion control blankets appropriate f 3. After October 15th, incomplete road season shall be protected with a mir 304.3.
Tempo Additio establi INST/ TEMF A. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 9. 8. 9. 10.	 analy, erosion and sediment control measures shall be maintained until permanent vegetation is ished. ALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR CORARY EROSION AND SEDIMENT CONTROL MEASURES GENERAL These are general inspection and maintenance practices that shall be used to implement the plan: The smallest practical portion of the site shall be denuded at one time but in no case shall exceed 5 acres at any one time before disturbed areas are stabilized. All control measures shall be inspected at least once each week and following any storm event of 0.25 inches or greater. All measures shall be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours. Built-up sediment shall be inspected and any breaches promptly repaired. Temporary seeding and planting shall be inspect the site on a periodic basis to review compliance with the Plans. All roadways and parking lots shall be stabilized within 72 hours of achieving final grade. All roadways and parking lots shall be stabilized within 72 hours of achieving final grade. All roadways and parking lots shall be stabilized within 72 hours of achieving final grade. All roadways and parking lots shall be stabilized within 72 hours of achieving final grade. All roadways and parking lots shall be stabilized within 72 hours of achieving final grade. All roadways and parking lots shall be stabilized within 72 hours of achieving final grade. An area shall be comidered stable if one of the following has occurred: Base coarse gravels have been installed in areas to be paved; A minimum of 3 inches of non-erosive material such as stone of riprap has been installed; - or - d. Erosion control blankets have been properly installed. The length of time of exposure of area disturbed during construction shall not exceed 45 days. 	architect. ** In the event that the seed mi the landscape plans shall gov 4. Sodding – sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily eradibl WINTER CONSTRUCTION NOTES 1. All proposed vegetated areas which co October 15th, or which are disturbed installing erosion control blankets on placing 3 to 4 tons of mulch per ac erosion control blankets or mulch an frozen ground and shall be complete 2. All ditches or swales which do not e 15th, or which are disturbed after Oc erosion control blankets appropriate f 3. After October 15th, incomplete road season shall be protected with a mir 304.3. STAKE ON 10' LIN WATER FLOW WORK AREA WORK AREA FILTREXX (COMPOST
Tempo Additio establi INST/ TEMF A. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 9. 8. 9. 10.	 naily, erosion and sediment control measures shall be maintained until permanent vegetation is shed. ALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR PORARY EROSION AND SEDIMENT CONTROL MEASURES GENERAL These are general inspection and maintenance practices that shall be used to implement the plan: The smallest practical portion of the site shall be denuded at one time but in no case shall exceed 5 acres at any one time before disturbed areas are stabilized. All control measures shall be inspected at least once each week and following any storm event of 0.25 inches or greater. All measures shall be maintained in good working order; if a repoir is necessary, it will be initiated within 24 hours. Built-up sediment shall be inspected and any breaches promptly repaired. Temporary seeding and planting shall be inspected for bare spots, washouts, and unhealthy growth. The owner's authorized engineer shall inspect the site on a periodic basis to review compliance with the Plans. All cut and fill slopes shall be installed in oreas to be paved; A minimum of 85% vegetated growth as been established; A minimum of 85% vegetated growth as been established; A minimum of 3 inches of non-erosive material such as stone of riprop has been installed; nore of the following construction shall not exceed 45 days. MULCHING Mulch shall be used on highly eradible soils, on critically erading areas, on areas where conservation of moisture will facilitate plant establishment, and where shown on the plans. Timing — In order for mulch to be effective, it must be in place prior to major storm events. There are two (2) types of standards which shall be used to assure this: A pay mulch prior to any storm event. This is applicable when working within 100 feet of wetands. It will be necessary to closely monitor weather predictions, usually by contacting the National Watcher Service	 architect. ** In the event that the seed m the landscape plans shall gov 4. Sodding – sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily erodibl MINTER CONSTRUCTION NOTES 1. All proposed vegetated areas which or October 15th, or which are disturbed installing erosion control blankets on placing 3 to 4 tons of mulch per ac erosion control blankets or mulch an frozen ground and shall be complete 2. All ditches or swales which do not e 15th, or which are disturbed after Oo erosion control blankets appropriate f 3. After October 15th, incomplete road season shall be protected with a mir 304.3. YMER FLOW WORK AREA PLAN VIEW
Tempo Additio establi INST/ TEMF A. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 9. B. 1.	 naily, erosion and sediment control measures shall be maintained until permanent vegetation is shed. ALLATION, MAINTENANCE AND INSPECTION PROCEDURES FOR CORARY EROSION AND SEDIMENT CONTROL MEASURES GENERAL These are general inspection and maintenance practices that shall be used to implement the plan: The smallest practical portion of the site shall be denuded at one time but in no case shall exceed 5 acres at any one time before disturbed areas are stabilized. All control measures shall be inspected at least once each week and following any storm event of 0.25 inches or greater. All measures shall be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours. Built-up sediment shall be removed from perimeter barriers when it has reached one-third the height of the barrier or when "builges" occur. All diversion dikes shall be inspected and any breaches promptly repaired. Temporary seeding and planting shall be inspect for bare spats, washouts, and unhealthy growth. The owner's authorized engineer shall inspect the site on a periodic basis to review compliance with the Plans. All roadways and parking lots shall be stabilized within 72 hours of achieving final grade. All area dill be considered stable if one of the following has occurred: Base coarse gravels have been installed in areas to be paved; A minimum of 3' inches of non-erosive material such as stone of riprap has been installed; - or - d. Erosion control blankets have been properly installed. The length of time of exposure of area disturbed during construction shall not exceed 45 days. MULCHING Mulch shall be used on highly erodible solis, on critically eroding areas, on areas where conservation of moisture will facilitate plant establishment, and where shown on the plans. Timing - In order for mulch to be effective, it must be in place pr	 architect. ** In the event that the seed mithe landscape plans shall gov. 4. Sodding – sodding is done where it Sodding an area may be substituted preparation, fertilizing, and placement Handbook. Sodding is recommended sensitive water courses, easily erodible MINTER CONSTRUCTION NOTES 1. All proposed vegetated areas which on October 15th, or which are disturbed installing erosion control blankets on placing 3 to 4 tons of mulch per accerosion control blankets or mulch an frozen ground and shall be complete 2. All ditches or swales which do not en 15th, or which are disturbed after Occerosion control blankets appropriate for the season shall be protected with a mitr 304.3. After October 15th, incomplete road season shall be protected with a mitr 304.3. After FLOW WORK AREA WORK AREA BLAN VIEW

INSPECTION PROCEDURES FOR ENT CONTROL MEASURES (CONTINUED)

	· · ·
920 lbs.	Used mostly with trees and shrubs.
manufacturer cations	Used in slope areas, water courses and other Control areas.
more than nick	Effective in controlling wind and water erosion.
k (min)	 * The organic matter content is between 80 and 100%, dry weight basis. * Particle size by weight is 100% passing a 6"screen and a minimum of 70 %, maximum of 85%, passing a 0.75" screen. *The organic portion needs to be fibrous and elongated. *Large portions of silts, clays or fine sands are not acceptable in the mix. * Soluble salts content is less than 4.0 mmhos/cm. *The pH should fall between 5.0 and 8.0.

spected periodically, in particular after rainstorms, to % of the soil surface is covered by mulch, additional

ash, roots, and other debris that will interfere with seeding nould be removed. Where feasible, the soil should be seedbed and mix fertilizer into the soil.

applied evenly over the area prior to or at the time soil. Kinds and amounts of lime and organic fertilizer soil tests. When a soil test is not available, the following

. per 1,000 s.f. 12 lbs. per 1,000 s.f.

-crop seed complying with tolerance for purity and d Analysts of North America. Provide seed mixture and minimum percentages of purity, germination, and s specified:

	Min.		Kg./Hectare
(%)	<u>Germination (</u>	%)	<u>(Lbs/Acre)</u>
	85		45 (40)
	90		35 (30)
	80		5 (5)
	90(e)		5 (5)
		Total	90 (80)

extured variety such as Pennfine, Fiesta, Yorktown,

eeping Red and/or Hard Reliant, Scaldis, Koket, or

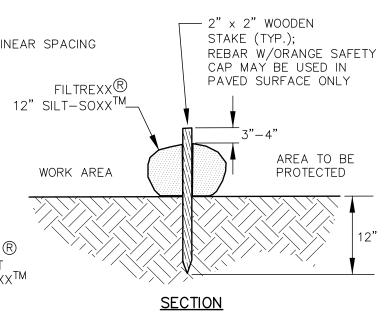
sed with the approval of the engineer and landscape es shown here conflict with the project landscape plans,

desirable to rapidly establish cover on a disturbed area. or permanent seeding procedures anywhere on site. Bed f sod shall be performed according to the S.C.S. for steep sloped areas, areas immediately adjacent to soils (fine sand/silt), etc.

not exhibit a minimum of 85% vegetative growth by after October 15th, shall be stabilized by seeding and slopes greater than 3:1, and elsewhere seeding and secured with anchored netting. The installation of netting shall not occur over accumulated snow or on in advance of thaw or spring melt events;

hibit a minimum of 85% vegetative growth by October ober 15th, shall be stabilized temporarily with stone or r the design flow conditions; and

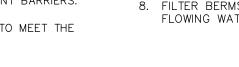
parking surfaces where work has stopped for the winter num of 3 inches of crushed gravel per NHDOT Item

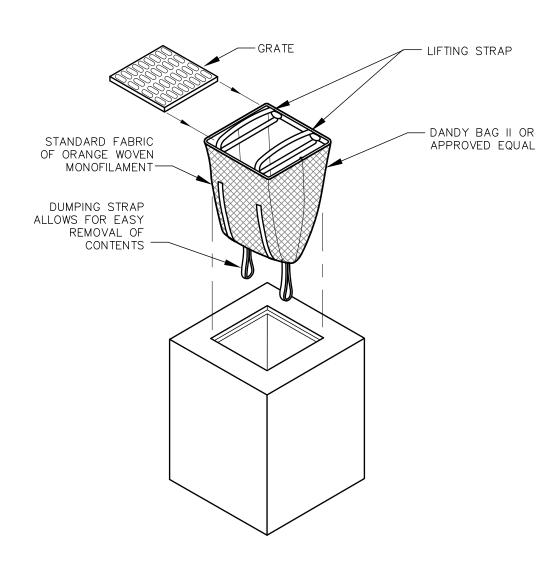


D IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS. TERIAL SHALL BE ADJUSTED AS NECESSARY TO MEET THE BE DISPOSED OF PROPERLY.

ARRIER

NOT TO SCALE





INSTALLATION AND MAINTENANCE:

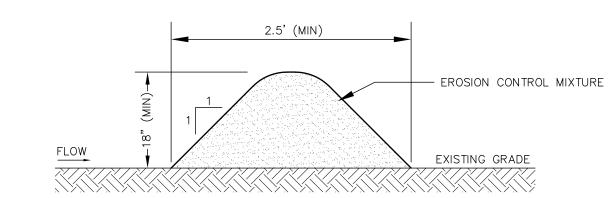
INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO CATCH BASIN INSERT SO THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF THE UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE CATCH BASIN INSERT. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY THE UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

UNACCEPTABLE INLET PROTECTION METHOD:

A SIMPLE SHEET OF GEOTEXTILE UNDER THE GRATE IS NOT ACCEPTABLE.

STORM DRAIN INLET PROTECTION NOT TO SCALE

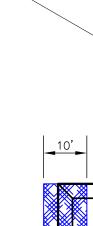


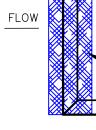
<u>NOTES</u>

- 1. ORGANIC FILTER BERMS MAY BE UTILIZED IN LIEU OF SILT FENCE OR OTHER SEDIMENT BARRIERS.
- 2. THE EROSION CONTROL MIXTURE USED IN FILTER BERMS SHALL BE A WELL-GRADED MIX OF PARTICLE SIZES THAT MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER, STUMP GRINDINGS, SHREDDED OR COMPOSTED BARK, AND/OR ACCEPTABLE MANUFACTURED PRODUCTS AND SHALL BE FREE OF REFUSE, PHYSICAL CONTAMINANTS AND MATERIAL TOXIC TO PLANT GROWTH. EROSION CONTROL MIXTURE SHALL MEET THE FOLLOWING STANDARDS:
- a) THE ORGANIC CONTENT SHALL BE 80-100% OF DRY WEIGHT.
- PASSING A 0.75" SCREEN.
- c) THE ORGANIC PORTION SHALL BE FIBROUS AND ELONGATED. d) LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS SHALL NOT BE INCLUDED IN THE MIXTURE. e) SOLUBLE SALTS CONTENT SHALL BE >4.0mmhos/cm. f) THE pH SHALL BE BETWEEN 5.0 AND 8.0.
- 3. ORGANIC FILTER BERMS SHALL BE INSTALLED ALONG A RELATIVELY LEVEL CONTOUR. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FINES TO WASH UNDER THE BERM.
- 4. ON SLOPES LESS THAN 5%, OR AT THE BOTTOM OF SLOPES NO STEEPER THAN 3:1 AND UP TO 20' LONG, THE BERM SHALL BE A MINIMUM OF 12" HIGH (AS MEASURED ON THE UPHILL SIDE) AND A MINIMUM OF 36" WIDE. ON LONGER AND/OR STEEPER SLOPES, THE BERM SHALL BE TALLER AND WIDER TO ACCOMMODATE THE POTENTIAL FOR ADDITIONAL RUNOFF (MAXIMUM HEIGHT SHALL NOT EXCEED 2').
- 5. FROZEN GROUND, OUTCROPS OF BEDROCK, AND VERY ROOTED FORESTED AREAS PRESENT THE MOST PRACTICAL AND EFFECTIVE LOCATIONS FOR ORGANIC FILTER BERMS. OTHER BMP'S SHOULD BE USED AT LOW POINTS OF CONCENTRATED RUNOFF, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS, AND AT THE BOTTOM OF STEEP PERIMETER SLOPES THAT HAVE A LARGE CONTRIBUTING ARFA
- 6. SEDIMENT SHALL BE REMOVED FROM BEHIND THE FILTER BERMS WHEN IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE BERM.
- 7. ORGANIC FILTER BERMS MAY BE LEFT IN PLACE ONCE THE SITE IS STABILIZED PROVIDED ANY SEDIMENT DEPOSITS TRAPPED BY THEM ARE REMOVED AND DISPOSED OF PROPERLY.
- 8. FILTER BERMS ARE PROHIBITED AT THE BASE OF SLOPES STEEPER THAN 8% OR WHERE THERE IS FLOWING WATER WITHOUT THE SUPPORT OF ADDITIONAL MEASURES SUCH AS SILTFENCE.

ORGANIC FILTER BERM

NOT TO SCALE





NOTES:

- 1. THE AREA VEGETATION
- 2. THE FILL OVER 6"S COMPACTED FILL IS TRA
- 3. CONSTRUC POLLUTION
- 4. ALL CUT A
- 5. OUTLET CRE 6. OUTLET CR
- IS TO BE T ONE FOOT LENGTH OF 7. ALL DISTUR
- MANAGEMEI 8. ALL TRAPS

REACH HAL TEMPC

EXISTI

CONSTRUCT

- 1. <u>Stone siz</u>
- 2. <u>LENGTH</u> -
- 3. <u>THICKNES</u> 4. <u>WIDTH</u> –
- 5. <u>FILTER FA</u>
- 6. <u>SURFACE</u> CONSTRU
- BERM WIT 7.
- <u>MAINTENA</u> TRACKING TOP DRES REPAIR A
- DROPPED, 8. WHEELS S
- WHEN WAS DRAINS IN
- RIGHTS-C ENGINEER.

9. STABILIZEI STABIL

b) PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN, AND 70-85%

	ATTIS
	ENGINEERING
Flow H	
FLOW	133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com
FLOW FLOW	ERIC D. WEINRIEB No. 7634
	ERIC D.
1'-HIGH BY 2'-WIDE BERM	WEINRIEB No. 7634
10' IF NECESSARY, TO DIVERT FLOW INTO TRAP. LENGTH	CENSED CONSCIENCE
AS REQUIRED.	CONAL ELEMANT
	$\Delta \nabla \nabla$
FLOW	10/22/24
SLOPE=2:1 (MIN)	
AMOCO #2004 GEOTEXTILE OR APPROVED EQUAL	
III II OR APPROVED EQUAL	
AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL ETATION, ROOTS, AND DEBRIS.	
FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS, WOODY VEGETATION, STONES R 6" SIZE, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIALS. THE FILL SHALL BE IPACTED BY ROUTING CONSTRUCTION EQUIPMENT OVER IT SO THAT THE ENTIRE AREA OF THE	
IS TRAVERSED BY AT LEAST ONE WHEEL OR TREAD TRACK OF THE EQUIPMENT.	NOT FOR CONSTRUCTION
ISTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER LUTION ARE MINIMIZED.	ISSUED FOR:
CUT AND FILL SLOPES SHALL BE 2:1 (H:V) OR FLATTER.	REVIEW
LET CREST ELEVATIONS SHALL BE AT LEAST ONE FOOT BELOW THE TOP OF THE EMBANKMENT. LET CREST IS TO BE STABILIZED WITH AMOCO #2004 GEOTEXTILE (OR APPROVED EQUAL), WHICH	ISSUE DATE:
O BE TOED INTO THE GROUND AT ITS ENDS AT LEAST SIX INCHES AND IS TO EXTEND AT LEAST FOOT INTO THE TRAP AND ONE FOOT DOWNSTREAM FROM THE OUTLET EDGE FOR THE ENTIRE GTH OF THE CREST.	OCTOBER 23, 2024 REVISIONS
DISTURBED AREAS SHALL BE VEGETATED USING THE APPROPRIATE VEGETATIVE BEST	NO. DESCRIPTION BY DATE
IAGEMENT PRACTICE. TRAPS ARE TO HAVE SEDIMENT DEPOSITS REMOVED AND DISPOSED PROPERLY ONCE THEY	0 INITIAL SUBMISSION EBS 09/10/2 1 REVISED PER COMMENTS EBS 10/23/2
CH HALF THE CAPACITY OF THE TRAP.	
IPORARY SEDIMENT TRAP NOT TO SCALE	
	DRAWN BY:EBS
AS SHOWN ON PLANS	APPROVED BY:EBS
	DRAWING FILE:5015-SITE.dwg
	SCALE:
DRIVE WIDTH SLOPE EXISTING	24" x 36" - 1" = NOT TO SCLAE
PLANS PAVEMENT	11" x 17" - 1" = NOT TO SCALE
	OWNER:
<u>PLAN VIEW</u>	RIVERWOODS COMPANY AT EXETER
✓ 6″ MOUNTABLE	
BERM	7 RIVERWOODS DRIVE EXETER, NH 03833
AS SHOWN ON PLANS	,
6" MIN.	
GROUND PROFILE PROFILE SET (10 OZ/SY)	RIVERWOODS COMPANY AT EXETER
<u>TRUCTION SPECIFICATIONS</u> ONE SIZE – 3" MINIMUM.	7 RIVERWOODS DRIVE EXETER, NH 03833
<u>NGTH</u> – DETAILED ON PLANS (50 FOOT MINIMUM).	
I <u>CKNESS</u> – SIX (6) INCHES (MINIMUM).	
<u>DTH</u> – FULL DRIVE WIDTH UNLESS OTHERWISE SPECIFIED.	RIVERWOODS
<u>TER FABRIC</u> – MIRAFI 600X OR EQUAL APPROVED BY ENGINEER. <u>RFACE WATER CONTRO</u> L – ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE	SUPPORTIVE LIVING
NSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A RM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.	HEATH CENTER
<u>INTENANCE</u> – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT ACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS WILL REQUIRE PERIODIC	
P DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND PAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, OPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.	TAX MAP 97 LOT 23 5 WHITE OAK DRIVE
IEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.	EXETER, NH 03833
IEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH AINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.	<u>TITLE:</u>
ABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED AT ALL ENTRANCES TO PUBLIC GHTS-OF-WAY, AT LOCATIONS SHOWN ON THE PLANS, AND/OR WHERE AS DIRECTED BY THE GINEER.	
BILIZED CONSTRUCTION EXIT NOT TO SCALE	DETAIL SHEET
	SHEET NUMBER:
	C-12

- NOTES 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES
- SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE
- OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

- IN THE STAPLE PATTERN GUIDE.

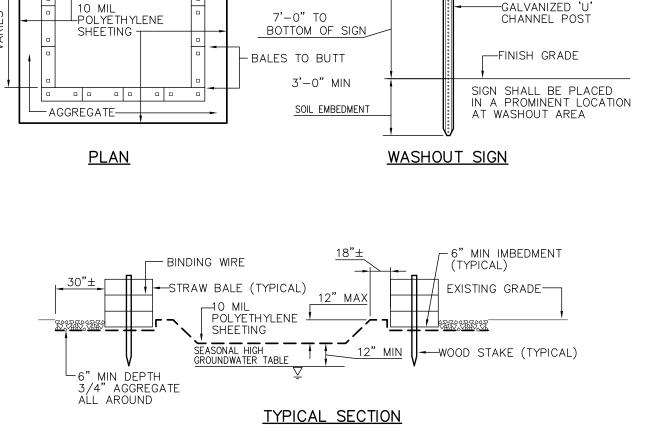
- ENTIRE WIDTH OF THE CHANNEL.
- ╧╄ 5

CONCRETE WASHOUT

- 6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.
- 5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
- 4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
- 3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
- 2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE
- LIQUID WASTES GENERATED.
- <u>NOTES</u> 1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.



10' MIN.



ANCHOR BALES WITH (2) 2"x2"x4'

STAKES PER BALE

L CONCRET

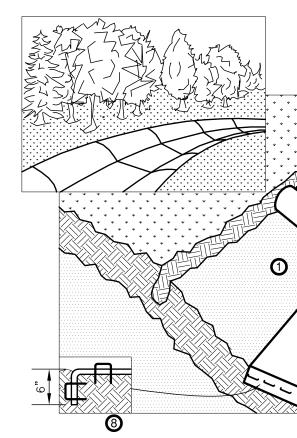
SHALL WASHOUT HERE

RUCKS - BLACK LETTERS

ON WHITE

BACKGROUND

NOT TO SCALE



<u>NOTES</u>

FERTILIZER, AND SEED.

IN THE STAPLE PATTERN GUIDE.

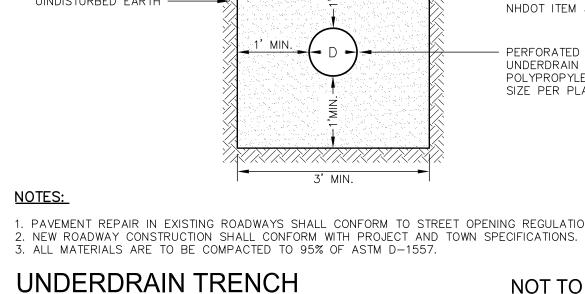
BLANKET BEING OVERLAPPED.

TRENCH AFTER STAPLING.

<u>NOTES:</u>

SURFACE.

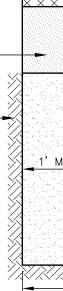
BLANKETS.



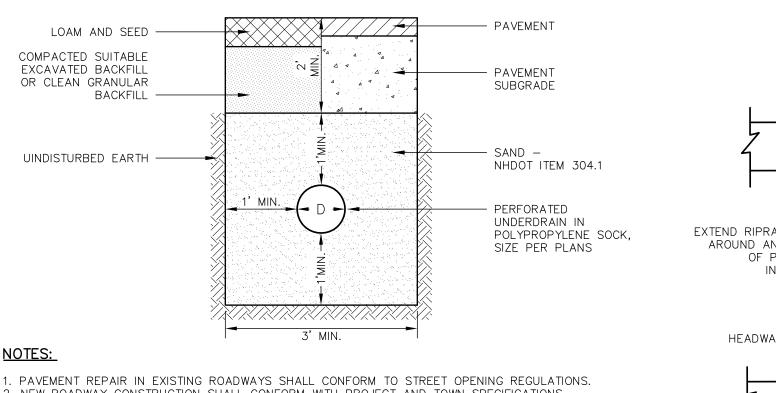
OR CLEAN GRANULAR BACKFILL UINDISTURBED EARTH ----

LOAM AND SEED

COMPACTED SUITABLE EXCAVATED BACKFILL



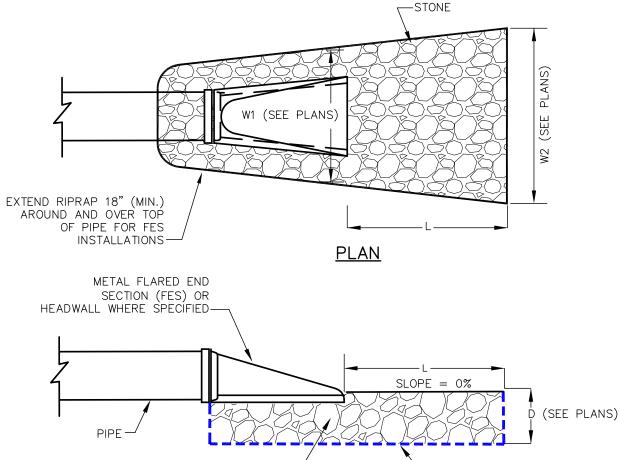
EROSION CONTROL BLANKET - SLOPE NOT TO SCALE EROSION CONTROL BLANKET - SWALE NOT TO SCALE



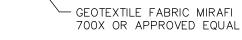




6"



RIPRAP-

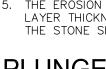






- <u>NOTES</u> 1. CONSTRUCT
- 2. THE SUBGRA THE DEPTH
- 3. EROSION STO <u>size</u>
- 12"
- 4. GEOTEXTILE OF THE EROS OF FABRIC OVERLAPS R
- 5. THE EROSION

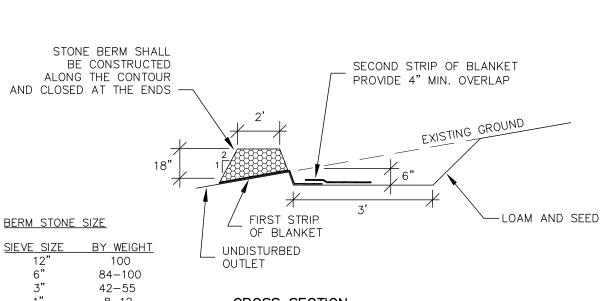






2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.

- 3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN
- 4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS. 5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF
- STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- AND STAPLED. TO INSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE
- 7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER
- 8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE
 - CRITICAL POINTS: . OVERLAPS AND SEAMS 3. PROJECTED WATER LINE C. CHANNEL BOTTOM/SIDE SLOPE VERTICES
 - * HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL ** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE



ISOMETRIC VIEW

BMPS TECHNICAL DESIGN MANUAL, CHAPTER 5.2.2, BUFFER WITH STONE BERMED LEVEL LIP

SPREADER", LATEST EDITION. 2. FOR EROSION CONTROL BLANKET STAPLE REQUIREMENTS SEE MANUFACTURER'S STANDARDS & SPECIFICATIONS FOR PROTECTIVE MATERIALS.

1. LEVEL SPREADERS SHALL BE CONSTRUCTED PER STORMWATER MANAGEMENT FOR MAINE, "VOLUME III

- 3. AREAS BELOW LEVEL SPREADERS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- LEVEL SPREADER

NOT TO SCALE

RIPRAP

8-12 CROSS SECTION

LAST 20' OF DIVERSION NOT TO EXCEED 1% GRADE

DIVERSION

UNDISTURBED ·

OUTLET

6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (DEPENDING ON BLANKET TYPE)

- EROSION CONTROL BLANKET

SHALL BE PLACED IF EROSION OCCURS OR AS



KEY RIPF FABRIC (MIN) IN

<u>NOTES</u>

- 1. CONSTRUCT
- 2. THE SUBGR
- GRADES SH 3. EROSION ST
- <u>size</u>

- 4. GEOTEXTILE
- OF THE ER OF FABRIC OVERLAPS
- INCHES. 5. THE EROSIC LAYER THI THE STONE

- NOT TO SCALE

- STABILIZED SLOPE

CONSTRUCTION SPECIFICATIONS

THE SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIPRAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS. THE ROCK OR GRAVEL USED FOR FILTER OR RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION.

SECTION

THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM.

IF THE RIPRAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY.

THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN

TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON

THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE

- GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE
- FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION
- **RIPRAP OUTLET PROTECTION**

-LEVEL SPREADER

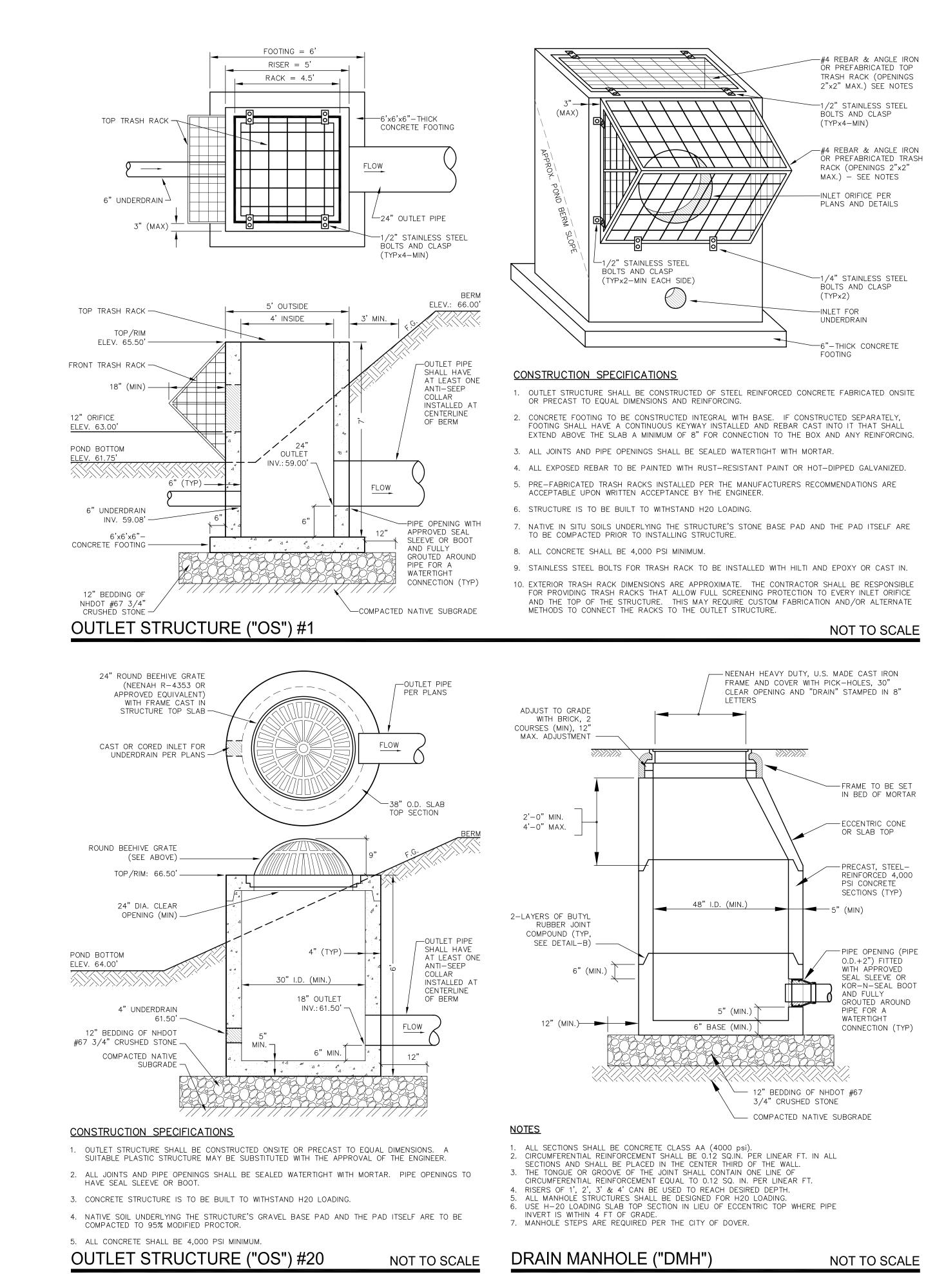
- 0% CHANNEL GRADE

____#4 OF THE STONE SIZES. 4"-6

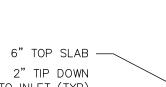
MAINTENANCE

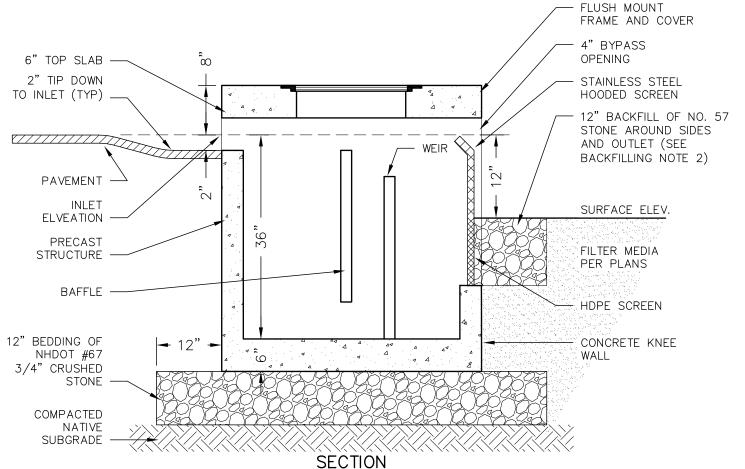
OUTLET PROTECTION APRON.

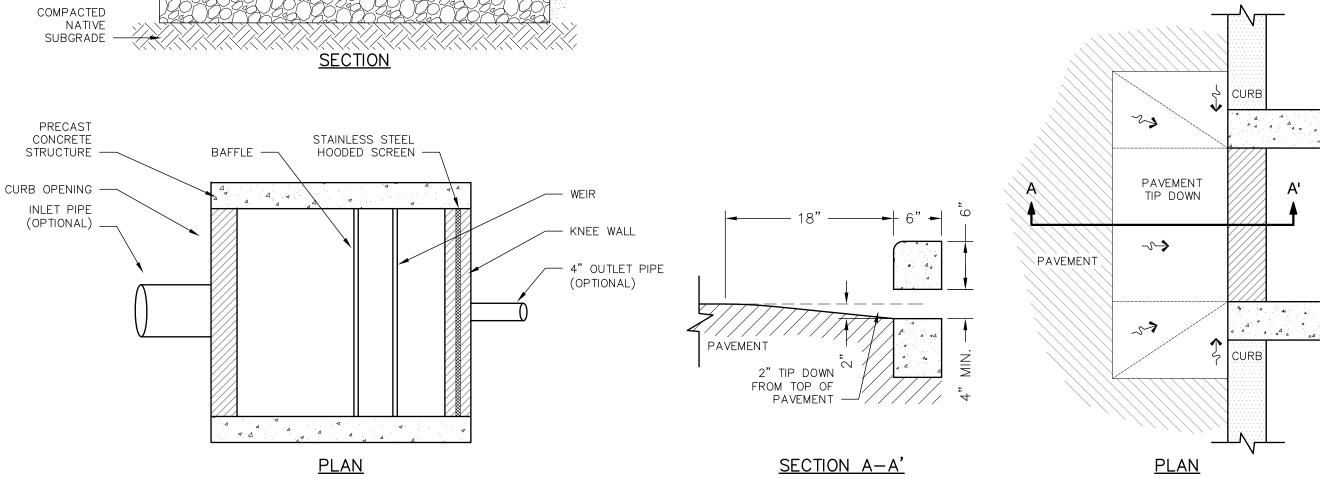
	ALTUS ENGINEERING
2:1 SLOPE (TYP)	133 Court Street (603) 433-2335Portsmouth, NH 038 www.altus-eng.co
P P L=3d F C O O C F	ERIC D. WEINRIEB No. 7634
PLAN_VIEW METAL FLARED END SECTION (FES) OR HEADWALL WHERE SPECIFIED	U 20 24
2 1 12" FINISH GRADE	
10 MIL POLY LINER ONLY WHERE PLUNGE POOL IS INSTALLED IN A BIORETENTION POND/RAINGARDEN SECTION OTES	
. CONSTRUCT PLUNGE POOL TO THE WIDTHS AND LENGTHS SHOWN ON THE PLAN. . THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIPRAP SHALL BE PREPARED TO ACCOUNT FOR THE DEPTH OF RIPRAP.	NOT FOR CONSTRUCTION
. EROSION STONE USED FOR THE PLUNGE POOL SHALL MEET THE FOLLOWING GRADATION: <u>SIZE PERCENT PASSING BY WEIGHT</u> 18"100	REVIEW
12" 90–100 4" 0–15 . GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT	ISSUE DATE: OCTOBER 23, 2024
OF THE EROSION STONE. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 18". . THE EROSION STONE MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.	REVISIONSNO. DESCRIPTIONBY0INITIAL SUBMISSION1REVISED PER COMMENTS1REVISED PER COMMENTS
PLUNGE POOL NOT TO SCALE	
6" COMPACTED LOAM AND SEED (AND EROSION CONTROL	DRAWN BY:EBS
BLANKET WHERE SPECIFIED)	APPROVED BY:EBS
	SCALE:
LIMITS (AS SHOWN ON PLAN)	24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE
	OWNER: RIVERWOODS COMPANY
	AT EXETER
KEY FABRIC 1' (MIN) INTO SOIL NON-WOVEN GEOTEXTILE FABRIC (10, 07, (2))	7 RIVERWOODS DRIVE EXETER, NH 03833
KEY RIPRAP AND	APPLICANT:
FABRIC 2' DEEP (MIN) INTO SOIL	RIVERWOODS COMPANY AT EXETER
COMPACTED NATIVE SUBGRADE OR FILL	7 RIVERWOODS DRIVE EXETER, NH 03833
IOTES	
 CONSTRUCT RIP RAP LINED SLOPE TO THE WIDTHS AND LENGTHS SHOWN ON THE PLAN. THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIPRAP SHALL BE PREPARED TO LINES AND GRADES SHOWN ON THE PLANS. 	PROJECT: RIVERWOODS
3. EROSION STONE USED FOR THE RIP RAP LINED SLOPE SHALL MEET THE FOLLOWING GRADATION: SIZE PERCENT PASSING BY WEIGHT 12" 100 6" 25-50	SUPPORTIVE LIVING HEATH CENTER
4. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE EROSION STONE. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 18 NUMBER	TAX MAP 97 LOT 23 5 WHITE OAK DRIVE
INCHES. 5. THE EROSION STONE MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.	EXETER, NH 03833
RIPRAP STABILIZED SLOPE NOT TO SCALE	
	DETAIL SHEET
	C-13



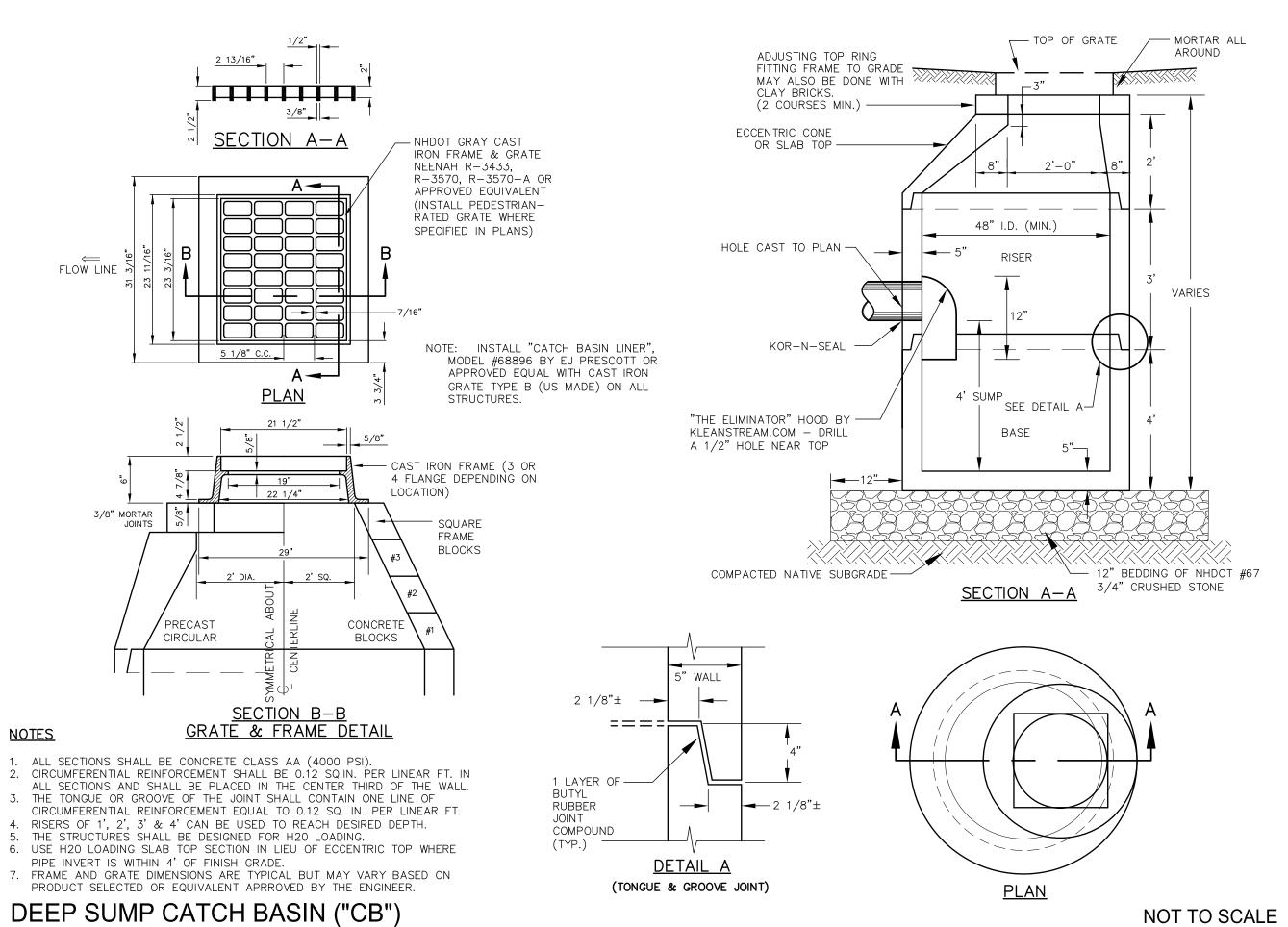
NOT TO SCALE







PRETEX CURB INLET PRETREATMENT DEVICE ("PRETX")



NOTES INSTALLATION -

1. PLACE THE PRECAST SYSTEM TO NECESSARY ELEVATION.

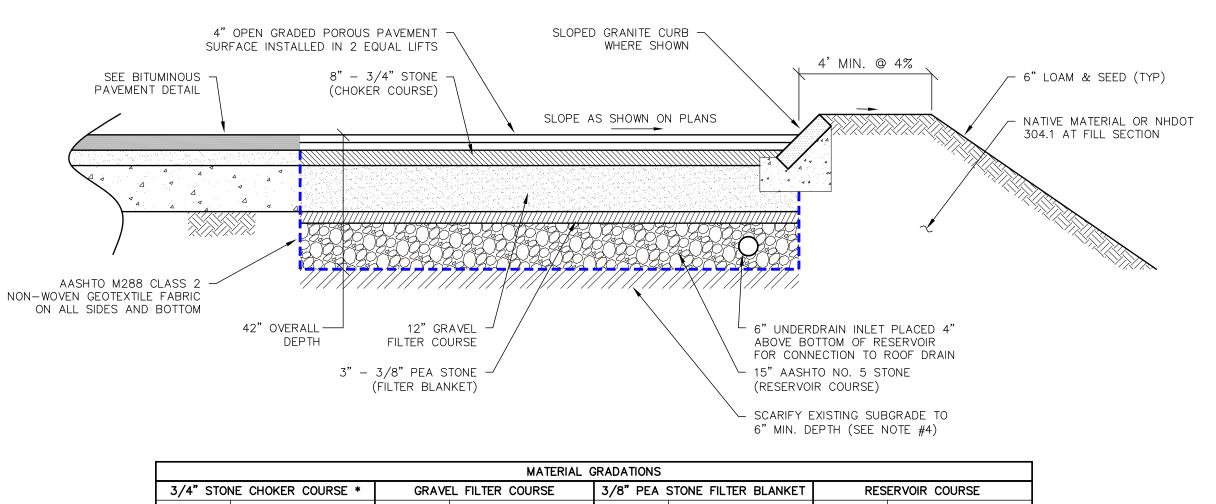
- VERIFY ELEVATIONS FOR ADJACENT CURBS, EDGE OF PAVEMENT, PAVEMENT GRADING FOR INLET GRATE FOR PRETX-DROP, SIDEWALK, PIPE INVERTS FOR INLETS AND OUTLETS, OUTLET INVERT FOR KNEE WALL. 3. VERIFY ELEVATIONS FOR ADJACENT CURBS.
- 4. VERIFY EDGE OF PAVEMENT TIP DOWN PAVEMENT GRADING FOR INLET GRATE.
- 5. VERIFY CURB ELEVATION IN RELATION TO PAVEMENT AND TIP DOWN.
- 6. VERIFY OUTLET INVERT FOR KNEE WALL IN RELATION TO FILTER MEDIA. 7. INSTALL BAFFLES, WEIR, AND SCREENS AS INDICATED ON DRAWINGS.
- 8. VERIFY MAINTENANCE ACCESS THROUGH GRATE OR COVER AND CLEARANCE FOR VACTOR.
- 9. INSTALL TOP OF STRUCTURE LEVEL WITH ADJACENT CURB OR SIDEWALK AS PER MANUFACTURERS SPECIFICATIONS. 10. ENGINEER FIELD VISIT REQUIRED PRIOR TO BACKFILLING.

BACKFILLING -

- 1. BACKFILL WITH APPROVED SOIL AND STONE TO THE DESIGN GRADE AS SPECIFIED IN THE DRAWINGS.
- 2. BACKFILL WITH 12" OF NO. 57 STONE AROUND REAR, LEFT, AND RIGHT SIDES TO LEVEL WITH TOP OF HDPE SCREEN. DO NOT MATCH NO. 57 STONE TO GUSF OR RAINGARDEN UNDERDRAIN STONE. 3. BACKFILL WITH BIORETENTION SOIL MIX BEYOND STONE BACKFILL TO EQUAL ELEVATION OF THE TOP OF HDPE SCREEN. 4. DO NOT BACKFILL SOIL OR STONE AGAINST STAINLESS SCREEN.
- 5. DO NOT COMPACT ADJACENT FILTRATION SYSTEM SOIL WITH MECHANICAL EQUIPMENT.
- STABILIZE AII REMAINING DISTURBED AREAS AND SIDE SLOPES WITH SEEDING, HYDROSEEDING, AND/ OR EROSION CONTROL BLANKETS AS INDICATED ON DRAWINGS.

NOT TO SCALE

ALTUS ENGINEERING
133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com
ERIC D. WEINRIEB No. 7634 CONNAL ENCOMINANT MULTINITUM D. WEINRIEB No. 7634 CCENSED NO. 7634 CONNAL ENCOMINANT D. WEINRIEB NO. 7634
NOT FOR CONSTRUCTION ISSUED FOR:
REVIEW
OCTOBER 23, 2024
REVISIONSNO. DESCRIPTIONBY0INITIAL SUBMISSION1REVISED PER COMMENTSEBS10/23/24
DRAWN BY:EBS APPROVED BY:EBS DRAWING FILE:5015-SITE.dwg
<u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE
OWNER: RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
APPLICANT: RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
PROJECT: RIVERWOODS SUPPORTIVE LIVING HEATH CENTER
TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
DETAIL SHEET



ENGINEER.

BEEN STABILIZED.

UPHILL CONTRIBUTING AREA.

3/4" STONE CHOKER COURSE *		GRAVEL FILTER COURSE		3/8" PEA	RESE		
Sieve size	% Passing by weight	Sieve size	% Passing by weight	Sieve size	% Passing by weight	Sieve size	I
1" 3/4" 3/8" #4 #8	100% 90 - 100% 20 - 55% 0 - 10% 0 - 5%	6" #4 #8	100% 70 - 85% 0 - 6%	1/2" 3/8" #4 #8 #86	100% 85 - 100% 10 - 30% 0 - 10% 0 - 5%	1-1/2" 1" 3/4" 1/2" 3/8"	

STONE SIZE #67 - SECTION 703 NHDOT STANDARD SPECIFICATIONS

NOTES:

- 1. DESIGN OF POROUS PAVEMENT SHALL BE IN ACCORDANCE WITH UNHSC DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS.
- 2. THE CONSTRUCTION OF THE POROUS PAVEMENT SHALL BE IN ACCORDANCE WITH THE UNHSC DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS.
- 3. CONTRACTOR SHALL PROVIDE SUBMITTALS FOR POROUS PAVEMENT AS NOTED IN THE SPECIFICATIONS A MINIMUM OF 14-DAYS PRIOR TO COMMENCING CONSTRUCTION.
- 4. THE ENGINEER SHALL INSPECT SITE PREPARATION AND INSTALLATION OF POROUS PAVEMENT.
- 5. CONTRACTOR SHALL NOTIFY ENGINEER A MINIMUM OF 7 DAYS IN ADVANCE OF WORK SO THAT THE ENGINEER CAN OBSERVE INSTALLATION OF POROUS PAVEMENT CROSS SECTION.
- 6. CONTRACTOR TO REMOVE ANY EXISTING BURIED LAYERS OF LOAM OR UNSUITABLE MATERIAL DURING

THE EXCAVATION OF THE PARKING AREA.

POROUS PAVEMENT CROSS SECTION

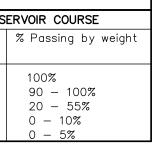
- CONSERVATION SEED MIX APPLIED PER SEED SPECIFICATIONS OVER IN ALL AREAS OUTSIDE FILTER BED FILTER BED AREA - OUTLET STRUCTURE AS SPECIFIED k 9.ek <u>BIO #1</u> <u>BIO #2</u>` PÔNDING AREA 61.75 64.00' 18" SOIL FILTER MEDIA w/1" OF SCREENED LOAM WORKED INTO THE TOP 2" OF MEDIA 60.25' 62.50' 4" 3/8" PEA STONE 59.92' 62.17' 59.08' 61.50' 14-16" 3/4" WASHED \mathcal{O} CRUSHED STONE BEDDING 58.58' 61.00' // // // // // // // // // // // 4" OR 6" PERF. SDR 35 OR CPP UNDERDRAIN - 10 MIL POLY LINER AT BOTTOM AND ALL - COMPACTED NATIVE SUBGRADE (PROVIDE 4" STONE ABOVE AND 6" BELOW PIPE) SIDES TO 6" BELOW MEDIA SURFACE

<u>NOTES</u>

- 1. WHEN CONTRACTOR EXCAVATES BIORETENTION POND AREA TO SUBGRADE, DESIGN ENGINEER SHALL PERFORM SUBSURFACE EVALUATION PRIOR TO THE PLACEMENT OF ANY SELECT MATERIAL OR OTHER
- BACKFILL 2. SOIL FILTER MEDIA SHALL EITHER OPTION A OR OPTION B AT CONTRACTOR'S DISCRETION. 3. DO NOT PLACE BIORETENTION POND INTO SERVICE UNTIL ITS SIDE SLOPES AND CONTRIBUTING AREAS HAVE
- BEEN STABILIZED 4. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES TO THE BIORETENTION POND
- DURING ANY STAGE OF CONSTRUCTION. 5. DO NOT TRAFFIC EXPOSED SURFACES OF BIORETENTION POND WITH CONSTRUCTION EQUIPMENT. IF
- FEASIBLE, PERFORM EXCAVATION ACTIVITIES WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE
- 6. POND BERMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STORMWATER POND BERM DETAIL. MAINTENANCE REQUIREMENTS
- SYSTEMS SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EXCEEDING 2.5 INCHES IN A 24-HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS A WARRANTED BY SUCH INSPECTION.
- PRETREATMENT MEASURES SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND CLEANED OF ACCUMULATED SEDIMENT AS WARRANTED BY INSPECTION, BUT NO LESS THAN ONCE ANNUALLY.
- AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR DRAWDOWN TIME. IF BIORETENTION 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.
- VEGETATION SHOULD BE INSPECTED AT LEAST ANNUALLY, AND MAINTAINED IN HEALTHY CONDITION, INCLUDING, WEED WHACKING, REMOVAL, AND REPLACEMENT OF DEAD OR DISEASED VEGETATION, AND REMOVAL OF INVASIVE SPECIES. BERM AREAS ARE TO BE MOWED TWICE ANNUALLY.

DESIGN REFERENCES

- UNH STORMWATER CENTER
- EPA (1999A) • NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 2, DECEMBER 2008 AS AMENDED. BIORETENTION POND (BIO #'S 1 AND 2)
- Component Material ASTM C-33 concrete sand | 50 - 55% Loamy sand topsoil, with fines as indicated Moderately fine shredded bark or wood fiber mulch, with fines as indicated Moderately fine shredded bark or wood fiber mulch, with fines as indicated Loamy coarse sand



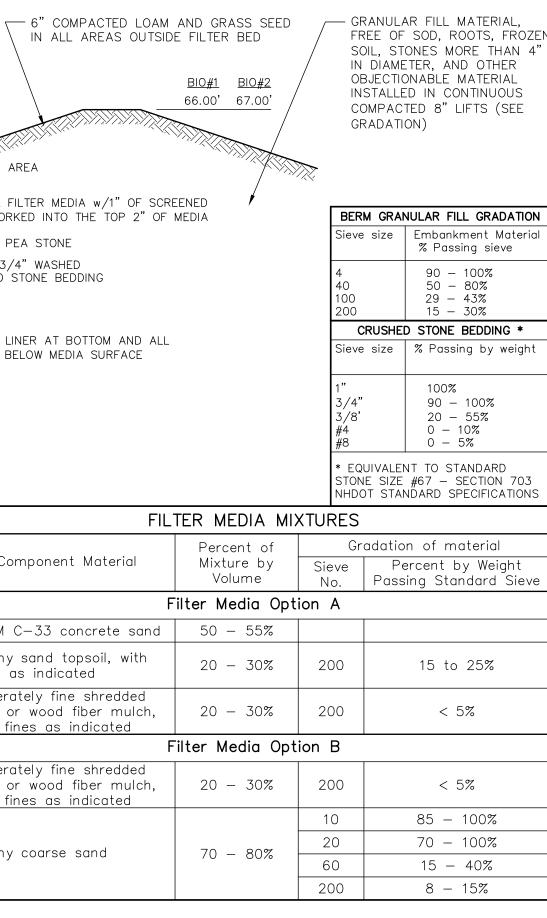
7. PROOF ROLL THE EXISTING SUBGRADE PRIOR TO SCARIFYING ONLY AT AREAS REQUESTED BY THE

8. POROUS PAVEMENT BASE MATERIAL AND ASPHALT SHALL NOT BE INSTALLED UNTIL ALL OTHER SITE WORK AND BUILDING CONSTRUCTION IS SUBSTANTIALLY COMPLETE AND THE SURROUNDING AREA HAS

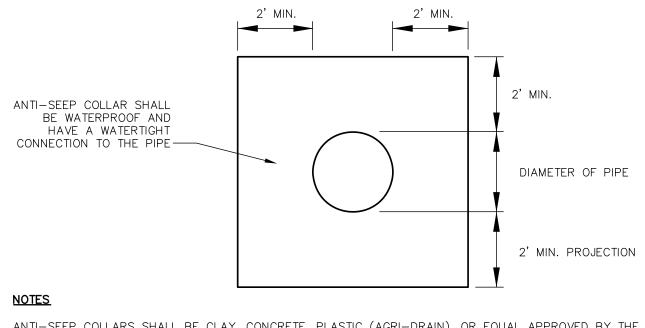
9. THE TOP LAYER (WEARING COURSE) SHALL BE PRE-BLENDED PG 76-28 MODIFIED WITH SBS. THE BASE COURSE SHOULD BE, AT A MINIMUM, PG 64-28 WITH 5 POUNDS OF FIBER PER TON ASPHALT MIX. IF SUFFICIENT STAGING OR USE OF THE BASE COURSE SECTION WILL BE REQUIRED PRIOR TO THE APPLICATION OF THE WEARING COURSE, THE ENGINEER MAY DECIDE TO USE PRE-BLENDED PG 64V-28 MODIFIED WITH SBS ON BOTH COURSES.

10. AFTER INSTALLATION, THE MIXING OR RINSING OF CONCRETE, GYPSUM, PAINT OR ANY OTHER SIMILAR ACTIVITY SHALL BE STRICTLY PROHIBITED ON ANY SECTION OF POROUS PAVEMENT OR IN ANY

NOT TO SCALE

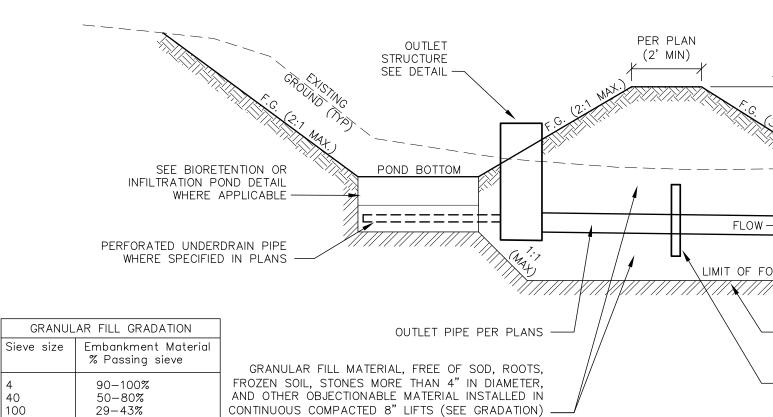






ANTI-SEEP COLLARS SHALL BE CLAY, CONCRETE, PLASTIC (AGRI-DRAIN), OR EQUAL APPROVED BY THE ENGINEER.

ANTI-SEEP COLLAR



<u>Construction</u> Criteria

the permanent fill.

15-30%

1100

- 1. Foundation Preparation -- The foundation shall be cleared of trees, logs, stumps, roots, brush, boulders, sod, spread on the completed embankment and spillways. Foundation surfaces shall be sloped no steeper than 1:1 The surface shall have moisture added and/or it shall be compacted if necessary so that the first layer of fill The cutoff trench and any other required excavations shall be dug to the lines and grades shown on the plans
- Existing stream channels in the foundation area shall be sloped no steeper than 1:1 and deepened and widened objectionable material and to accommodate compaction equipment.
- Foundation areas shall be kept free of standing water when fill is being placed on them.
- 2. Granular Fill Placement The material placed in the fill shall be free of sod, roots, frozen soil, stones more Selected backfill material shall be placed around structures, pipe conduits, and drainage diaphragm at about the

The placing and spreading of fill material shall be started at the lowest point of the foundation and the fill bro obtained. The fill shall be constructed in 8" continuous horizontal layers except where openings or sectionalized embankment in place and the embankment to be placed shall not be steeper than 3 horizontal to 1 vertical. so as to insure a good bond with the new fill.

The distribution and gradation of materials shall be such that no lenses, pockets, streaks, or layers of material necessary to use materials of varying texture and gradation, the more impervious material shall be placed in th materials are specified, the zones shall be placed according to the lines and grades shown on the drawings. drawings or as staked in the field.

- 3. Moisture Control -- The moisture content of the fill material shall be adequate for obtaining the required comp material that is too dry shall have water added and mixed until the requirement is met.
- 4. Compaction -- Construction equipment shall be operated over the areas of each layer of fill to insure that the obtain the required compaction.

Fill material shall be compacted to not less than 95% of AASHTO T99 Method C compaction method. Fill adjacent to structures, pipe conduits, and drainage diaphragm shall be compacted to a density equivalent

- directed power tamper or plate vibrators. Fill adjacent to concrete structures shall not be compacted until the 5. Protection -- A protective cover of vegetation shall be established on all exposed surfaces of the embankment conditions preclude the use of vegetation and protection is needed, non-vegetative means, such as mulches or conditions permit establishment of permanent vegetation.
- <u>Maintenance</u>

Maintenance is necessary if detention/retention basins are to continue to function as originally designed. A local go must be assigned responsibility for maintaining the structures and the basin area. A maintenance plan should be de the procedures.

The following should be considered in formulating a maintenance plan:

- 1. Embankment -- The embankment should be inspected annually to determine if rodent burrows, wet areas, or 2. Vegetation -- The vegetated areas of the structure should be protected from damage by fire, grazing, traffic,
- determined by soil tests. Trees and shrubs should be kept off the embankment and emergency spillway areas. 3. Inlets — Pipe inlets and spillway structures should be inspected annually and after every major storm. Accum
- 4. Outlets -- Pipe outlets should be inspected annually and after every major storm. The condition of the pipes measures should be taken to stabilize and protect the affected area.
- 5. Sediment -- Sediment should be continually checked in the basin. When sediment accumulations reach the predisposed of.
- 6. Safety Inspections -- All permanent impoundments should be inspected by a qualified professional engineer on downstream, then the inspection should be carried out annually.

STORMWATER POND BERM DETAIL

DETAILS 2. CLEANOU 3. CLEANOU

NOT TO SCALE

<u>NOTES</u>

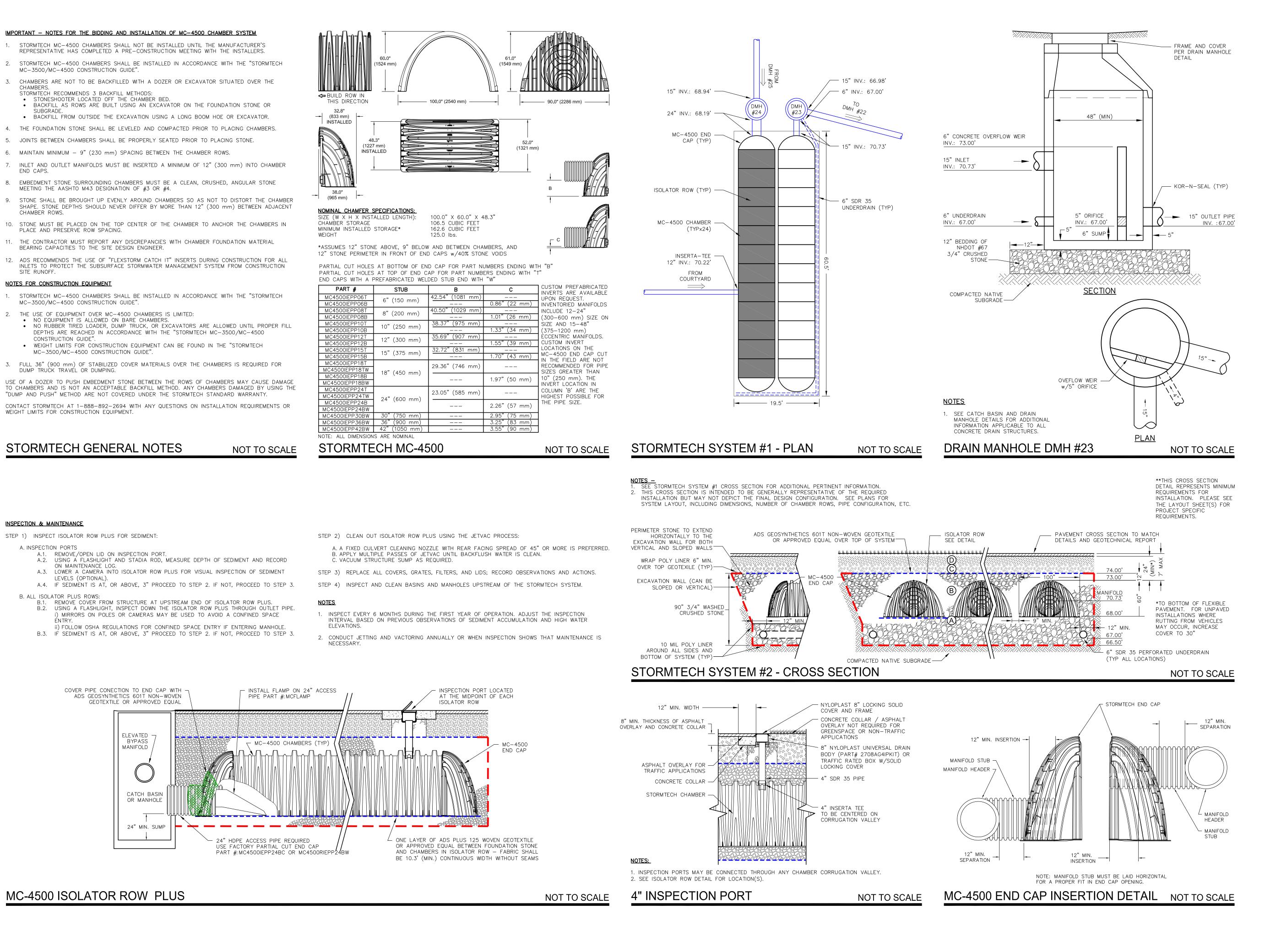
1. THIS DE

BIORE

THREADED PVC CLEANOUT PLUG (ENSURE THREADS ARE KEPT FREE OF CEMENT)	ALTUS ENGINEERING
	133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com
FINISH GRADE	ERIC D. WEINRIEB No. 7634
TAIL IS INTENDED FOR USE WITH BIORETENTION POND UNDERDRAINS ONLY. SEE OTHER FOR CLEANOUTS IN OTHER AREAS.	
UT LOCATIONS ARE MARKED "C.O." ON STORMWATER MANAGEMENT PLANS. UTS MAY NOT BE SET TO FINISH GRADE WITHOUT APPROVAL FROM THE ENGINEER.	10 22 24
TENTION U.D. CLEANOUT ("CO") NOT TO SCALE	
6" COMPACTED LOAM AND GRASS SEED OVER ENTIRE BERM AND POND AREA (UNLESS OTHERWISE SPECIFIED) RIPRAP AT CULVERT OUTLET WHERE SPECIFIED IN PLANS (SEE RIPRAP OUTLET PROTECTION AND PLUNGE POOL DETAILS)	
	NOT FOR CONSTRUCTION
	REVIEW
DF FOUNDATION EXCAVATION	ISSUE DATE:
REMOVE ALL ORGANIC MATERIAL AND SCARIFY GROUND PRIOR TO PLACEMENT OF FILL ANTI-SEEP COLLAR	OCTOBER 23, 2024REVISIONSNO. DESCRIPTIONBY0INITIAL SUBMISSION1REVISED PER COMMENTS1REVISED PER COMMENTS210/23/2
and rubbish. If suitable for reuse, the topsoil and sod shall be stockpiled and The foundation area shall be thoroughly scarified before placement of fill material. can be bonded to the foundation. s or as staked in the field. If they are suitable, excavated materials shall be used in d as necessary to remove all stones, gravel, sand, stumps, roots, and other	DRAWN BY:EBS APPROVED BY:EBS DRAWING FILE:5015-SITE.dwg
than 4 inches in diameter and other objectionable material.	<u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE
e same rate on all sides to prevent damage from unequal loading. ought up in horizontal layers of such thickness that the required compaction can be	<u>OWNER:</u>
d fills are required. In those cases, the slope of the bonding surfaces between the The bonding surface shall be treated the same as that specified for the foundation	RIVERWOODS COMPANY AT EXETER
I differ substantially in texture of gradation from the surrounding material. If it is he center and upstream parts of the fill. If zoned fills of substantially differing The complete work shall conform to the lines, grades, and elevations shown on the	7 RIVERWOODS DRIVE EXETER, NH 03833
npaction. Material that is too wet shall be dried to meet this requirement, and	,
ne required compaction is obtained. Special equipment shall be used if needed to	APPLICANT:
to that of the surrounding fill by means of hand tamping or manually	RIVERWOODS COMPANY AT EXETER
e concrete is strong enough to support the load. It, spillway, and borrow area in accordance with the plans. If soil or climatic	
r gravel, may be used. In some places, temporary vegetation may be used until	7 RIVERWOODS DRIVE EXETER, NH 03833
overnment, a designated group such as a homeowners' association, or an individual developed that outlines the maintenance operations and a schedule for carrying out	PROJECT:
erosion of the fill is taking place.	RIVERWOODS
and dense weed growth. Lime and fertilizer should be applied as necessary as	SUPPORTIVE LIVING HEATH CENTER
nulated debris and sediment should be removed.	TAX MAP 97 LOT 23
s should be noted and repairs made as necessary. If erosion is taking place, then	5 WHITE OAK DRIVE
redetermined design elevation, then the sediment should be removed and properly	EXETER, NH 03833
a periodic basis. If there is potential for significant damage or loss of life	
NOT TO SCALE	
	DETAIL SHEET
	SHEET NUMBER:

C - 15

MC-4500 ISOLATOR ROW PLUS



- i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY. ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE. B.3. IF SEDIMENT IS AT, OR ABOVE, 3" PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE.
- A.4. IF SEDIMENT IS AT, OR ABOVE, 3" PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3. B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS.
- A.3. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL). B. ALL ISOLATOR PLUS ROWS:
- ON MAINTENANCE LOG.
- A.1. REMOVE/OPEN LID ON INSPECTION PORT. A.2. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD
- A. INSPECTION PORTS
- INSPECTION & MAINTENANCE STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT:

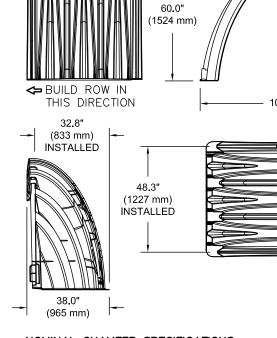
STORMTECH GENERAL NOTES

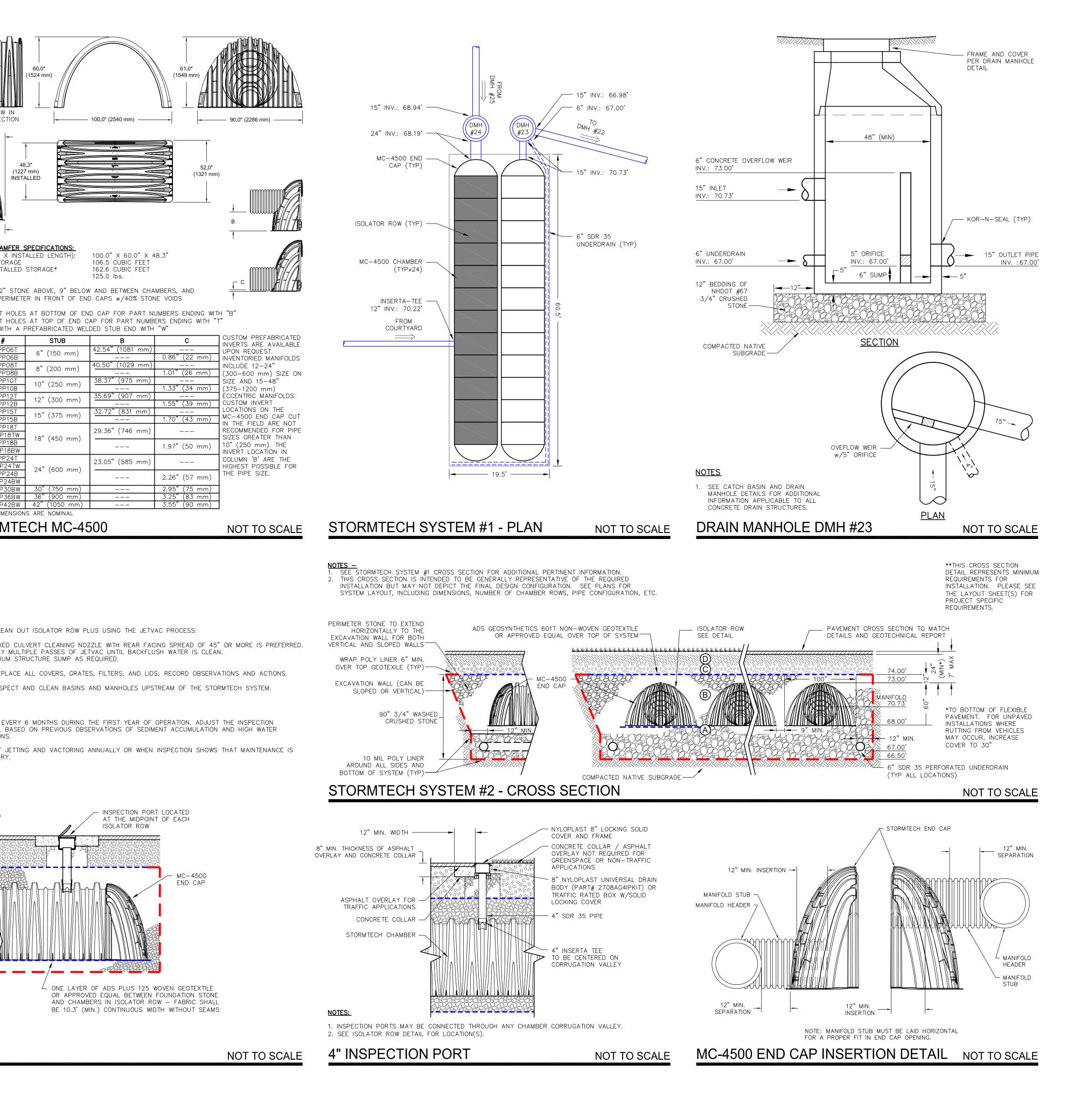
	MC4500IEPP18B	
MAY CAUSE DAMAGE AMAGED BY USING THE WARRANTY.	MC4500IEPP18BW	
	MC4500IEPP24T	
	MC4500IEPP24TW	
N REQUIREMENTS OR	MC4500IEPP24B	
N REQUIREMENTS OR	MC4500IEPP24BW	

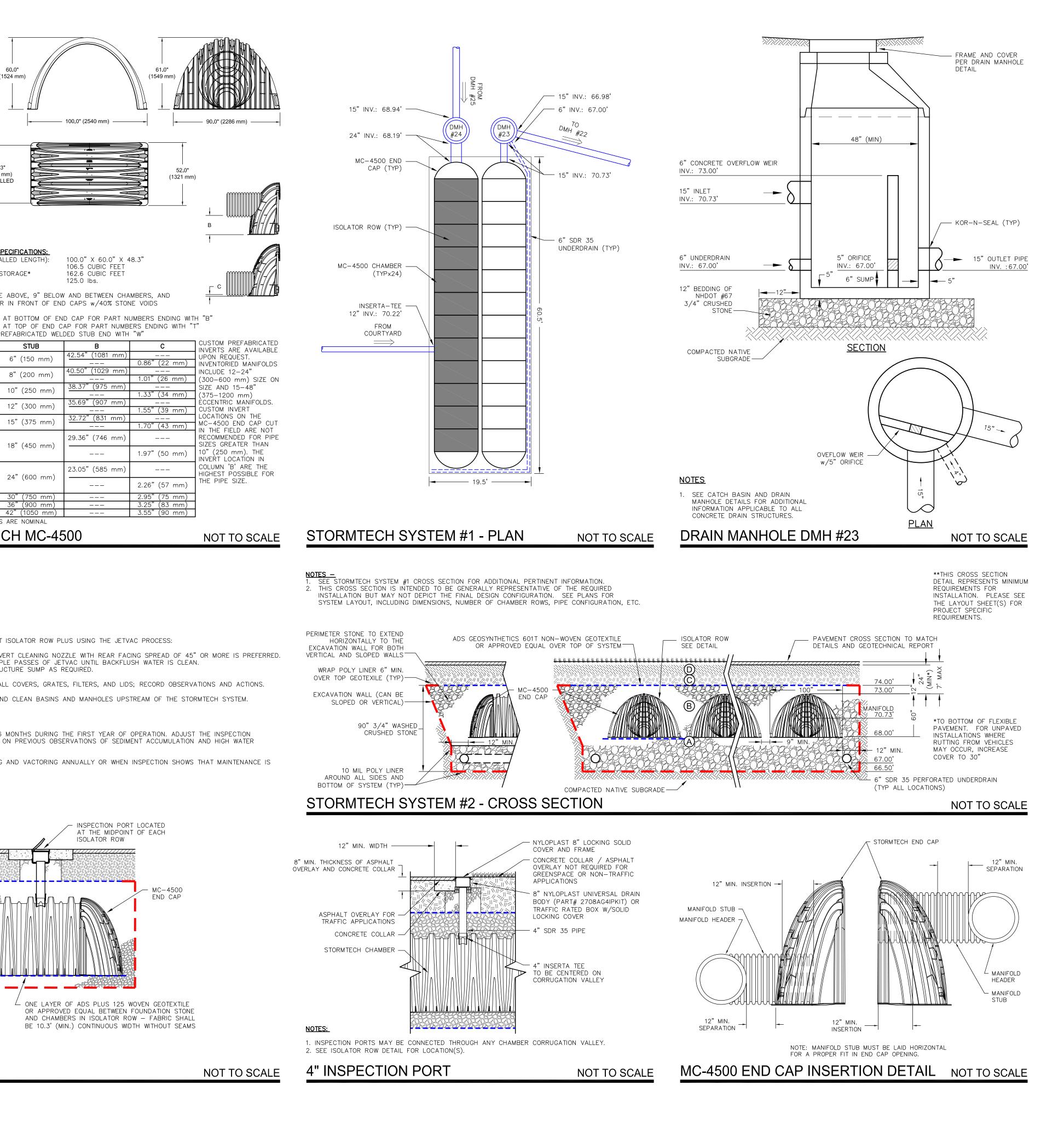
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS

DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE" • WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".

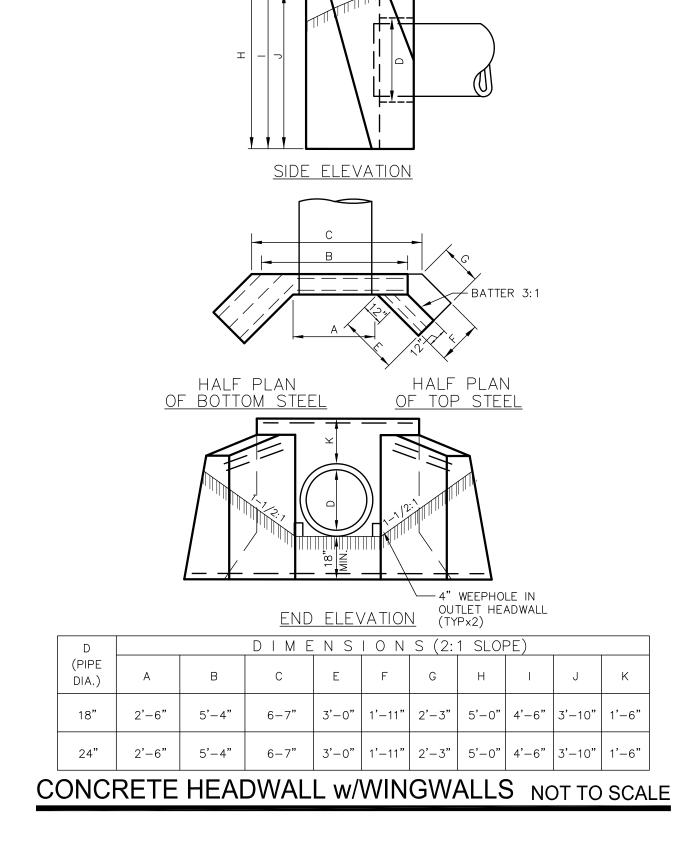
- 2. THE USE OF EQUIPMENT OVER MC-4500 CHAMBERS IS LIMITED: • NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS. • NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL
- SITE RUNOFF. NOTES FOR CONSTRUCTION EQUIPMENT 1. STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH
- 11. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER. 12. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL
- SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS. 10. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- 7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS. 8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- 6. MAINTAIN MINIMUM 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS. 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- SUBGRADE. • BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- STORMTECH RECOMMENDS 3 BACKFILL METHODS: • STONESHOOTER LOCATED OFF THE CHAMBER BED. • BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR
- MC-3500/MC-4500 CONSTRUCTION GUIDE". 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS.
- 2. STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH
- IMPORTANT NOTES FOR THE BIDDING AND INSTALLATION OF MC-4500 CHAMBER SYSTEM





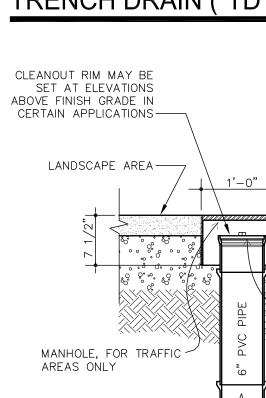


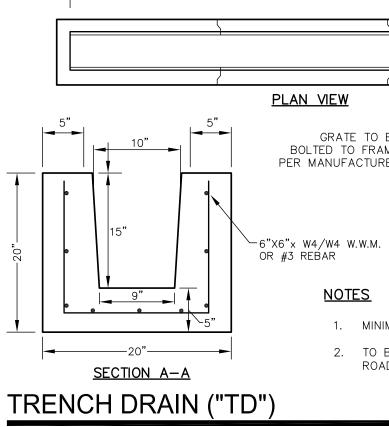
ALTUS ENGINEERING
133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com
POR NEW AQUINING
NOT FOR CONSTRUCTION
REVIEW
ISSUE DATE: OCTOBER 23, 2024
REVISIONSNO. DESCRIPTIONBY0INITIAL SUBMISSION1REVISED PER COMMENTSEBS10/23/24
DRAWN BY:EBS
DRAWING FILE: 5015-SITE.dwg
<u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE
OWNER: RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
APPLICANT: RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
PROJECT: RIVERWOODS
SUPPORTIVE LIVING HEATH CENTER
TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
<u>TITLE:</u>
<u>SHEET NUMBER:</u> C-16



STORMWATER CLEANOUT ("CO")

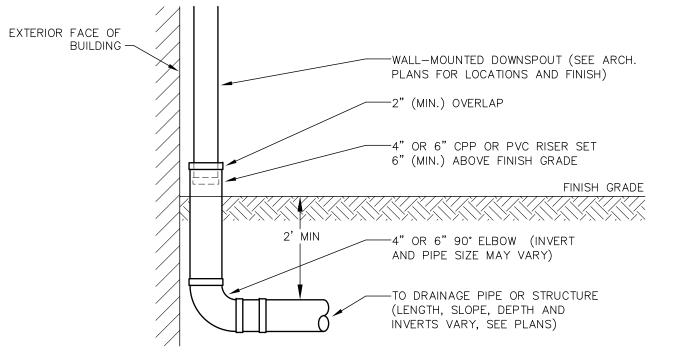
<u>NOTES</u> 1. THIS DETAIL IS NOT INTENDED FOR USE WITH BIORETENTION POND UNDERDRAINS.





EXTERIOR ROOF DRAIN CONNECTION NOT TO SCALE

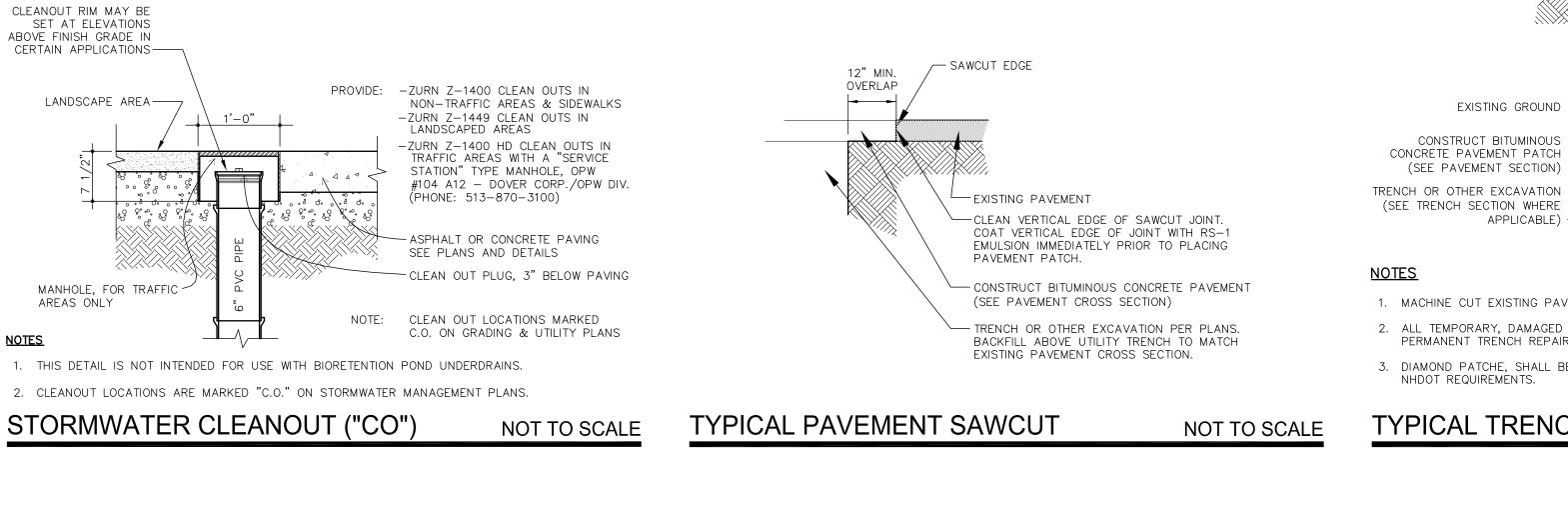
 $\overrightarrow{}$



ROUND SLOPE -12"

YARD DRAIN ("YD")

- SHOWN ON THE DRAWINGS. 6. FOR INSTALLATION IN PEDESTRIAN AND LANDSCAPE AREAS ONLY.
- APPROVED EQUAL. 5. THE CONTRACTOR SHALL INSTALL THE DRAIN BASIN PER THE MANUFACTURER'S RECOMMENDATIONS AND AS
- AND PVC SEWER. 4. INLINE DRAIN TO BE PVC, DIAMETER AS SPECIFIED AND AS MANUFACTURED BY ADS OR
- PLAN AND DETAILS. 3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE, N-12HP
- A536 GRADE 70-50-05. DRAIN BASIN TO BE CUSTOM 2. MANUFACTURED ACCORDING TO
- NOTES: 1. FRAMES AND GRATES SHALL BE DUCTILE IRON PER ASTM



EXISTING GRAVEL BEYOND TRENCH SHALL BE LEFT

EXCAVATED UTILITY TRENCH

- PEDESTRIAN GRATE (MAY BE ROUND OR SQUARE, 15"MIN) - ADS DRAIN BASIN OR EQUAL, SIZE INLET BASED ON PIPE PIPES(S) AS CONFIGURATION (15" DIA. MIN.) - OUTLET PIPE AS SPECIFIED ▶ 12" MIN. - 12" BEDDING OF NHDOT #67 3/4" CRUSHED STONE - COMPACTED NATIVE SUBGRADE NOT TO SCALE

> • A 📥

°00000000000000°

ไทกกกกกกกกกกกกกก

AS REQUIRED CAST IRON GRATE

1. MINIMUM 4,000 PSI CONCRETE @ 28 DAYS

2. TO BE SUPPLIED BY AJ FOSS, 100 COCHECO

ROAD, FARMINGTON, NH, OR APPROVED EQUAL

NOT TO SCALE

A ◄

OUTLET PIPE IN PRE-CAST KNOCKOUT

(grout openings) \Box

FLOW

AS REQUIRED – SEE SITE PLANS

GRATE TO BE BOLTED TO FRAME

PER MANUFACTURER

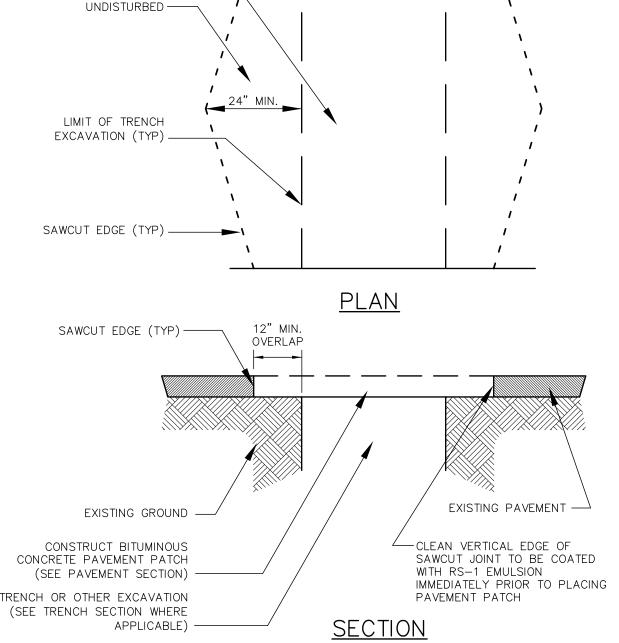
<u>NOTES</u>

TRE	NCH	PAT	CH	

NOT TO SCALE

3. DIAMOND PATCHE, SHALL BE REQUIRED FOR ALL TRENCHES CROSSING ROADWAY AND SHALL MEET

1. MACHINE CUT EXISTING PAVEMENT. 2. ALL TEMPORARY, DAMAGED OR DEFECTIVE PAVEMENT SHALL BE REMOVED PRIOR TO PLACEMENT OF PERMANENT TRENCH REPAIRS.



12"(MIN)

ERIC D. WEINRIEB No. 7634 CENSED VOID CONSED VIENNIEB NO. 7634 CENSED VIENNIEB NO. 7634 CONSED VIENNIEB NO. 7634 CONSED VIENNIEB VIENNIEB NO. 7634 CONSED VIENNIE VIENNIE VIENNIE VIENNIEB VIENNIE VIENNIE VIENNIEB VIENNIE VIENNIEB VIENNIE VIENN
NOT FOR CONSTRUCTION
ISSUED FOR: REVIEW
ISSUE DATE:
OCTOBER 23, 2024 REVISIONS
NO. DESCRIPTIONBYDATE0INITIAL SUBMISSIONEBS09/10/241REVISED PER COMMENTSEBS10/23/24
DRAWN BY:EBS
APPROVED BY: EBS DRAWING FILE: 5015-SITE.dwg
SCALE:
24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE
OWNER:
RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE
EXETER, NH 03833
APPLICANT:
RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE
EXETER, NH 03833
SUPPORTIVE LIVING HEATH CENTER
TAX MAP 97 LOT 23
5 WHITE OAK DRIVE EXETER, NH 03833
<u>TITLE:</u>
DETAIL SHEET
SHEET NUMBER:

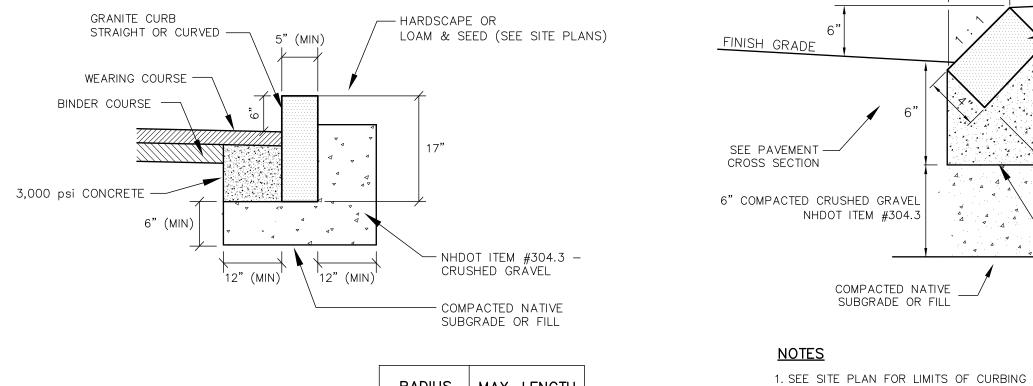
ENGINEERING

133 Court Street (603) 433-2335

Portsmouth, NH 03801

www.altus-eng.com

C-17



<u>NOTES:</u>

- 1. SEE PLANS FOR CURB LOCATION. 2. ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
- 3. MINIMUM LENGTH OF CURB STONES = 3'4. MAXIMUM LENGTH OF CURB STONES = 10'
- 5. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES - SEE CHART.
- 6. CURB ENDS TO ROUNDED AND BATTERED FACES TO BE CUT WHEN CALLED FOR ON THE PLANS.

RADIUS	MAX. LENGTH
21'	3'
22'-28'	4'
29'-35'	5'
36'-42'	6'
43'-49'	7'
50'-56'	8'
57'-60'	9'
OVER 60'	10'

6" COMPACTED CRUSHED GRAVEL NHDOT ITEM #304.3

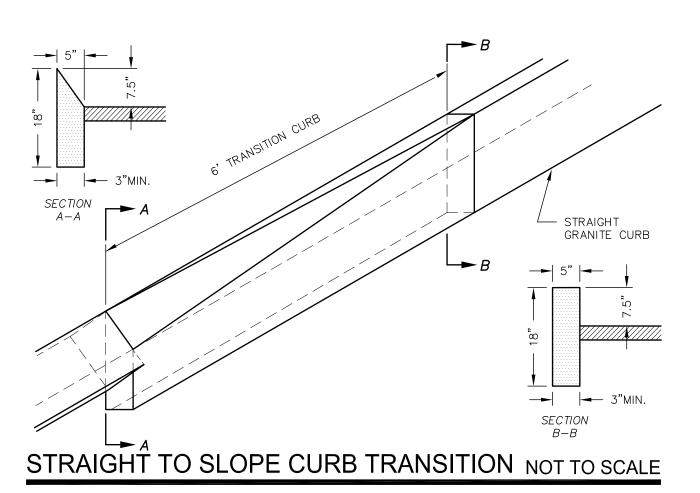
- SEE CHART

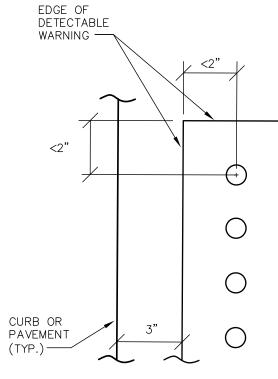
RADIUS FOR STO
WITH SQUARE JO
16'-28' 29'-41'
29 – 41 42'–55'
56'-68'
69'-82'
83'-96'
97'—110'
OVER 110'

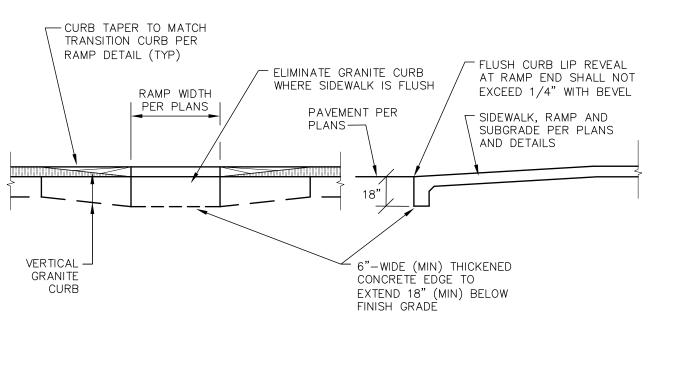
VERTICAL GRANITE CURB

NOT TO SCALE

SLOPED GRANITE CURB





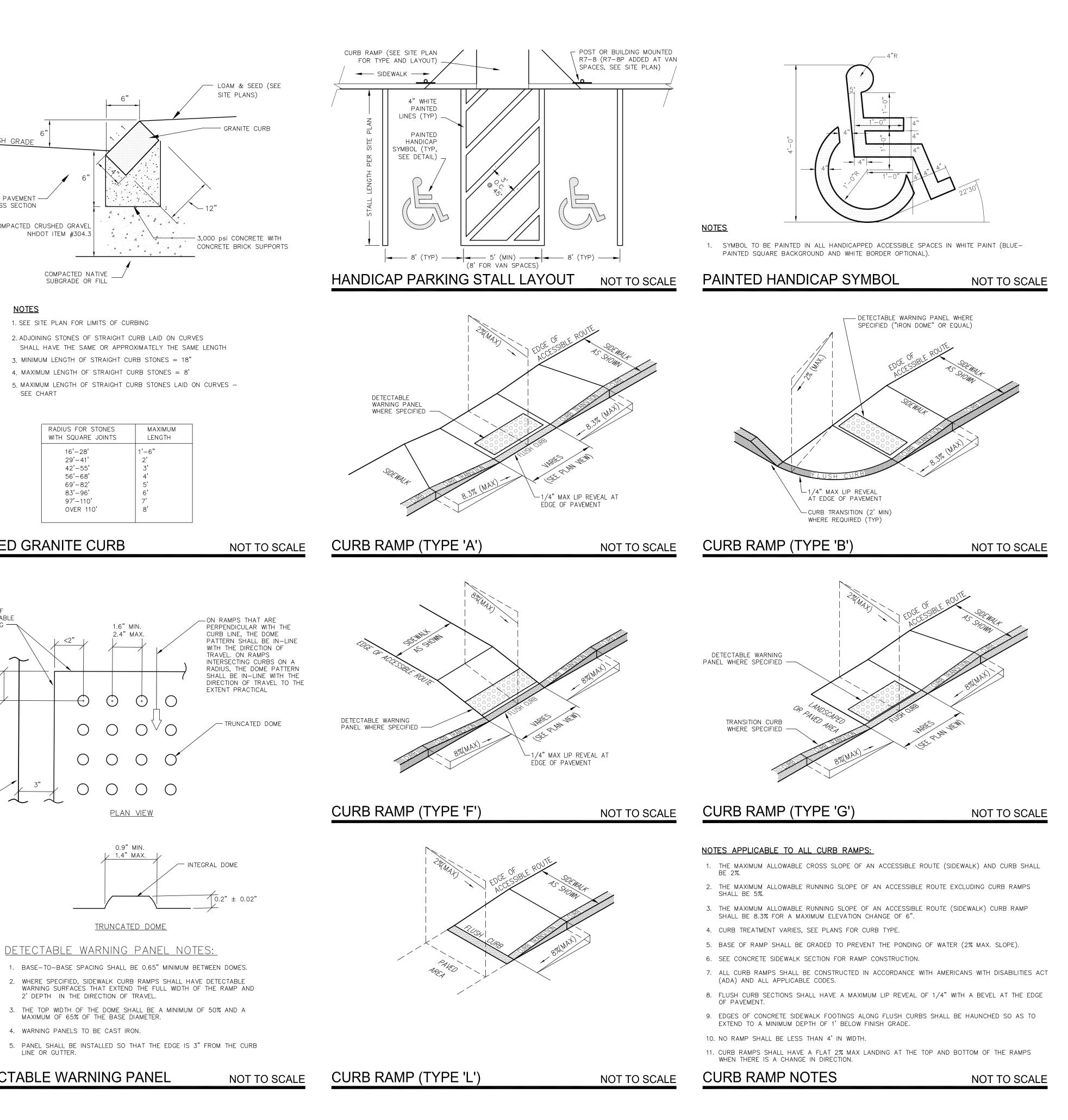


FLUSH CURB AT RAMP DETAIL

NOT TO SCALE

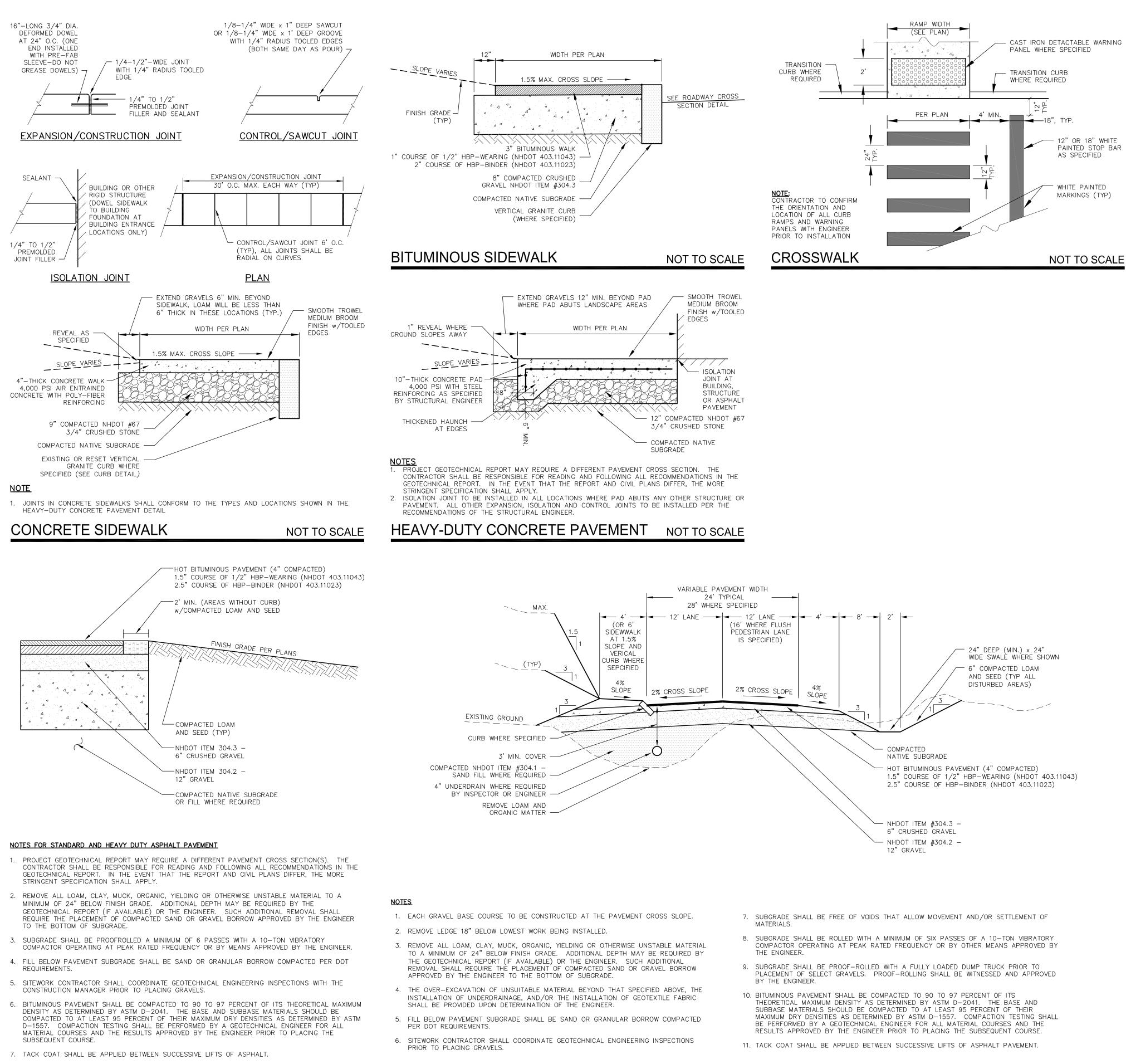
DETECTABLE WARNING PANEL

LINE OR GUTTER.

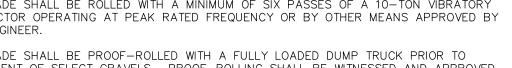


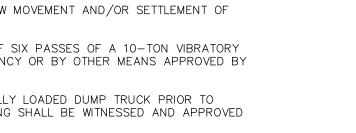
ENGINEERING
133 Court Street Portsmouth, NH 03801
(603) 433-2335 www.altus-eng.com
ANHIMMAN AND AND AND AND AND AND AND AND AND A
ERIC ERIC
WEINRIEB
No. 7634
SIONAL ENGININ
A A A
10/20/24
ISSUED FOR:
ISSUE DATE:
OCTOBER 23, 2024
REVISIONS NO. DESCRIPTION BY DATE
0 INITIAL SUBMISSION EBS 09/10/24 1 REVISED PER COMMENTS EBS 10/23/24
DRAWN BY:EBS
APPROVED BY:EBS
APPROVED BY: EBS DRAWING FILE: 5015-SITE.dwg
DRAWING FILE: 5015-SITE.dwg
DRAWING FILE: 5015-SITE.dwg SCALE:
DRAWING FILE: 5015-SITE.dwg SCALE: 24" x 36" - 1" = NOT TO SCLAE
DRAWING FILE: $5015-SITE.dwg$ SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY
DRAWING FILE: $5015-SITE.dwg$ SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER:
DRAWING FILE: $5015-SITE.dwg$ SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY
DRAWING FILE: $5015-SITE.dwg$ SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER
DRAWING FILE: 5015-SITE.dwg SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE
DRAWING FILE: 5015-SITE.dwg SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833
DRAWING FILE: 5015-SITE.dwg SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT:
DRAWING FILE: 5015-SITE.dwg SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY
DRAWING FILE: 5015-SITE.dwg SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT:
DRAWING FILE: <u>5015-SITE.dwg</u> <u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE <u>OWNER:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 <u>APPLICANT:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE
DRAWING FILE: <u>5015-SITE.dwg</u> <u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE <u>OWNER:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 <u>APPLICANT:</u> RIVERWOODS COMPANY AT EXETER
DRAWING FILE: <u>5015-SITE.dwg</u> <u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE <u>OWNER:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 <u>APPLICANT:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE
DRAWING FILE: <u>5015-SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833
DRAWING FILE: <u>5015–SITE.dwg</u> <u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE <u>OWNER:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 <u>APPLICANT:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 <u>PROJECT:</u>
DRAWING FILE: <u>5015-SITE.dwg</u> <u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE <u>OWNER:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 <u>APPLICANT:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 <u>PROJECT:</u> RIVERWOODS
DRAWING FILE: <u>5015–SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833
DRAWING FILE: <u>5015-SITE.dwg</u> <u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE <u>OWNER:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 <u>APPLICANT:</u> RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 <u>PROJECT:</u> RIVERWOODS
DRAWING FILE: <u>5015-SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833
DRAWING FILE: <u>5015–SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833
DRAWING FILE: <u>5015–SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS LIVING HEATH CENTER TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
DRAWING FILE: <u>5015–SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833
DRAWING FILE: <u>5015–SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS LIVING HEATH CENTER TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
DRAWING FILE: <u>5015–SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS LIVING HEATH CENTER TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
DRAWING FILE: <u>5015–SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833 IITLE:
DRAWING FILE: <u>5015-SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 TITLE: DETAIL SHEET
DRAWING FILE: <u>5015–SITE.dwg</u> SCALE: 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833 IITLE:

STANDARD DUTY ASPHALT PAVEMENT NOT TO SCALE

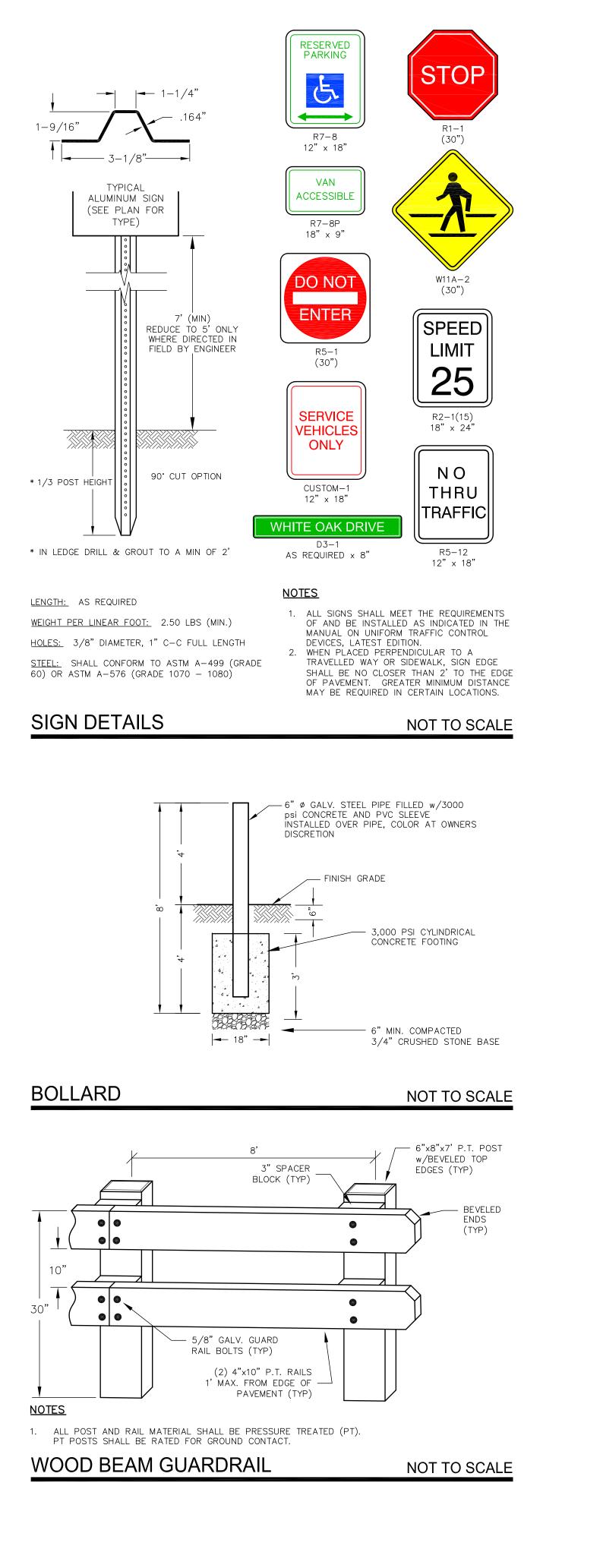


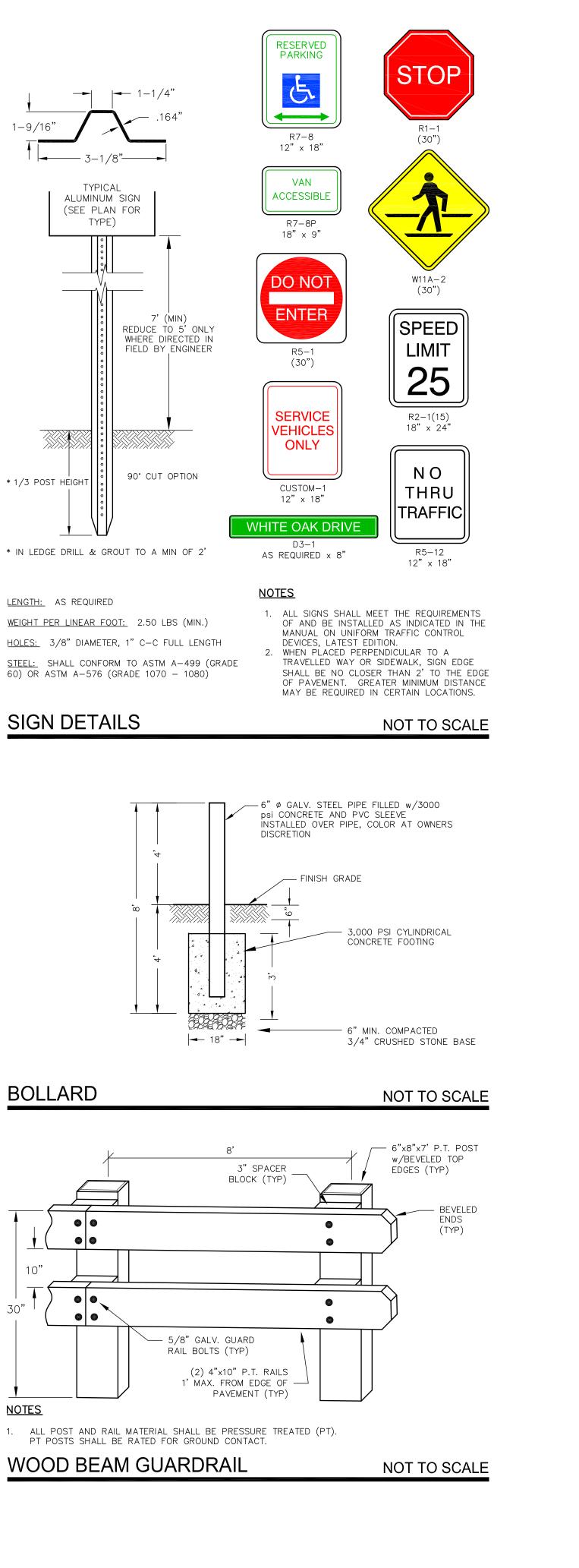
TYPICAL ROADWAY CROSS SECTION

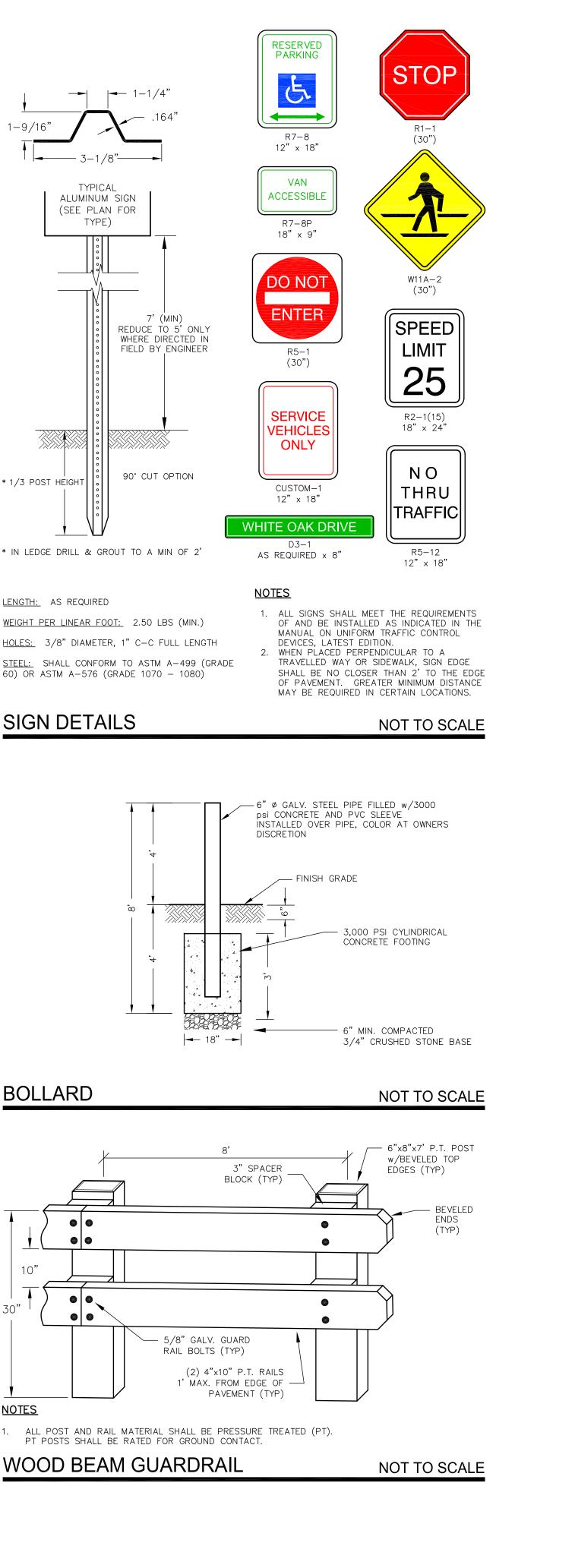




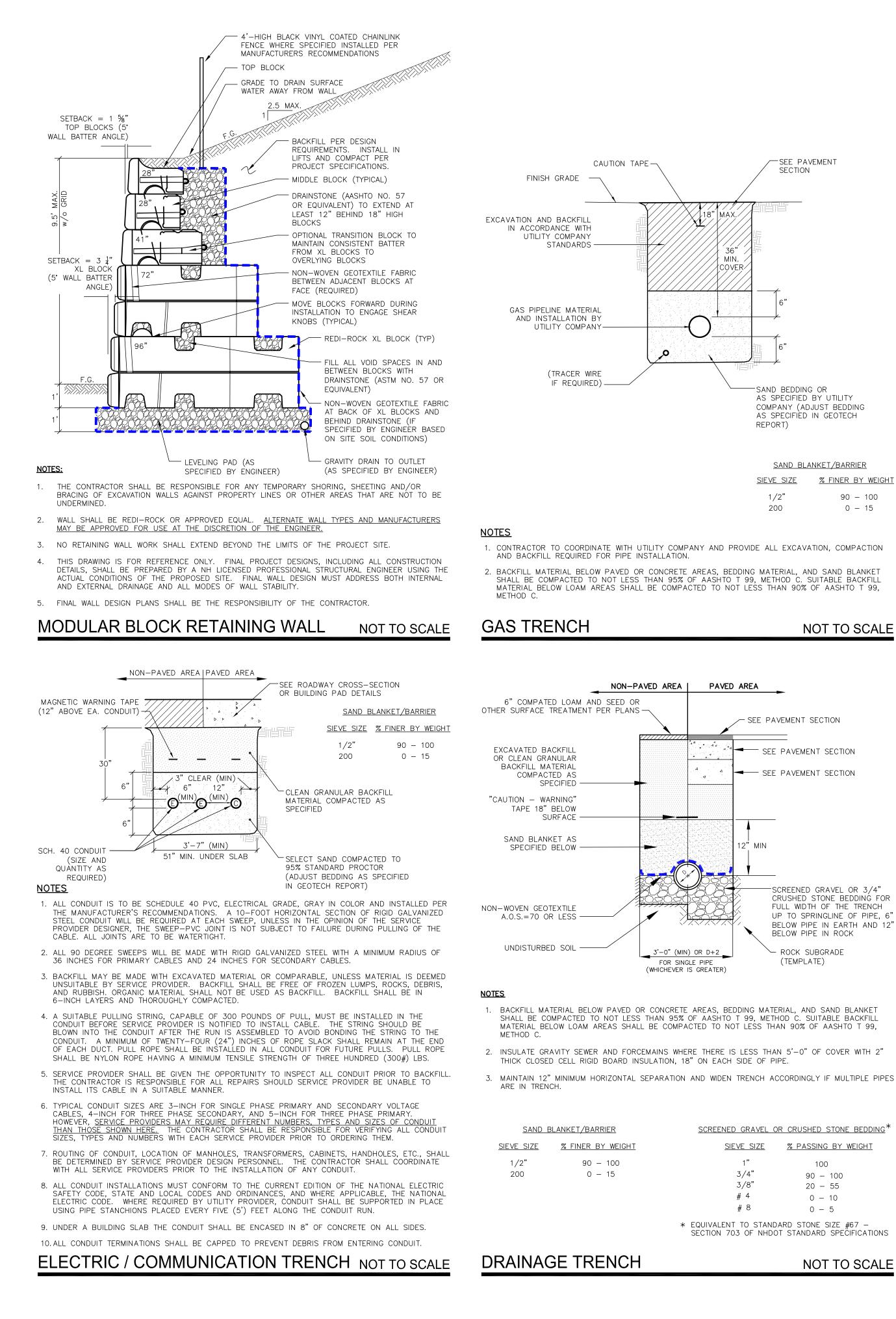
NOT TO SCALE

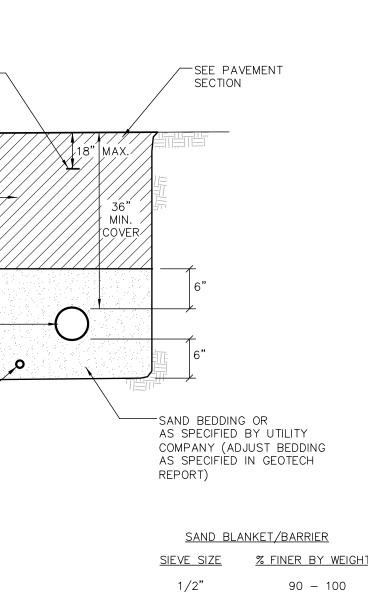


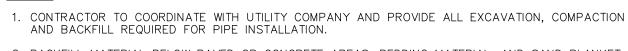




ENGINEERING
133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com
CONTRACTOR NEW Advantage
ISSUED FOR: REVIEW
ISSUE DATE: OCTOBER 23, 2024
REVISIONS NO. DESCRIPTION BY DATE 0 INITIAL SUBMISSION EBS 09/10/24 1 REVISED PER COMMENTS EBS 10/23/24
DRAWN BY: EBS
DRAWN BY:EBS APPROVED BY:EBS DRAWING FILE:5015-SITE.dwg
<u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE
OWNER: RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
APPLICANT:
RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
RIVERWOODS SUPPORTIVE LIVING HEATH CENTER
TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
<u>TITLE:</u>
DETAIL SHEET
<u>C-19</u>





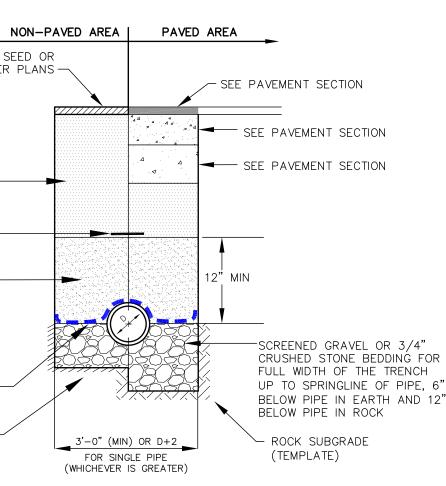


200

2. BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99,

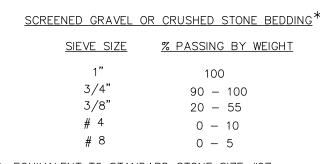
NOT TO SCALE

0 — 15



1. BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99,

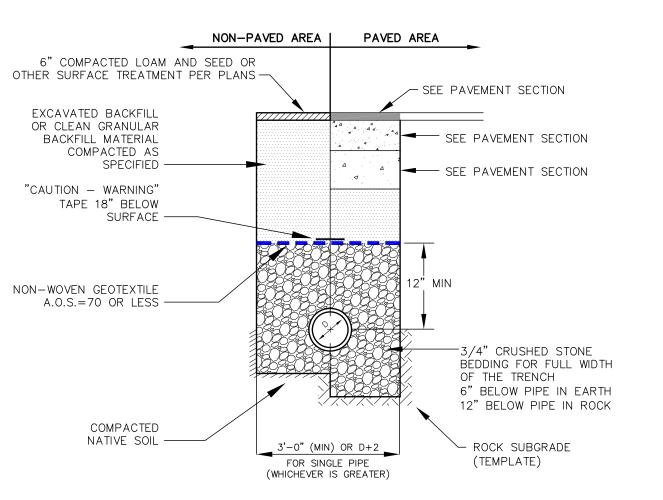
2. INSULATE GRAVITY SEWER AND FORCEMAINS WHERE THERE IS LESS THAN 5'-O" OF COVER WITH 2"



* EQUIVALENT TO STANDARD STONE SIZE #67 -SECTION 703 OF NHDOT STANDARD SPECIFICATIONS

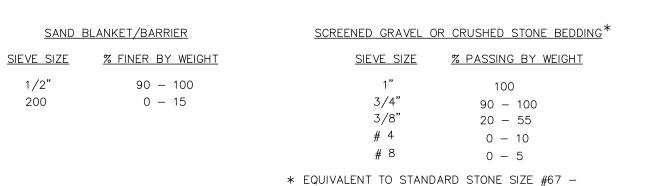
NOT TO SCALE

<u>NOTES</u>



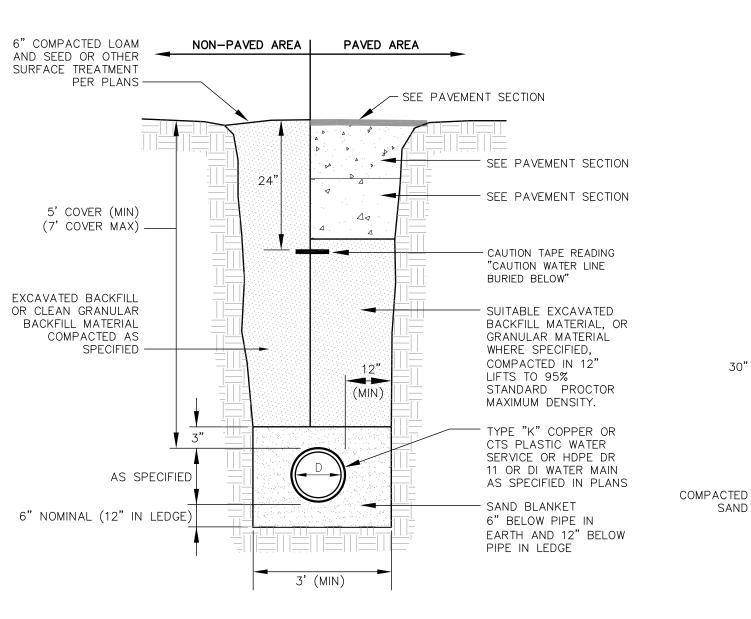
<u>NOTES</u>

- 1. BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C
- 2. INSULATE GRAVITY SEWER AND FORCEMAINS WHERE THERE IS LESS THAN 5'-0" OF COVER WITH 2" THICK CLOSED CELL RIGID BOARD INSULATION, 18" ON EACH SIDE OF PIPE.
- 3. MAINTAIN 12" MINIMUM HORIZONTAL SEPARATION AND WIDEN TRENCH ACCORDINGLY IF MULTIPLE PIPES ARE IN TRENCH.



SECTION 703 OF NHDOT STANDARD SPECIFICATIONS

SEWER TRENCH



SAND BLANKET/BARRIER <u>SIEVE SIZE</u> <u>% FINER BY WEIGHT</u> 1/2" 90 - 100 0 — 15 200

1. BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C.

2. ALL TRENCHING AND BACKFILL SHALL CONFORM WITH THE STANDARDS OF EXETER DPW.

WATER MAIN TRENCH

NOT TO SCALE

<u>NOTES</u>

SAND ----

STANDARD TRENCH NOTES

BE USED.

1. ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE: BACKFILL AS STATED IN THE TECHNICAL SPECIFICATIONS OR AS SHOWN ON THE DRAWING.

2. BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING THE GRADATION SHOWN IN THE TRENCH DETAIL. WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL OR CRUSHED STONE 1-1/2 INCH TO 1/2 INCH SHALL

3. SAND BLANKET: CLEAN SAND FREE FROM ORGANIC MATTER MEETING THE GRADATION SHOWN IN THE TRENCH DETAIL. BLANKET MAY BE REPLACED WITH BEDDING MATERIAL FOR CAST-IRON, DUCTILE IRON, AND REINFORCED CONCRETE PIPE PROVIDED THAT NO STONE LARGER THAN 2" IS IN CONTACT WITH THE PIPE AND THE GEOTEXTILE IS RELOCATED ACCORDINGLY.

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 ONLY IF SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER FOR MAINTENANCE AND POSSIBLE RECONSTRUCTION WILL BE PRESERVED.

5. BASE COURSE AND PAVEMENT 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.

6. SHEETING, 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, BUT NOT LESS THAT 1 FOOT ABOVE THE TOP OF THE PIPE.

7. W = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES. FOR PIPES GREATER THAN 15 INCHES IN NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE OUTSIDE DIAMETER (O.D.) ALSO, W SHALL BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.

8. FOR CROSS COUNTRY CONSTRUCTION, BACKFILL, FILL AND/OR LOAM SHALL BE MOUNDED TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

9. CONCRETE FOR ENCASEMENT SHALL CONFORM TO THE NEW HAMPSHIRE DOT STANDARD SPECIFICATION REQUIREMENTS FOR CLASS A (3000#) CONCRETE AS FOLLOWS: CEMENT: 6.0 BAGS PER CUBIC YARD

WATER: 5.75 GALLONS PER BAG CEMENT MAXIMUM SIZE OF AGGREGATE: 1 INCH CONCRETE ENCASEMENT IS NOT ALLOWED FOR PVC PIPE.

10. CONCRETE FULL ENCASEMENT: 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. NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES DESIGN STANDARDS REQUIRE TEN FEET

(10') SEPARATION BETWEEN WATER AND SEWER. REFER TO CITY STANDARD SPECIFICATIONS FOR METHODS OF PROTECTION IN AREAS THAT CANNOT MEET THESE REQUIREMENTS.

12. THE CONTRACTOR SHALL INSTALL TRENCH DAMS IN ACCORDANCE WITH NHDES REGULATIONS. 13. SEWER TRENCHES SHALL BE CONSTRUCRTED IN ACCORANCE WITH NHDES STANDARDS OF DESIGN AND CONSTRUCTION FOR SEWAGE AND WASTEWATER FACILITES, LATEST EDITION.

NOT TO SCALE

	4	– SEE PAVEMENT CROSS SI INSTALLATION IN NON-LA	
30" MIN.	12"	 MAGNETIC WARNING TAPE (6" ABOVE CONDUIT) PVC SCH 40 ELECTRIC C STRING SHALL MEET THE BUILDING CODE AND NAT COORDINATE w/UTILITY E SIZES. ASSUME 2"Ø FOF 	ONDUIT WITH PULI REQUIREMENTS C IONAL ELEC. CODE LECTRICIAN FOR
		<u>SAND BLA</u> <u>SIEVE SIZE</u>	. <u>nket/barrier</u> <u>% finer by we</u>

40 ELECTRIC CONDUIT WITH PULL SHALL MEET THE REQUIREMENTS OF CODE AND NATIONAL ELEC. CODE. ATE w/UTILITY ELECTRICIAN FOR ASSUME 2"Ø FOR BIDDING PURPOSES.

> SAND BLANKET/BARRIER <u>SIEVE SIZE</u> <u>% FINER BY WEIGHT</u> 1/2" 90 - 100 200 0 - 15

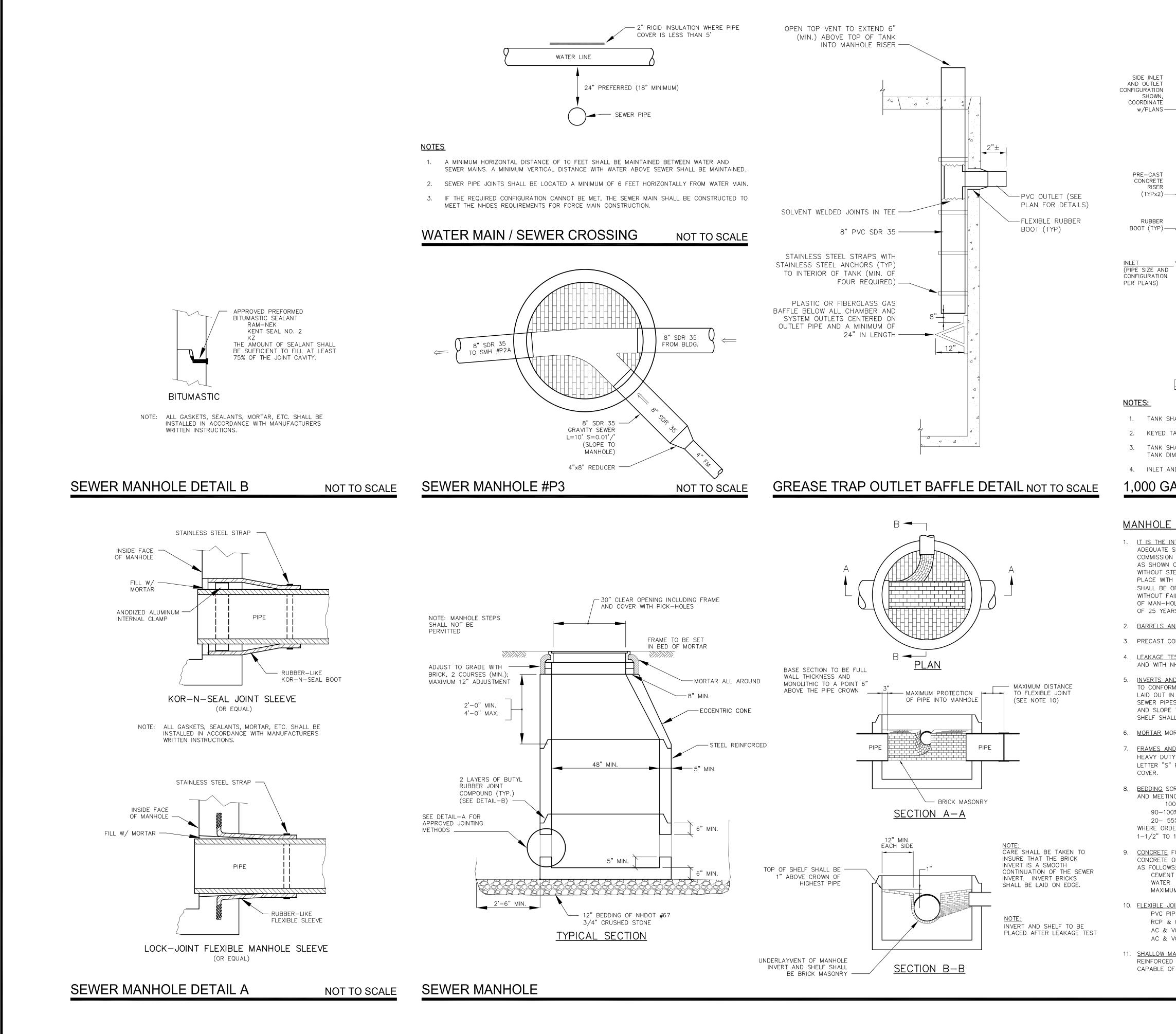
1. CONTRACTOR TO COORDINATE WITH MEP PLANS AND ELECTRICIAN AND PROVIDE ALL EXCAVATION, COMPACTION AND BACKFILL REQUIRED FOR CONDUIT INSTALLATION. 2. BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET

SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL ALL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO 99, METHOD C.

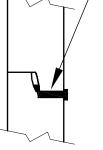
LIGHTING TRENCH SECTION

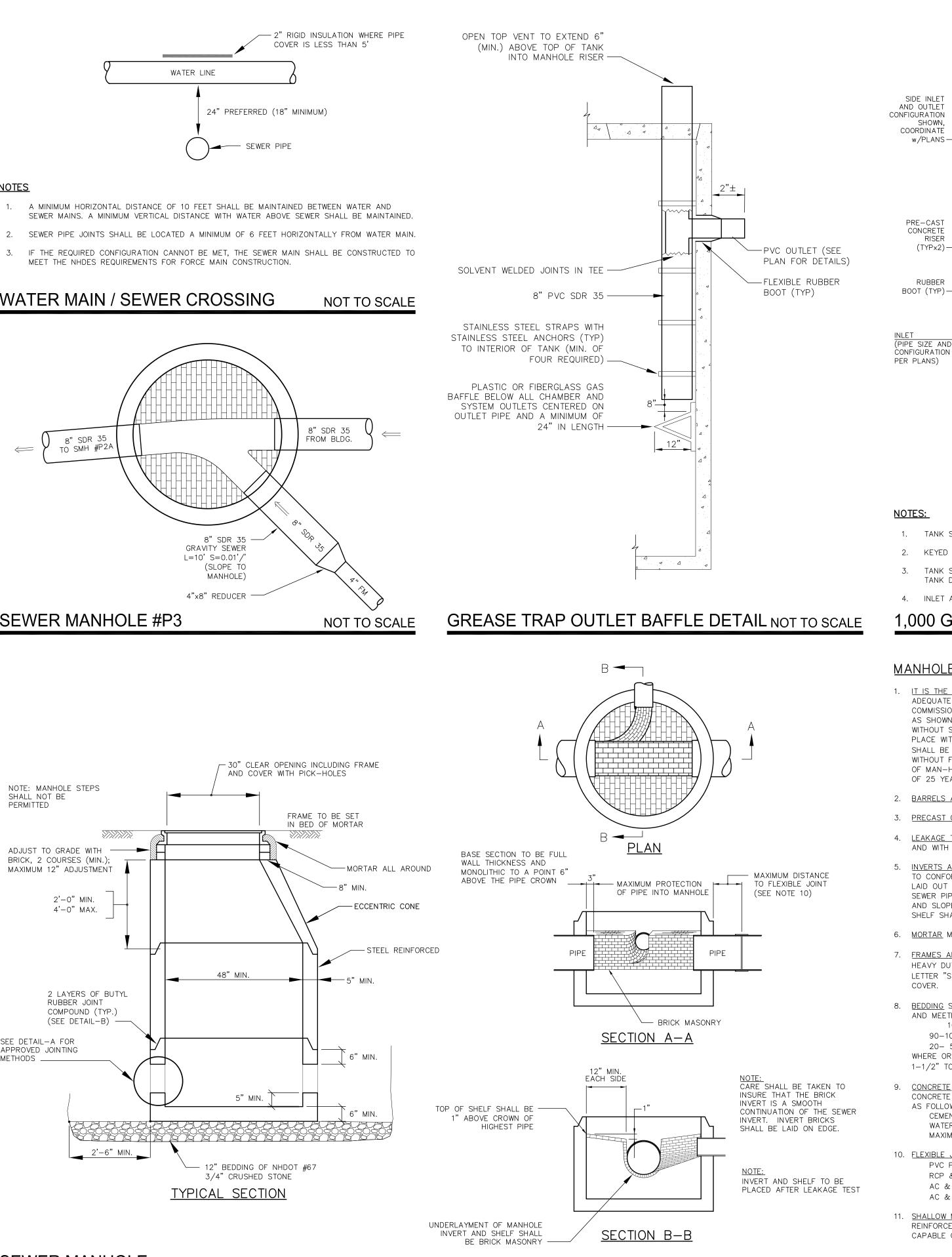
NOT TO SCALE

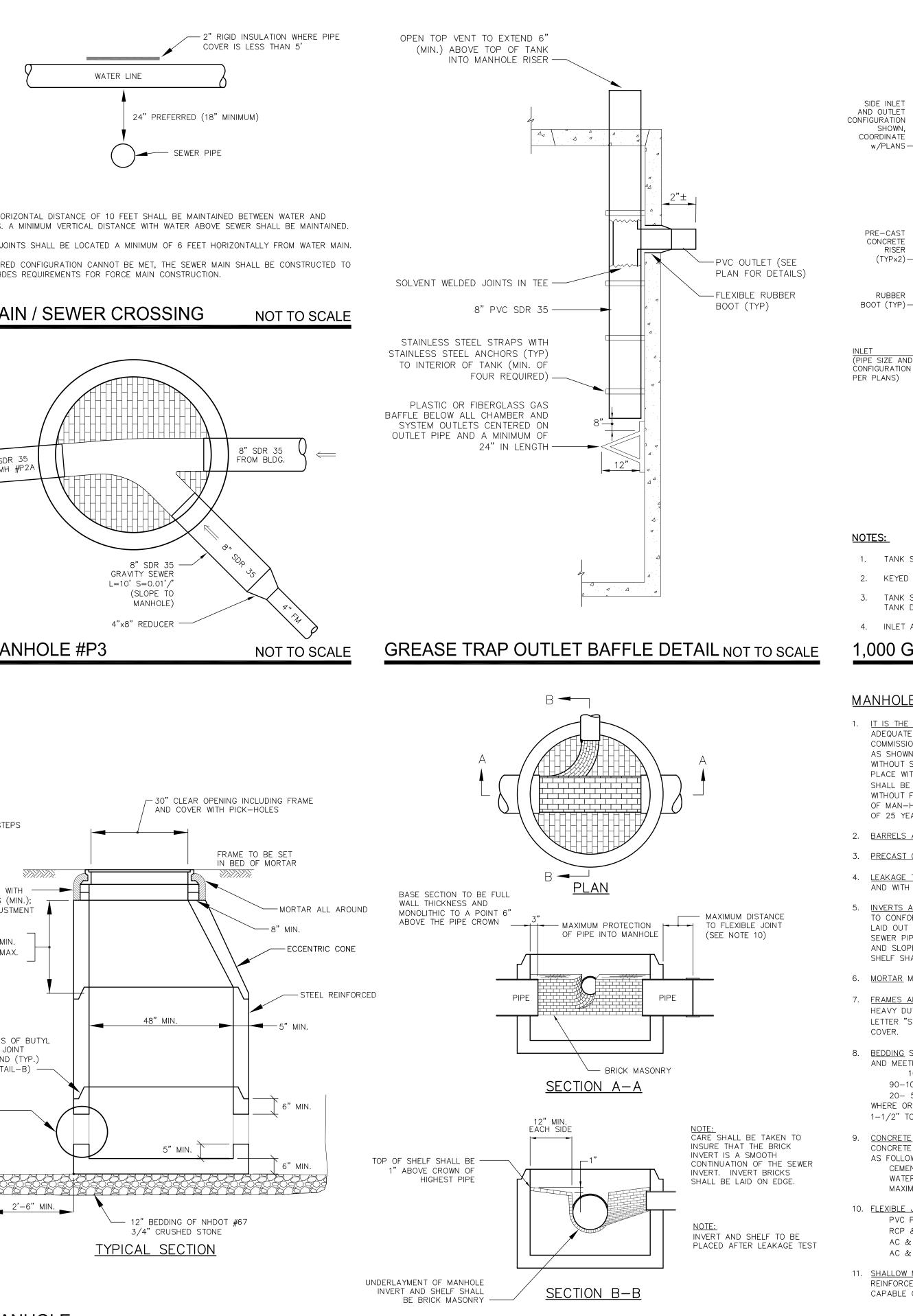
ALTUS
ENGINEERING 133 Court Street Portsmouth, NH 03801
(603) 433-2335 www.altus-eng.com
ERIC WEINRIEB No. 7634 CCENSED D D D D D D D D D D D D D D D D D D
NOT FOR CONSTRUCTION
REVIEW
ISSUE DATE: OCTOBER 23, 2024
REVISIONSNO. DESCRIPTIONBY0INITIAL SUBMISSION1REVISED PER COMMENTS1REVISED PER COMMENTS23/24
DRAWN BY:EBS
APPROVED BY: EBS DRAWING FILE: 5015-SITE.dwg
<u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE
OWNER: RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
APPLICANT: RIVERWOODS COMPANY
AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833
PROJECT: RIVERWOODS SUPPORTIVE LIVING HEATH CENTER
TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833
<u>TITLE:</u>
<u>TITLE:</u>
TITLE: DETAIL SHEET SHEET NUMBER:









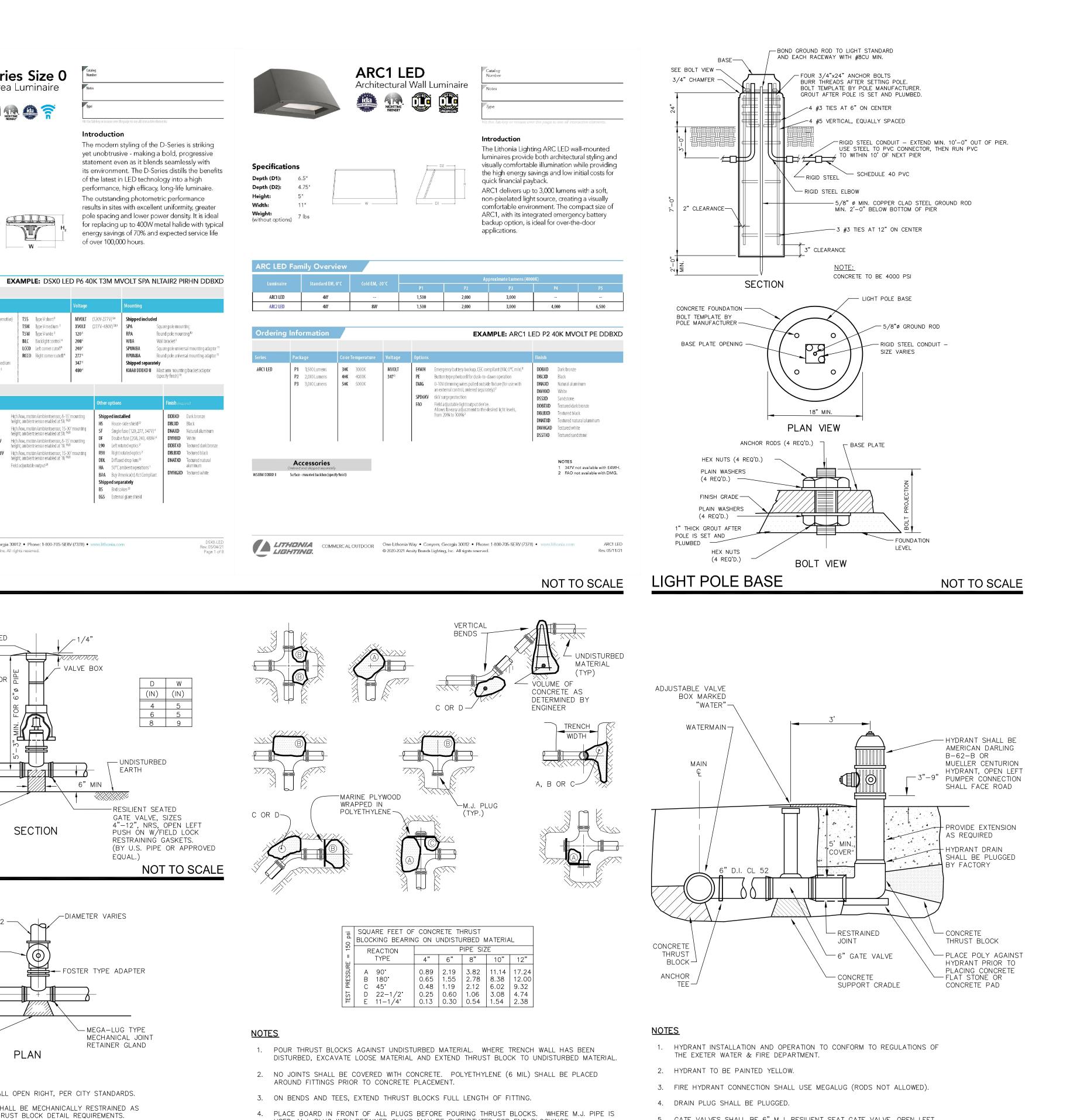


24" INSPECTION COVER (TYPx2 - REMOVED)	S.S. ANCHORS AND STRAPS TO INTERIOR OF TANK
IûI <u>PLAN VIEW</u>	(TYP EACH PIPE)
- 30"Ø CAST IRON FRAME & CC ADJUST TO FINISH GRADE w/E AND MORTAR (TYPx2)	
SEAL w/BUTYL RUBBER (TYP)	OPEN TOP FOR VENTING & CLEANOUT PVC OUTLET TEE
INLET BAFFLE LIQUID LEVEL	→ OUTLET (PIPE SIZE AND CONFIGURATION PER PLANS)
S.S. ANCHORS AND STRAPS TO INTERIOR OF TANK OUTLET BAFFLE (TYPx2 EACH PIPE) (SEE DETAIL)	
	12" BEDDING OF NHDOT #67
TALL BE 4,000 PSI (MIN.) STEEL REINFORCED CONCRETE CAPA TANK JOINTS SHALL BE SEALED WITH BUTYL RUBBER. HALL BE MANUFACTURED BY EF SHEA OR APPROVED EQUAL T MENSIONS MAY VARY DEPENDING ON THE MANUFACTURER. ND OUTLET PIPE SIZES AND CONFIGURATION SHALL BE CONSTR	O THE CAPACITY SHOWN.
ALLON GREASE TRAP	NOT TO SCALE
NOTES: <u>NTENTION</u> OF THE NHDES THAT THE MANHOLE, INCLUDING ALL SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NE I FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CO ON THE DRAWING. MANHOLES MAY BE AN ASSEMBLY OF PRE TEEL REINFORCEMENT, WITH ADEQUATE JOINTING, OR CONCRETE I OR WITHOUT REINFORCEMENT IN ANY APPROVED MANHOLE. OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF ALLURE AND PREVENT LEAKAGE IN EXCESS OF ONE GALLON PE DLE CONTINUOUSLY FOR THE LIFE OF THE STRUCTURE, A PERI RS IS TO BE UNDERSTOOD IN BOTH CASES. <u>ND CONE SECTIONS</u> SHALL BE PRECAST REINFORCED. <u>ONCRETE BARREL SECTIONS</u> , CONES AND BASES SHALL CONFOR <u>EST</u> SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN'S	ECESSARY BY THE DNFIGURATIONS, SHALL BE ECAST SECTIONS, WITH OR E CAST MONOLITHICALLY IN THE COMPLETE STRUCTURE F 8 TONS (H-20 LOADING) ER DAY PER VERTICAL FOOT OD GENERALLY IN EXCESS
NHDES Env-Wq 704.17.	
M TO THE SIZE OF PIPE AND FLOW AT CHANGES IN DIRECTION N CURVES, OF THE LONGEST RADIUS POSSIBLE TANGENT TO TH IS. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDEF LL CONSIST OF BRICK MASONRY. BRICK MASONRY SHALL CONF ORTAR USED FOR MANHOLE CONSTRUCTION SHALL CONFORM W	N. THE INVERTS SHALL BE HE CENTER LINE OF THE THE HIGHEST PIPE CROWN RLAYMENT OF INVERT AND FORM WITH ASTM C32.
<u>D COVERS</u> MANHOLE FRAMES AND COVERS SHALL CONFORM V Y DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. A 3-IN FOR SEWERS OR "D" FOR DRAINS SHALL BE PLAINLY CAST IN	CH (MINIMUM HEIGHT)
CREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, IG ASTM C33. 0% PASSING 1 INCH SCREEN 0–10% PASSING #4 SIEVE 0% PASSING 3/4 INCH SCREEN 0–5% PASSING #8 SIEVE 5% PASSING 3/8 INCH SCREEN ERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED (1/2" SHALL BE USED.	
FOR DROP SUPPORT SHALL CONFORM TO THE REQUIREMENT OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION S' S:	
 6.0 BAGS PER CUBIC YARD 5.75 GALLONS PER BAG CEMENT JM SIZE OF AGGREGATE 1 INCH 9. 	
<u>DINT</u> A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLL PE – 60" CI PIPE – ALL SIZES – 48" VC PIPE – UP THROUGH 12" DIAMETER – 18"	OWING DISTANCES:
VC PIPE – LARGER THAN 12" DIAMETER – 36" <u>ANHOLE</u> IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH O CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRI	
F SUPPORTING H-20 LOADS.	NOT TO SCALE

____ ___ ___ ___ ___ ___

ALTUS ENGINEERING
133 Court Street (603) 433-2335Portsmouth, NH 03801 www.altus-eng.com
ERIC D. WEINRIEB No. 7634 CCENSED VOID VOID VOID VOID VOID VOID VOID VOI
NOT FOR CONSTRUCTION
ISSUED FOR:
REVIEW ISSUE DATE: OCTOBER 23, 2024
REVISIONSBYDATE0INITIAL SUBMISSIONEBS09/10/241REVISED PER COMMENTSEBS10/23/24
DRAWN BY:EBS APPROVED BY:EBS DRAWING FILE:5015-SITE.dwg
<u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE
11" x 17" - 1" = NOT TO SCALE <u>OWNER:</u> RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
APPLICANT: RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
PROJECT: RIVERWOODS SUPPORTIVE LIVING HEATH CENTER TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833 TITLE:
DETAIL SHEET SHEET NUMBER:
C-21

Image: SpecificationsDiameter: $D = 8.25''$ (20.96cm)Height: $H = 41.5''$ Standard (105.41cm)Neight:20lbs (9.07Kg)	<section-header><section-header></section-header></section-header>	Catalog Notes Type The tab key or mease over the page to see all interactive elements. Data Catalog Market Antocation Bradean LED Bollard is an award-winning, energy-saving, long-life solution designed to geform the way a bollard should. The Radean LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide gens of maintenance-free service. Market BrandBer Image: Data Cot of the Cot of t	<image/>
RADB LED Performance Package Color temper RADB LED P1 27K 2700 P2 30K 3000 P3 35K 5500 P4 P5' 50K 5000	ASY Asymmetric ² MVOLT ³ Shipped installed 0 K SYM Symmetric ¹ 120 PE Photoelectric cell, button; ype ⁴⁵ 0 K 208 ³ DMG 0-10V dimming driver (no controls)	Soline top, painted to match shaft SA BTS Slim top, painted to match shaft SA BTT Tall top, painted to match shaft SA BTSDWHXD Slim top, vhite SA BTTDBLXD Tall top, black texture SA BTSDBLKD Slim top, black SA BTTDBLXD Tall top, black SA BTSDBLXD Slim top, black SA BTTDBLXD Tall top, black SA BTSDBLXD Slim top, dark bronze textured SA BTTDDBTXD Tall top, dark bronze textured SA BTSDDBXD Slim top, dark bronze SA BTTDDBXD Tall top, dark bronze SA BTSDDATXD Slim top, natural aluminum textured SA BTTDNAXD Tall top, matural aluminum textured SA BTSDNAXD Slim top, natural aluminum SA BTTDWHGXD Tall top, white textured SA BTSDWHGXD Slim top, white textured SA BTTDWHXD Tall top, white sA	Ordering Information DSX0 LED Junc Information Series LEDs Color temperature Distribution DSX0 LED Forward optics P1 P5 Gold K 40K 400K K 11S Type I short (Automotic 12S Type I short (Automotic 12K Type I short (Aut
	 BCF Flat crown, painted to match shaft.⁴ BCFDBLBXD Flat crown, black textured.⁹ BCFDBLXD Flat crown, black textured.⁹ BCFDDBXD Flat crown, dark bronze textured.⁹ BCFDDBXD Flat crown, dark bronze textured.⁹ BCFDDBXD Flat crown, dark bronze.⁹ BCFDNATXD Flat crown, natural aluninum textured.⁹ BCFDWHXD Flat crown, white textured.⁹	ions Finish (required) 24" overall height DDBXD Dark bronze: 30" overall height DBLXD Black 36" overall height DNAXD Natural aluminum Without anchor bolts DWHXD White DDBTXD Textured dark bronze DBEXD DBTXD Textured black DNATXD DNATXD Textured black DNATXD DNATXD Textured white Vevo illuminated quadrants driven ve currents to generate similar 6 E7WH and PIR only available in full height. Not available with H24, H30 or H36. 7 PIR not available with B47V or 480V. 3 4xchitectural and custom colors available 64	Shipped installed PIR NITAIR2 nLight AIR generation 2 enabled ^{18,8} PIRH PIRHN Network, hi[h]/low moton/ambient sensor ¹⁶ PIRH PER NEMA twist-lock receptacle only (control ordered separate) ^{16,10} PIRH PER Five-pin receptacle only (control ordered separate) ^{16,10} PIRHIFC3V PER Separate) ^{18,10} PIRHIFC3V Separate) ^{18,10} MG 0-10V dimning extend out back ofhousing for external control (control ordered separate) ⁸
LIGHTING.	© 2012-2024 Acuity Brands Lighting, Inc. All rights	• Phone: 1-800-705-SERV (7378) • www.lithonia.com RADB-LED sreserved. Rev. 3/27/24	One Lithonia Way • Conyers, Georg © 201'-2021 Acuity Brands Lighting, Inc COMMERCIAL OUTDOOR BOX COVER TO BE MARKET "WATER"
VGC SGC VGC SGC	PROPOSED PAVEMENT/VERTIC	CAL OR SLOPED GRANITE CURB	VALVE BOX DESIGNED FOF USE WITH RESPECTIVE VALVE
60 <u>60</u> 100.00 × 104.00TW 100.00BW 	PROPOSED RETAINING WALL	NK FENCE OR RAILING R 9 & BOTTOM OF WALL	CONCRETE SUPPORT CRADLE
GUGU _ ℓ OHWUGU _ ℓ D W¥ → PWF ⇒ SSFM G	EXISTING DRAINAGE/CB/DMH PROPOSED THRUST BLOCK/C PROPOSED DOMESTIC/FIRE W	URB STOP/VALVE/HYDRANT ATER SERVICE LINE	SEE NOTE 2 MJ GATE VALVE AS SHOWN ON DRAWINGS
OHW - € 	PROPOSED OVERHEAD UTILITI PROPOSED UNDERGROUND EL PROPOSED UNDERGROUND EL PROPOSED DRAINAGE (HARD	ECTRIC/COMMUNICATIONS ECTRIC AND COMMUNICATIONS PIPE)/CB/DCB/DMH/FES DRATED PIPE)/CLEANOUT	DIAMETER VARIES
44 226	SILTFENCE/SEDIMENT BARRIER STABILIZED CONSTRUCTION E	R/CONST. FENCE XIT ANCE OR TOTAL SITE	1. GATE VALVES SHAL 2. BRANCH PIPING SH, NOTED UNDER THR
8480967884 8	PROPOSED RIPRAP PROPOSED RAINGARDEN PROPOSED POROUS PAVEMEN	νT	



ASSEMBLY

NOT TO SCALE

THRUST BLOCKING

USED, M.J. PLUG WITH RETAINER GLAND MAY BE SUBSTITUTED FOR END BLOCKINGS.

NOT TO SCALE

5. GATE VALVES SHALL BE 6" M.J. RESILIENT SEAT GATE VALVE, OPEN LEFT, CONFORMING TO EXTER WATER DEPARTMENT REQUIREMENTS.

FIRE HYDRANT

NOT TO SCALE

ALI US ENGINEERING
133 Court Street Portsmouth, NH 03801
133 Court StreetPortsmouth, NH 03801(603) 433-2335www.altus-eng.com
ERIC D. WEINRIEB No. 7634 CONSED No. 7634 CONSED NO. 7634 CONSED NO. 7634 CONSED NO. 7634 CONSED NO. 7634 CONSED C
NOT FOR CONSTRUCTION
ISSUE DATE:
OCTOBER 23, 2024
NO. DESCRIPTIONBYDATE0INITIAL SUBMISSIONEBS09/10/241REVISED PER COMMENTSEBS10/23/24
DRAWN BY:EBSAPPROVED BY:EBSDRAWING FILE:5015-SITE.dwg
<u>SCALE:</u> 24" x 36" - 1" = NOT TO SCLAE 11" x 17" - 1" = NOT TO SCALE
OWNER: RIVERWOODS COMPANY
AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833
RIVERWOODS COMPANY AT EXETER
7 RIVERWOODS DRIVE EXETER, NH 03833
RIVERWOODS SUPPORTIVE LIVING HEATH CENTER
TAX MAP 97 LOT 23 5 WHITE OAK DRIVE
EXETER, NH 03833
DETAIL SHEET SHEET NUMBER:
<u>C-22</u>



Proposed Courtyard

JOLLY RAND TRAIL

Future Patio

(design TBD, to be enclosed w. fence

> Long Grasses Mow 2x per year

Landscape Notes

Design is based on drawings by Altus Engineering dated October 23, 2024 and may require adjustment due to actual field onditions The contractor shall follow best management practices during construction and shall take all means necessary to stabilize and protect the site from erosion. Erosion Control shall be in place prior to construction.

The Contractor shall verify layout and grades and inform the Landscape Architect or Client's Representative of any discrepancies or changes in layout and/or grade relationships prior to construction. It is the contractor's responsibility to verify drawings provided are to the correct scale prior to any bid, estimate or installation. A graphic scale bar has been provided on each sheet for this purpose. If it is determined that the scale of the drawing is ncorrect, the landscape architect will provide a set of drawings at the correct scale, at the request of the contractor. Trees to Remain within the construction zone shall be protected from damage for the duration of the project by snow fence or other suitable means of protection to be approved by Landscape Architect or Client's Representative. Snow fence shall be located at the drip line at a minimum and shall include any and all surface roots. Do not fill or mulch on the trunk flare. Do not disturb roots. In order to protect the integrity of the roots, branches, trunk and bark of the tree(s) no vehicles or construction equipment shall drive or park in or on the area within the drip line(s) of the tree(s). Do not store any refuse or construction materials or portalets within the tree protection area.

This plan is for review purposes only, NOT for Construction. Construction Documents will be provided upon request. Location, support, protection, and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor. The Contractor shall verify exact location and elevation of all utilities with the respective utility owners prior to construction. Call DIGSAFE at 1-888-344-7233.

The Contractor shall procure any required permits prior to construction. 1. Prior to any landscape construction activities Contractor shall test all existing loam and loam from off-site intended to be used for lawns and plant beds using a thorough sampling throughout the supply. Soil testing shall indicate levels of pH, nitrates, macro and micro nutrients, texture, soluble salts, and organic matter. Contractor shall provide Landscape Architect with test results and recommendations from the testing facility along with soil amendment plans as necessary for the proposed plantings to thrive. All loam to be used on site shall be amended as approved by the Landscape Architect prior to placement. Contractor shall notify landscape architect or owner's representative immediately if at any point during demolition or construction a site condition is discovered which may negatively impact the completed project. This includes, but is not limited to, unforeseen drainage problems, unknown subsurface conditions, and discrepancies between the plan and the site. If a contractor is aware of a potential issue, and does not bring it to the attention of the landscape architect or owner's

representative immediately, they may be responsible for the labor and materials associated with correcting the problem. 13. The Contractor shall furnish and plant all plants shown on the drawings and listed thereon. All plants shall be nursery-grown under climatic conditions similar to those in the locality of the project. Plants shall conform to the botanical names and standards of size, culture, and quality for the highest grades and standards as adopted by the American Association of Nurserymen, Inc. in the American Standard of Nursery Stock, American Standards Institute, Inc. 230 Southern Building, Washington, D.C. 20005. A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
 All plants shall be legibly tagged with proper botanical name.

The Contractor shall guarantee all plants for not less than one year from time of acceptance. 7. Owner or Owner's Representative will inspect plants upon delivery for conformity to Specification requirements. Such approval shall not affect the right of inspection and rejection during or after the progress of the work. The Owner reserves the right to inspect and/or select all trees at the place of growth and reserves the right to approve a representative sample of each type of shrub, herbaceous perennial, annual, and ground cover at the place of growth. Such sample will serve as a minimum standard for all plants of the same species used in this work. No substitutions of plants may be made without prior approval of the Owner or the Owner's Representative for any reason.

All landscaping shall be provided with the following: a. Outside hose attachments spaced a maximum of 150 feet apart, and

Pg(2)

ThP2(5)

Bioretention Basin Seed Mix

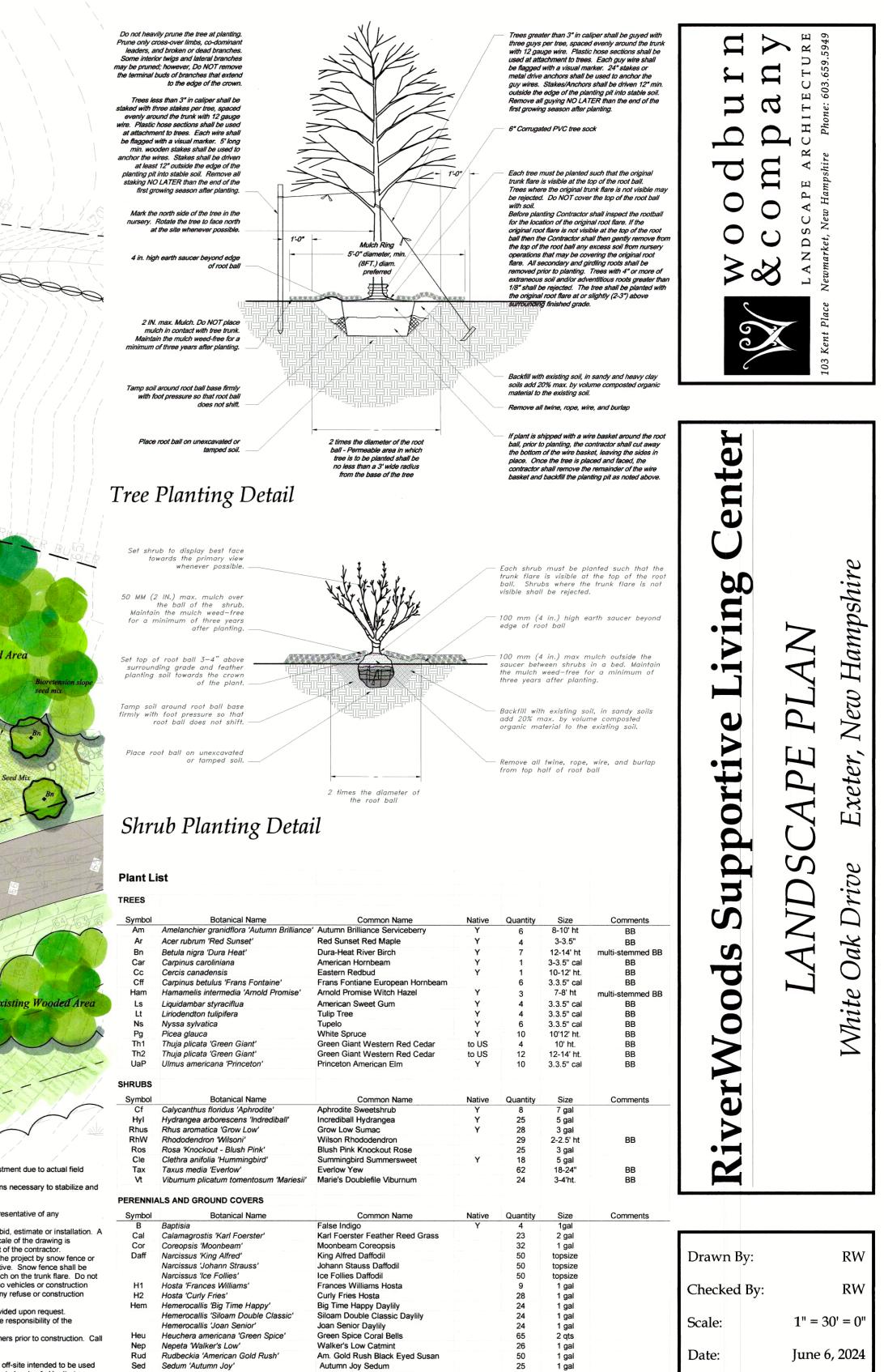
An underground irrigation system, or A temporary irrigation system designed for a two-year period of plant establishment. If an automatic irrigation system is installed, all irrigation valve boxes shall be located within planting bed areas.
 The contractor is responsible for all plant material from the time their work commences until final acceptance. This includes but is not limited to maintaining all plants in good condition, the security of the plant material once delivered to the site, and watering of plants. Plants shall be appropriately watered prior to, during and after planting. It is the contractor's responsibility to provide clean water suitable for plant health from off site, should it not be available on site. All disturbed areas will be dressed with 6" of topsoil and planted as noted on the plans or seeded except plant beds. Plant beds shall be prepared to a depth of 12" with 75% loam and 25% compost. Trees, ground cover, and shrub beds shall be mulched to a depth of 2" with one-year-old, well-composted, shredded native

bark not longer than 4" in length and ½" in width, free of woodchips and sawdust. Mulch for ferns and herbaceous perennials shall be no longer than 1" in length. Trees in lawn areas shall be mulched in a 5' diameter min. saucer. Color of mulch shall be black. 4. Drip strip shall extend to 6" beyond roof overhang and shall be edged with 3/16" thick metal edger.

.25. In no case shall mulch touch the stem of a plant nor shall mulch ever be more than 3" thick total (including previously applied mulch) over the root ball of any plant. 26. Secondary lateral branches of deciduous trees overhanging vehicular and pedestrian travel ways shall be pruned up to a

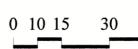
height of 6' to allow clear and safe passage of vehicles and pedestrians under tree canopy. Within the sight distance triangles at vehicle intersections the canopies shall be raised to 8' min. 27. Snow shall be stored a minimum of 5' from shrubs and trunks of trees

28. Landscape Architect is not responsible for the means and methods of the contractor.



BIORETENTION SLOPES

BIORETENTION BASIN



Sheet 1 of 1 © 2024 Woodburn & Company Landscape Architecture, LLC

Prairie Nursery No Mow Fescue or approved equal

50% New England Wetland Plants New England Showy Wildflower Mix

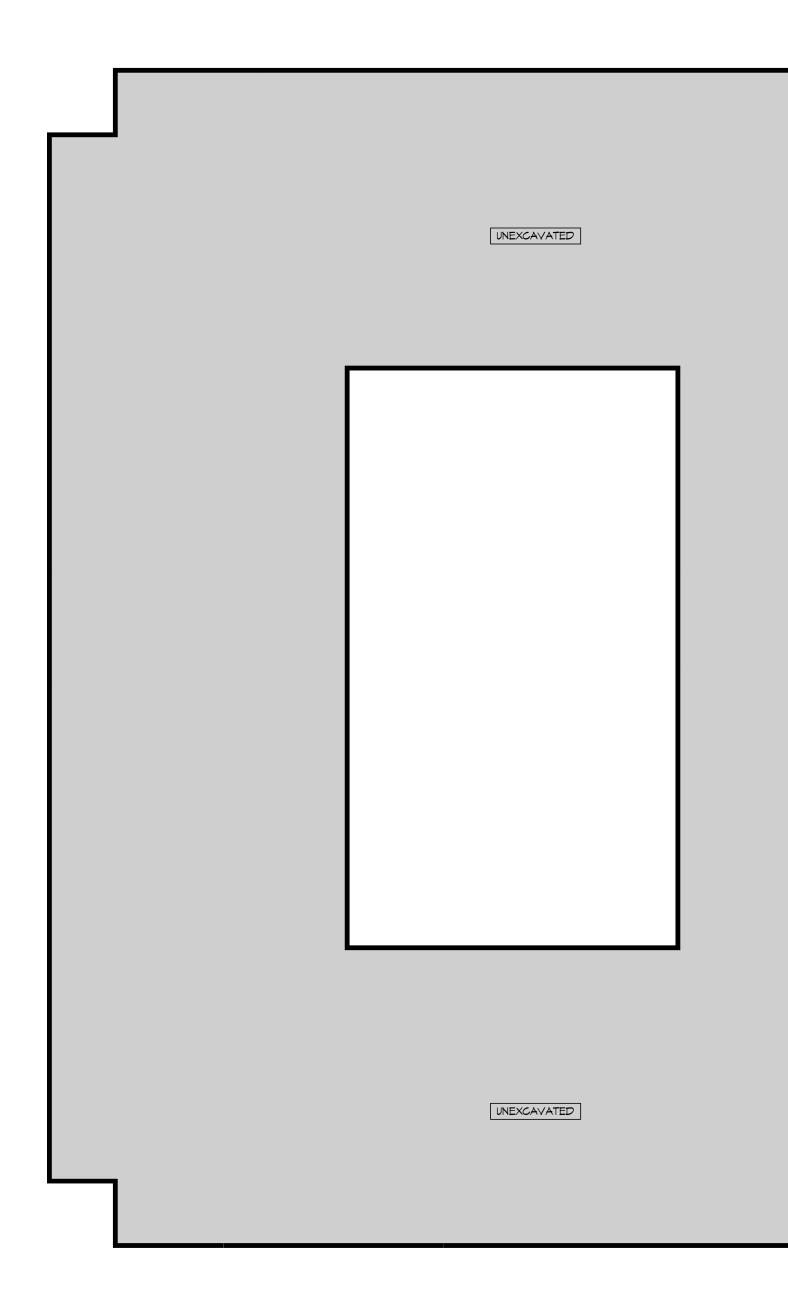
50% New England Wetland Plants Erosion Control/Restoration Mix for Detention Basins and Moist

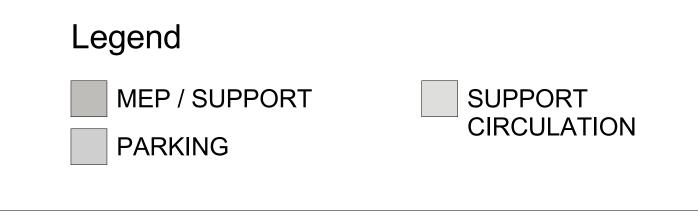
Revisions:

September 10, 2024

October 23, 2024

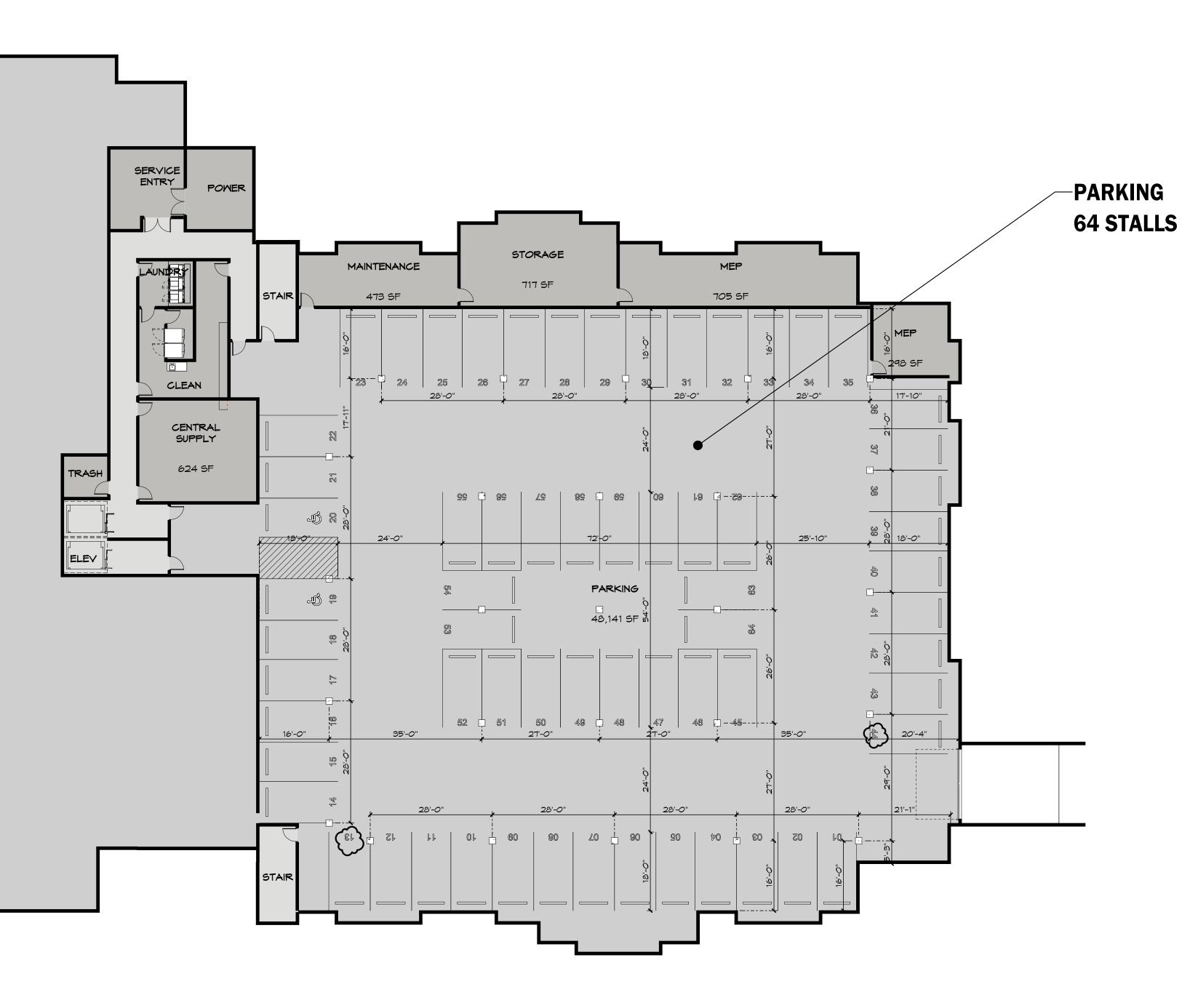
Symbol	Botanical Name	Common Name	Native	Quantity	Size	Comments
Am	Amelanchier granidflora 'Autumn Brilliance'		Y	6	8-10' ht	BB
Ar	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	Y	4	3-3.5"	BB
Bn	Betula nigra 'Dura Heat'	Dura-Heat River Birch	Ŷ	7	12-14' ht	multi-stemmed Bl
Car	Carpinus caroliniana	American Hornbeam	Ý	1	3-3.5" cal	BB
Cc	Cercis canadensis	Eastern Redbud	Ý	1	10-12' ht.	BB
Cff	Carpinus betulus 'Frans Fontaine'	Frans Fontiane European Hornbeam	•	6	3.3.5" cal	BB
Ham	Hamamelis intermedia 'Arnold Promise'	Arnold Promise Witch Hazel	Y	3	7-8' ht	multi-stemmed B
Ls	Liquidambar styraciflua	American Sweet Gum	Ŷ	4	3.3.5" cal	BB
Lt	Liriodendton tulipifera	Tulip Tree	Ý	4	3.3.5" cal	BB
Ns	Nyssa sylvatica	Tupelo	Ý	6	3.3.5" cal	BB
Pg	Picea glauca	White Spruce	Y	10	10'12' ht.	BB
Th1	Thuja plicata 'Green Giant'	Green Giant Western Red Cedar	to US	4	10' ht.	BB
Th2	Thuja plicata 'Green Giant'	Green Giant Western Red Cedar	to US	12	12-14' ht.	BB
UaP	Ulmus americana 'Princeton'	Princeton American Elm	10 03 Y	12	3.3.5" cal	BB
Car				10	0.0.0 Cal	00
HRUBS						
Symbol	Botanical Name	Common Name	Native	Quantity	Size	Comments
Cf	Calycanthus floridus 'Aphrodite'	Aphrodite Sweetshrub	Y	8	7 gal	
Hyl	Hydrangea arborescens 'Indrediball'	Incrediball Hydrangea	Y	25	5 gal	
Rhus	Rhus aromatica 'Grow Low'	Grow Low Sumac	Y	28	3 gal	
RhW	Rhododendron 'Wilsoni'	Wilson Rhododendron		29	2-2.5' ht	BB
Ros	Rosa 'Knockout - Blush Pink'	Blush Pink Knockout Rose		25	3 gal	
Cle	Clethra anifolia 'Hummingbird'	Summingbird Summersweet	Y	18	5 gal	
Tax	Taxus media 'Everlow'	Everlow Yew		62	18-24"	BB
Vt	Viburnum plicatum tomentosum 'Mariesii'	Marie's Doublefile Viburnum		24	3-4'ht.	BB
ERENNI	ALS AND GROUND COVERS					
Symbol	Botanical Name	Common Name	Native	Quantity	Size	Comments
B	Baptisia	False Indigo	Y	4	1gal	Comments
Cal	Calamagrostis 'Karl Foerster'	Karl Foerster Feather Reed Grass		23	2 gal	
Cor	Coreopsis 'Moonbeam'	Moonbeam Coreopsis		32	1 gal	
Daff	Narcissus 'King Alfred'	King Alfred Daffodil		50	topsize	
Daii	Narcissus 'Johann Strauss'	Johann Stauss Daffodil		50	topsize	
	Narcissus 'Ice Follies'	Ice Follies Daffodil		50	topsize	
H1	Hosta 'Frances Williams'	Frances Williams Hosta		9	1 gal	
H2	Hosta 'Curly Fries'	Curly Fries Hosta		28	1 gal	
Hem	Hemerocallis 'Big Time Happy'	Big Time Happy Daylily		24	1 gal	
nem	Hemerocallis 'Siloam Double Classic'	Siloam Double Classic Daylily		24	1 gal	
	Hemerocallis 'Joan Senior'	Joan Senior Daylily		24	1 gal	
Heu	Heuchera americana 'Green Spice'	Green Spice Coral Bells		65	2 qts	
Nep	Nepeta 'Walker's Low'	Walker's Low Catmint		26	1 gal	
Rud	Rudbeckia 'American Gold Rush'	Am. Gold Rush Black Eyed Susan		50	1 gal	
Sed	Sedum 'Autumn Joy'	Autumn Joy Sedum		25	1 gal	
Tia	Tiarella 'Running Tapestry'	Running Tapestry Foamflower		90	1 gal	
		- 4 B - 6				
	ES - Prep and Install per manufacturer's i	instantion guides.				
EED MIX	ES - Prep and Install per manufacturer's i SEEDING	50% American Meadows - Native North 50% New England Wetland Plants Sho				





RiverWoods Exeter Health Center

Exeter, New Hampshire



HEALTHCARE BUILDING INFO

TOTAL BUILDING AREA = 173,893 SQFT COMMONS = 42,499 SQ FT (337 SF/UNIT) AL = 30,351 SQ FT (1084 SF/UNIT) AL-2 = 34,845 SQ FT (645 SF/UNIT) MS = 21,106 SQ FT (879 SF/UNIT) SNF = 21,106 SQ FT (1055 SF/UNIT) PARKING = 23,986 SQ FT **BUILDING FOOTPRINT = 51,558 SQ FT** LEASABLE AREA = 59,186 SQ FT AL = 19,020; (5) 1.1 S, (14) 1.1 SD, (9) 2.2 D AL-2 = 21,033

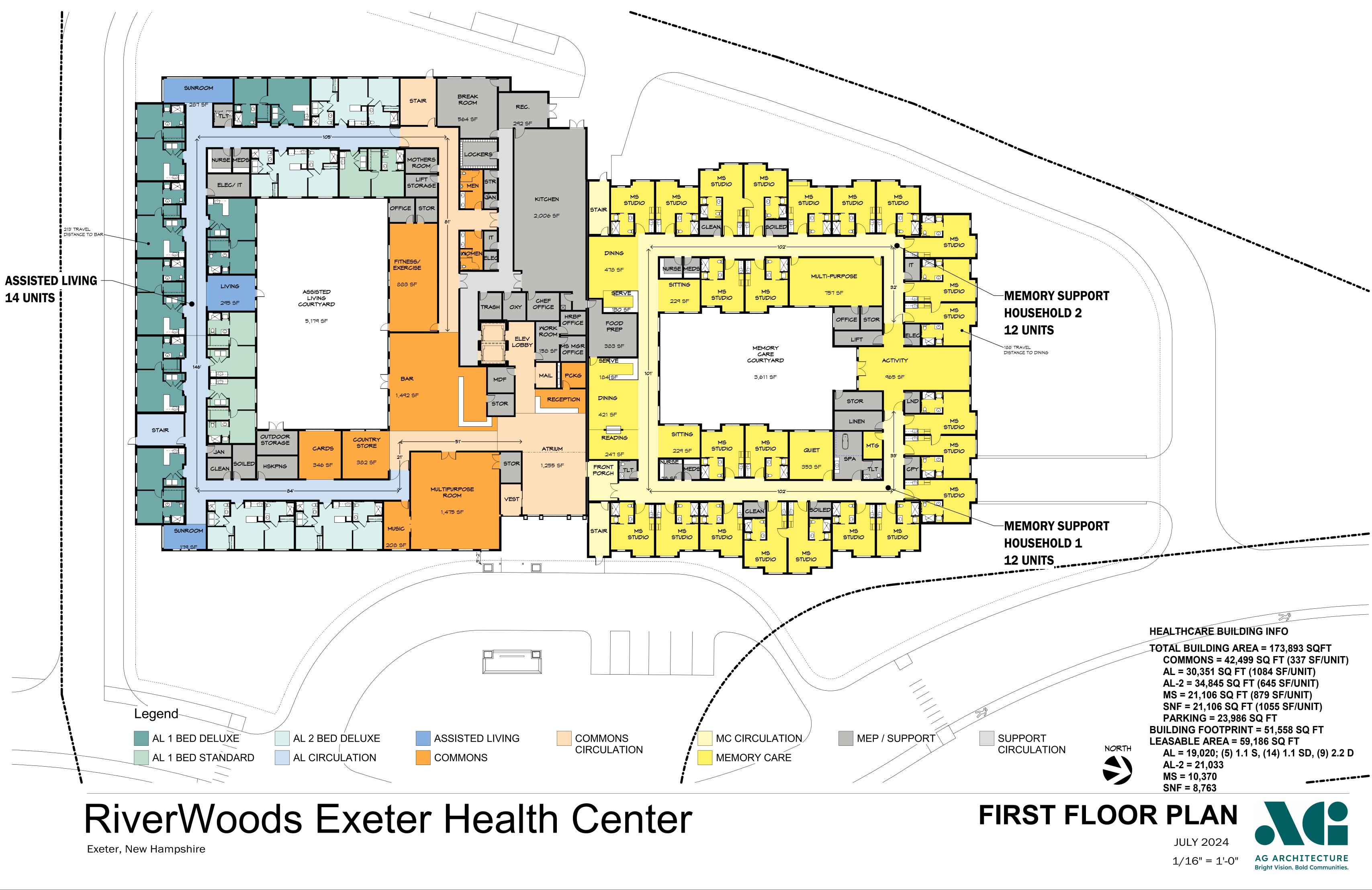


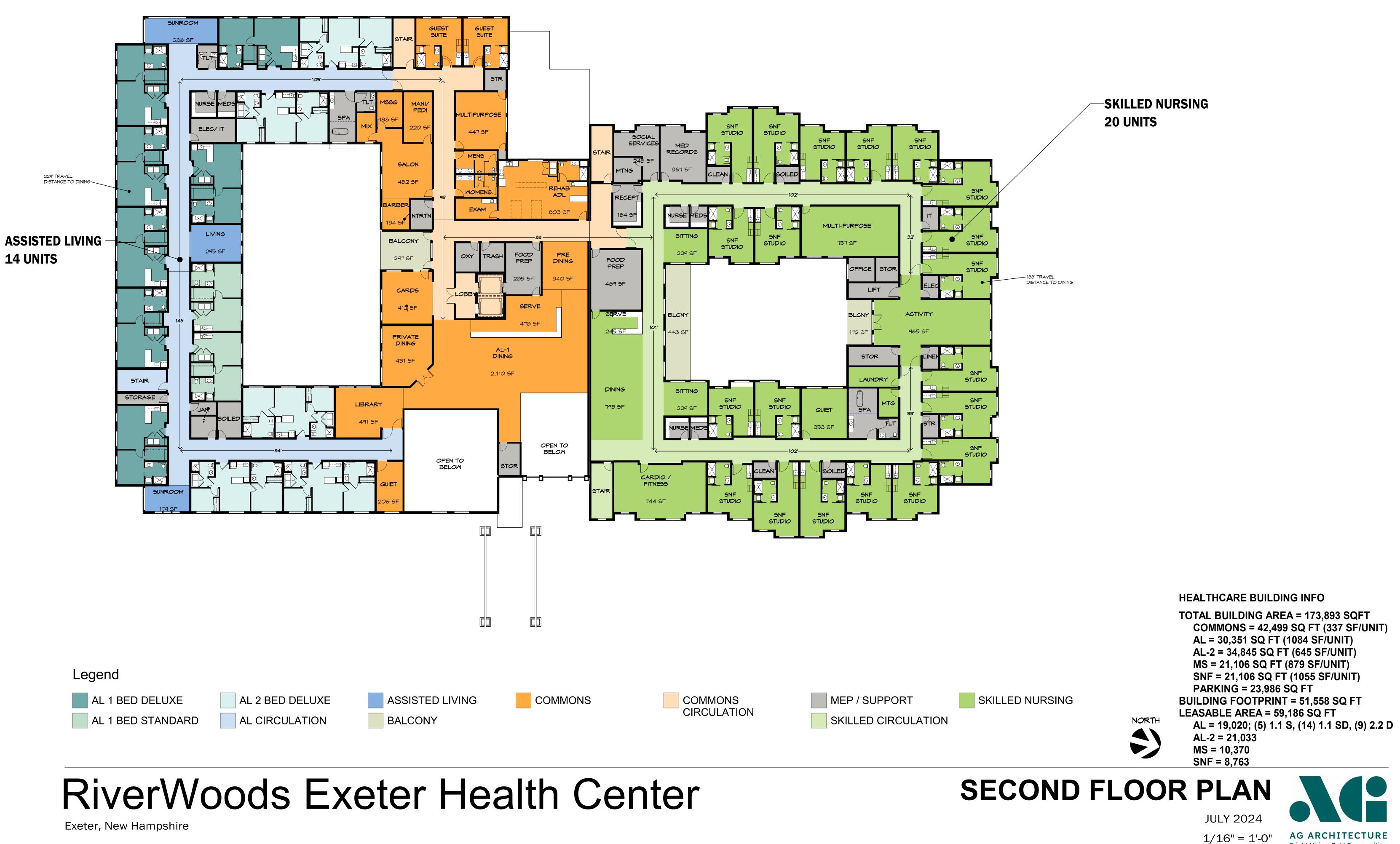
MS = 10,370 SNF = 8,763 LOWER LEVEL FLOOR PLAN

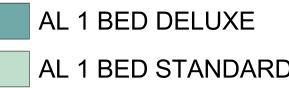
> JULY 2024 1/16" = 1'-0"



Bright Vision. Bold Communities.







Bright Vision. Bold Communities.





RiverWoods Exeter Health Center

Exeter, New Hampshire

ASSISTED LIVING

COMMONS



MEP / SUPPORT



HEALTHCARE BUILDING INFO

TOTAL BUILDING AREA = 173,893 SQFT COMMONS = 42,499 SQ FT (337 SF/UNIT) AL = 30,351 SQ FT (1084 SF/UNIT) AL-2 = 34,845 SQ FT (645 SF/UNIT) MS = 21,106 SQ FT (879 SF/UNIT) SNF = 21,106 SQ FT (1055 SF/UNIT) **PARKING = 23,986 SQ FT BUILDING FOOTPRINT = 51,558 SQ FT** LEASABLE AREA = 59,186 SQ FT AL = 19,020; (5) 1.1 S, (14) 1.1 SD, (9) 2.2 D





AL-2 = 21,033 MS = 10,370 SNF = 8,763



JULY 2024 1/16" = 1'-0"



Bright Vision. Bold Communities.







Exeter, New Hampshire



THIRD FLOOR TOP OF

SECOND FLOOR TOP OF

FIRST FLOOR TOP OF CONCRETE



EXTERIOR ELEVATIONS

1/8" = 1'-0"

JULY 2024





Exeter, New Hampshire











EXTERIOR ELEVATIONS

JULY 2024 1/8" = 1'-0"





Exeter, New Hampshire





JULY 2024



NH DES WETLANDS BUREAU MAJOR IMPACT DREDGE & FILL APPLICATION For RIVERWOODS EXETER

SUPPORTIVE LIVING HEALTH CENTER

5 White Oak Drive

Exeter, NH

October 2024

Prepared By

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

Table of Contents

NH DES Standard Dredge and Fill Application Forms

Standard Application Form Attachment A Avoidance and Minimization Narrative Waiver Request

Figures

USGS Locus Map Aerial Photo WPPT Results Overall Campus Figure

Attachments

Attachment A	Impact Area Photos
Attachment B	Abutter Information
Attachment C	Wetland Report & Functional Assessment
Attachment D	ACOE Supplemental Information
	Secondary Impacts Checklist, SHPO Inquiry, IPaC Report
Attachment E	New Hampshire Natural Heritage Inquiry
Attachment F	Site Plans (under separate cover)

NH DES Dredge & Fill Application Forms





STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION Water Division / Land Resources Management Check the Status of your Application



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

APPLICANT'S NAME:

TOWN NAME:

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

A person may request a waiver of the requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interest of the public or the environment but is still in compliance with RSA 482-A. A person may also request a waiver of the standards for existing dwellings over water pursuant to RSA 482-A:26, III(b). For more information, please consult the <u>Waiver Request Form</u>.

SEC	SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; RSA 482-A:3, I(d)(2))					
Res	Please use the <u>Wetland Permit Planning Tool (WPPT)</u> , the Natural Heritage Bureau (NHB) <u>DataCheck Tool</u> , the <u>Aquatic</u> <u>Restoration Mapper</u> , or other sources to assist in identifying key features such as: <u>Priority Resource Areas (PRAs)</u> , <u>protected species or habitats</u> , coastal areas, designated rivers, or designated prime wetlands.					
Has	s the required planning been completed?	🗌 Yes 📃 No				
Doe	es the property contain a PRA? If yes, provide the following information:	🗌 Yes 🗌 No				
•	Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHFG) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04.	🌅 Yes 📃 No				
•	Protected species or habitat? If yes, species or habitat name(s): NHB Project ID #: 	🗌 Yes 🗌 No				
•	Bog?	🗌 Yes 🗌 No				
•	Floodplain wetland contiguous to a tier 3 or higher watercourse?	🗌 Yes 🗌 No				
•	Designated prime wetland or duly-established 100-foot buffer?	🗌 Yes 🗌 No				
•	Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	🗌 Yes 🗌 No				
Is the property within a Designated River corridor? If yes, provide the following information:						
•	Name of Local River Management Advisory Committee (LAC):					
•	A copy of the application was sent to the LAC on Month: Day: Year:					

For dredging projects, is the subject property contaminated?If yes, list contaminant:	Yes No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	Yes No
For stream crossing projects, provide watershed size (see <u>WPPT</u> or Stream Stats):	
SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))	
Provide a description of the project and the purpose of the project, the need for the proposed impacts t	
areas, an outline-of the scope of work to be performed, and whether impacts are temporary or permane	ent.
SECTION 3 - PROJECT LOCATION	
Separate wetland permit applications must be submitted for each municipality within which wetland im	pacts occur.
ADDRESS:	
TOWN/CITY:	
TAX MAP/BLOCK/LOT/UNIT:	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME:	

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

SECTION 4 - APPLICANT (DESIRED PERMIT HOLDER) IN If the applicant is a trust or a company, then complete v	•	• ••					
NAME:							
MAILING ADDRESS:							
TOWN/CITY:		STATE:	ZIP CODE:				
EMAIL ADDRESS:							
FAX:	PHONE:						
ELECTRONIC COMMUNICATION: By initialing here, I her this application electronically.	eby authorize NHDES to cor	nmunicate all ma	atters relative to				
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-	Wt 311.04(c))						
LAST NAME, FIRST NAME, M.I.:							
COMPANY NAME:							
MAILING ADDRESS:							
TOWN/CITY:	TOWN/CITY: STATE: ZIP CODE:						
EMAIL ADDRESS:							
FAX:	PHONE:						
ELECTRONIC COMMUNICATION: By initialing here, I her this application electronically.	eby authorize NHDES to cor	nmunicate all ma	atters relative to				
SECTION 6 - PROPERTY OWNER INFORMATION (IF DIF If the owner is a trust or a company, then complete with Same as applicant		-)))				
NAME:							
MAILING ADDRESS:							
TOWN/CITY: STATE: ZIP CODE:							
EMAIL ADDRESS:							
FAX:	PHONE:						
ELECTRONIC COMMUNICATION: By initialing here, I her this application electronically.	eby authorize NHDES to cor	nmunicate all ma	atters relative to				

SECTION 7 - RESOURCE-SPECIFIC CRITERIA ESTABLISHED IN Env-Wt 400, Env-Wt 500, Env-Wt 600, Env-Wt 700, OR
Env-Wt 900 HAVE BEEN MET (Env-Wt 313.01(a)(3))

Describe how the resource-specific criteria have been met for each chapter listed above (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters):

SECTION 8 - AVOIDANCE AND MINIMIZATION

Impacts within wetland jurisdiction must be avoided to the maximum extent practicable (Env-Wt 313.03(a)).* Any project with unavoidable jurisdictional impacts must then be minimized as described in the <u>Wetlands Best Management</u> <u>Practice Techniques For Avoidance and Minimization</u> and the <u>Wetlands Permitting: Avoidance, Minimization and</u> <u>Mitigation fact sheet</u>. For minor or major projects, a functional assessment of all wetlands on the project site is required (Env-Wt 311.03(b)(10)).*

Please refer to the application checklist to ensure you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable). Use the <u>Avoidance and Minimization Checklist</u>, the <u>Avoidance and Minimization Narrative</u>, or your own avoidance and minimization narrative.

*See Env-Wt 311.03(b)(6) and Env-Wt 311.03(b)(10) for shoreline structure exemptions.

SECTION 9 - MITIGATION REQUIREMENT (Env-Wt 311.02)

If unavoidable jurisdictional impacts require mitigation, a mitigation <u>pre-application meeting</u> must occur at least 30 days but not more than 90 days prior to submitting this Standard Dredge and Fill Permit Application.

Mitigation Pre-Application Meeting Date: Month: Day: Year:

(N/A - Mitigation is not required)

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

Confirm that you have submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent unavoidable impacts that will remain after avoidance and minimization techniques have been exercised to the maximum extent practicable: I confirm submittal.

(N/A – Compensatory mitigation is not required)

SECTION 11 - IMPACT AREA (Env-Wt 311.04(g))

For each jurisdictional area that will be/has been impacted, provide square feet (SF) and, if applicable, linear feet (LF) of impact, and note whether the impact is after-the-fact (ATF; i.e., work was started or completed without a permit).

NHDES-W-06-012

For intermittent and ephemeral streams, the linear footage of impact is measured along the thread of the channel. *Please note, installation of a stream crossing in an ephemeral stream may be undertaken without a permit per Rule Env-Wt 309.02(d), however other dredge or fill impacts should be included below.*

For perennial streams/rivers, the linear footage of impact is calculated by summing the lengths of disturbances to the channel and banks.

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

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

JUR	ISDICTIONAL AREA	PERM. SF	PERM. LF	PERM. ATF	TEMP. SF	TEMP. LF	TEMP. ATF
	Forested Wetland	51			- 51		
	Scrub-shrub Wetland						
s	Emergent Wetland			Π			
and	Wet Meadow						
Wetlands	Vernal Pool						
3	Designated Prime Wetland						
	Duly-established 100-foot Prime Wetland Buffer						
	Intermittent / Ephemeral Stream						
e	Perennial Stream or River						
Surface	Lake / Pond						
Su	Docking - Lake / Pond						
	Docking - River						
S	Bank - Intermittent Stream						
Banks	Bank - Perennial Stream / River						
ñ	Bank / Shoreline - Lake / Pond						
	Tidal Waters						
	Tidal Marsh						
lidal	Sand Dune						
Ĕ	Undeveloped Tidal Buffer Zone (TBZ)						
	Previously-developed TBZ						
	Docking - Tidal Water						
	TOTAL						
EC	TION 12 - APPLICATION FEE (RSA 482-A:3, I)						
	MINIMUM IMPACT FEE: Flat fee of \$400.						
	NON-ENFORCEMENT RELATED, PUBLICLY-FUN IMPACT CLASSIFICATION: Flat fee of \$400 (ref					CTS, REGARDI	ESS OF
	MINOR OR MAJOR IMPACT FEE: Calculate usir				01137.		
		-				60.40	ć
Permanent and temporary (non-docking): SF × \$0.40 =						•	
		ocking struc		SF		× \$2.00 =	\$
	Permanent d	-		SF		× \$4.00 =	\$
	Projects p	roposing sh	orenne stri	uctures (Incl		s) add \$400 = Total =	\$ \$
					<u> </u>		
1	he application fee for minor or major impact is	s the above	calculated	total or \$40	U, whicheve	er is greater =	\$

NHDES-W-06-012

	3 - PROJECT CLASSIFICATION (Entre project classification.	v-Wt 306.05)	-			
Minimu	ım Impact Project	Minor Project	Major Project	,,,,,,,,,,		
SECTION 14	4 - REQUIRED CERTIFICATIONS (E	nv-Wt 311.11)				
Initial each	box below to certify:					
Initials:	To the best of the signer's knowle	dge and belief, all require	d notifications have been provide	d.		
Initials:	The information submitted on or v signer's knowledge and belief.	with the application is tru	e, complete, and not misleading to	o the best of the		
Initials: $\mathcal{B} \mathcal{Q}$	 The signer understands that: The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: Deny the application. Revoke any approval that is granted based on the information. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. 					
Initials:	If the applicant is not the owner of the signer that he or she is aware o	f the property, each property, each property of the application being fi	erty owner signature shall constitu led and does not object to the filir	Ite certification by		
SECTION 15	- REQUIRED SIGNATURES (Env-V	Vt 311.04(d); Env-Wt 31	1.11)			
SIGNATURE	OWNER):	PRINT NAME LEGI	BLY: VOGEL	DATE: 10/31/24		
SIGNATURE	APPLICANT, IF DIFFERENT FROM OW	NER): PRINT NAME LEGI	BLY:	DATE:		
SIGNATURE (AGENT, IF ADAVICABLE):	PRINT NAME LEGI Brendan Qu	BLY: Jigley, Gove Env. Srvs. Inc	DATE: 10/31/24		
SECTION 1	6 - TOWN / CITY CLERK SIGNATUR					
	by RSA 482-A:3, I(a)(1), I hereby			, four detailed		
	four USGS location maps with the / CLERK SIGNATURE:	town/city indicated belo	PRINT NAME LEGIBLY:			
TOWN/CITY	<i>/:</i>		DATE:			



STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION ATTACHMENT A: MINOR AND MAJOR PROJECTS Water Division/Land Resources Management Wetlands Bureau



Check the Status of your Application

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

APPLICANT'S NAME: RiverWoods Co. at Exeter TOWN NAME: Exeter

Attachment A is required for *all minor and major projects*, and must be completed *in addition* to the <u>Avoidance and</u> <u>Minimization Narrative</u> or <u>Checklist</u> that is required by Env-Wt 307.11.

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

PART I: AVOIDANCE AND MINIMIZATION

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

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

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

ALTHOUGH LARGE, THE RIVERWOODS PROPERTY IS ALMOST ENTIRELY CONSTRAINED BY EXISTING CONSERVATION EASEMENTS WHICH EXTEND UP TO THE LIMITS OF THE THREE CAMPUS AREAS. THE CAMPUSES ARE ALSO COMPACT AND DENSELY DEVELOPED, RESULTING IN VERY LITTLE OPPORTUNITY FOR EXPANSION. THE PROPOSED LOCATION FOR THE PROJECT IS CURRENTLY OCCUPIED BY A SMALL ADMINISTRATION BUILDING AND A MAINTENANCE AREA, BOTH OF WHICH CAN BE RELOCATED. THIS IS THE ONLY LOCATION ON THE PROPERTY WHERE THE PROJECT CAN BE CONSTRUCTED. SEVERAL ADDITIONAL CONSTRAINTS AT THE PROPOSED LOCATION SIGNIFICANTLY LIMIT THE AREA WHICH CAN BE USED FOR THE PROJECT. TOWN OF EXETER ZONING REQUIRES A 100-FOOT SETBACK FROM THE PROPERTY LINES PREVENTING FURTHER UTILIZATION OF UPLAND IN THE VICINITY. THE APPLICANT WAS UNSUCCESSFUL IN OBTAINING A VARIANCE FROM THIS ZONING REQUIREMENT. THE SECOND SIGNIFICANT CONSTRAINT IS THE PRESENCE OF A GAS TRANSMISSION MAIN. ONLY LIMITED AREAS OF PAVEMENT AND NO PART OF THE BUILDING CAN BE PLACED OVER THE GAS MAIN.

THE GOAL OF THE PROJECT IS TO CONSOLIDATE THE HEALTHCARE SERVICES CURRENTLY SPREAD ACROSS THE THREE RIVERWOODS CAMPUSES INTO A STATE-OF-THE-ART FACILITY. THE PROPOSED DESIGN MUST THEREFORE BE SIZED TO ACCOMMODATE THE EXISTING SERVICES AND BE DESIGNED TO MEET MODERN TECHNICAL STANDARDS FOR THIS TYPE OF FACILITY. AS DESCRIBED ELSEWHERE IN THIS APPLICATION THE DESIGN INCORPORATES A NUMBER OF AVOIDANCE AND MINIMIZATION PRACTICES TO ACCOMPLISH THE PROJECT GOALS WITH AS LITTLE WETLAND IMPACT AS POSSIBLE. THEREFORE, DUE TO THE LACK OF ALTERNATIVE LOCATIONS ON THE PROPERTY, THE CONSTRAINTS PRESENT AT THE PROPOSED LOCATION, AND PROJECT DESIGN REQUIREMENTS, THERE IS NO PRACTICABLE ALTERNATIVE TO THE PROPOSED PROJECT WITH LESS WETLAND IMPACT.

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

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

There is no tidal or freshwater marsh in the project area.

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

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

There are no stream channels in the proposed impact areas. The wetlands are connected by small culverts and drain west to east across the site. This drainage pattern will be maintained in the drainage design by providing connection to the remaining wetland west of Impact Area #1 and directing flow, along with treated stormwater, east and downstream beyond Impact Area #4. This will maintain hydrologic connections, current dranage pattern, and downstream flow.

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

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

As described in Section 1.1 of this form, there are no practicable alternatives to the proposed location for the project and alternative layouts are further limited by the site constraints and project design requirements. The project area is largely developed or otherwise altered, and the wetlands in this area are generally of lower value in contrast to the extensive wetland systems elsewhere on the property. There are no fisheries, exemplary natural communities, or vernal pools in the project area. The location of the project therefore avoids potentially greater impacts to functions and values were the project to be constructed elsewhere. The project includes a number of design elements to minimize impacts to wetlands and wetland function:

The building has been designed with multiple stories and includes an underground parking garage within the building footprint.

The stormwater management system makes use of under-pavement treatment and storage to limit the footprint of the development and the latest treatment technologies

Structures and pavement associated with the former single family residence on the eastern side of the site will be removed and restored to meadow conditions thus revegetating wetland buffer areas

A retaining wall has been used at Impact Area #4 to limit the impact that would be necessary for grading.

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

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

The project will not impact navigable waters, nor will it directly involve elements of public commerce or recreation as they relate to wetland resource areas.

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

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

The project will not impact the floodplain or floodplain wetlands

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

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

There are no riverine forested wetland systems or scrub shrub marsh complexes associated with the site.

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

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

The project is not wihtin an aquifer area and the proposed impacts will not segment wetlands or disrupt flow paths such that groundwater may be affected. Stornwater will be treated and infiltrated in accordance with AOT regulations.

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

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

The project does not impact streams directly nor does it propose wetland crossings which could negatively affect stream channels outside the impact area. The stormwater management system will ensure that runoff from the development does not adversely affect downstream flows.

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

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

N/A, the project does not involve surface water or shoreline structures

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

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

N/A, the project does not involve surface water or shoreline structures

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

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

N/A, the project does not involve surface water or shoreline structures

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

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

N/A, the project does not involve surface water or shoreline structures

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

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

N/A, the project does not involve surface water or shoreline structures

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

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

N/A, the project does not involve surface water or shoreline structures

PART II: FUNCTIONAL ASSESSMENT

REQUIREMENTS

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

FUNCTIONAL ASSESSMENT METHOD USED:

ACOE Highway Methodology,

(see attached Wetland Deleineation Report & Functional Assesment)

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

DATE OF ASSESSMENT: 10/17/24

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

For minor or major projects requiring a standard permit without mitigation, the applicant shall submit a wetland evaluation report that includes completed checklists and information demonstrating the RELATIVE FUNCTIONS AND VALUES OF EACH WETLAND EVALUATED. Check this box to confirm that the application includes this information, if applicable:

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



AVOIDANCE AND MINIMIZATION WRITTEN NARRATIVE Water Division/Land Resources Management Wetlands Bureau <u>Check the Status of your Application</u>



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

APPLICANT'S NAME: RiverWoods Co. at Exeter

TOWN NAME: Exeter

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

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

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

NO

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

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

NO

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

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

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

N/A, Impacts are under 1 acre

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

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

The lack of alternative locations and layout adjustment is documented in Section 1.1 of form "Attachment A". The project follows and incorporates the following principles of Avoidance and Minimization to minimize unavoidable impacts:

An already developed and altered area is being utilized for the project

The building includes multiple stories and underground parking within the building footprint

The stormwater management system utilizes under-pavement treatment and storage

The stormwater management system utilizes the latest technology including bio-retention basins and porous pavement

A retaining wall is used at Impact Area #4 to minimize grading impact

Currently developed upland areas in close proximity to wetlands which cannot be utilized for the project due to property line setbacks will be restored.

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

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

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

The functional assessment indicates that the most valuable wetland in the project area is the wetland which carries the flow of Scaman Brook under White Oak Drive and is connected to extensive wetland areas on each side of the road (Wetland E in functional assessment report). This wetland will not be impacted by the project. Impact areas #1, #2, and #3, which constitute the majority of the proposed impact, are relatively low functioning wetlands largely isolated by and close to existing development. The wetland where Impact Area #4 is located is comparatively more valuable than the other three wetland because of its connectivity to larger contiguous wetland. The impact at this location is very small at only 776 square feet. The proposed design therefore conforms to Env-Wt 311.10(c).

A waiver has been requested from Env-Wt 306.05(a)(1) & 311.03(b)(10) relative to delineation and assessment of the rest of the wetlands on the 204 acre property. This request is based on the fact that most of these wetlands are located in existing conservation easements which cannot be utilized for the project. The extent of wetland in the existing conservation easement areas is well known however, as is their value which is elevated by their protected status. The wetlands evaluated in the project area are all lower value in comparison these large permanently protected wetland systems. Therefore, even though the easement areas cannot be utilized, the project conforms to Env-Wt 311.10(c).



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



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

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

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

SECTION 1 - PROJECT LOCATION INFORMATION (Env-Wt 204.03(c))				
ADDRESS: 5 White Oak Drive	TOWN/CITY: Exeter		STATE: NH	ZIP CODE: 03833
TAX MAP/LOT NUMBER: Map 97 Lot 23				
SECTION 2 - WAIVER REQUESTOR INFORMATION (Env-Wt 204.03(a))				
LAST NAME, FIRST NAME, M.I.: Quigley, BrebndanGove Environmental Services Inc				
MAILING ADDRESS: 8 Continental Drive, Bldg 2, Unit H				
TOWN/CITY: Exeter			STATE: NH	ZIP CODE: 03833
EMAIL ADDRESS (if available): bquigley@gesinc.biz		DAYTIME TELEPHONE NUMBER: 603-778-		
or if not FAX NUMBER:		0644		
SECTION 3 - APPLICANT INFORMATION (Env-Wt 204.03(b)) If request is being made on behalf of someone else, include the following information regarding the person being represented. If requestor is the applicant, check the following box and proceed to Section 4.				
LAST NAME, FIRST NAME, M.I.: RiverWoods Company at Exeter c/oJustine Vogel				
MAILING ADDRESS: 7 White Oak Drive				
TOWN/CITY: Exeter			STATE: NH	ZIP CODE: 03833
EMAIL ADDRESS (if available): jvogel@trwg.org DAYTIME PHONE NUME or if not FAX NUMBER: DAYTIME PHONE NUME		NE NUMBER	603.658.3005	

Irm@des.nh.gov or (603) 271-2147 NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095 www.des.nh.gov

SECTION 4 - WAIVER INFORMATION

SECTION 4A - WAIVER TO RULE Env-Wt 100-900

N/A - If you are not requesting a rule waiver, check this box and proceed to Section 4b

Provide the number of the specific section of each rule for which a waiver is sought (Env-Wt 204.03(d)): Env-Wt 306.05(a)(1) & 311.03(b)(10)

Provide a complete explanation of why a waiver is being requested, including an explanation of the operational and economic consequences of complying with the requirement and, if the requested waiver would extend the duration of a permit, the reason(s) why the permit holder was not able to complete the project within the specified time (Env-Wt 204.03(f)(1)):

The applicant is seeking relief from 306.05(a)(1) regarding the complete delineation of jurisdictional areas on the subject property. The proposed project is located on less than 5 acres of single approximately 205 acre lot containing the three RiverWoods supportive living campuses. The campus living areas are compact and densely developed with the remainder of the property, totaling over 127 acres, being subject to formal conservation easements (see attached figure). The proposed location on White Oak Drive is therefore the only feasible location for the project. The requirement to delineate and survey wetlands in the campus areas and within the conservation easements, neither of which can be utilized, would cause significant financial burden and project delay. The applicant is also seeking relief from 311.10 regarding the functional assessment of all the wetlands on the property for the same reasons. Granting the waivers will not result in a permit extension.

If applicable, provide a complete explanation of the alternative that is proposed to be substituted for the requirement in Env-Wt, including written documentation or data, or both, to support the alternative (Env-Wt 204.03(g)):

The wetlands in the project area have been delineated, surveyed, and assessed in accordance with the relevant rules. As an alternative to delineating and assessing all the wetlands on the property the applicant proposes the use of record delineation information and documentation of the restricted easement areas.

SECTION 4B - DWELLING OVER WATERS WAIVER UNDER RSA 482-A:26, III(b).

N/A - If you are not requesting a standard waiver, check this box and proceed to Section 5)

Identify the specific standard to which a waiver is being requested (Env-Wt 204.03(e)): RSA 482-A:

NHDES-W-06-083

statutory crit	nplete explanation of why a waiver is being requested, including a complete explanation of how the eria of RSA 482-A:26, III(b) will be met (Env-Wt 204.03(f)(2)):
SECTION 5 - (applicable to	ADDITIONAL WAIVER INFORMATION (Env-Wt 204.03(h); Env-Wt 204.03(i)) Waivers of Rules and Standards under RSA 482-A:26, III(b))
Indicate whet be needed (Ei	her the waiver is needed for a limited duration and, if so, an estimate of when the waiver will no longer nv-Wt 204.03(h)):
The waiver wi permit applica proposed pro	II be needed for the duration of this permit application process. Any additional work requiring a wetland ation will need to either pursue an additional waiver or meet the requirements related to the scope of the iect.
Proposed pro	
Provide a com Env-Wt 204.0	plete explanation of why the applicant believes that having the waiver granted will meet the criteria in 5 or 204.06, as applicable (Env-Wt 204.03(i)):
The intent of I	rules from which a waiver is being requested relate to the evaluation of alternatives available to the
property is ap	may have less direct wetland impact or less impact to wetland functions and values. The RiverWoods proximately 205 acres but more than 60% of this area is subject to permanent conservation easements t any development. Nearly all the remaining area on the property is occupied by existing densiy
developed res	ident facilities. The conservation easement areas also contain extensive high value wetland systems and resources which the easements are intended to protect, and which are elevated in value by that
protection. Co	mplying with the rule would not further inform alternatives because the value of the wetlands in the
of Env-Wt 306	as is well known and they cannot be used for the project anyway. The request to waive the requirements .05(a)(1) & 311.03(b)(10) will not therefore result in any adverse avoidable impacts to natural resources
of the state, o the rule.	r abutting properties that would be more significant than that which would result from complying with
and the other states and the second	REQUIRED CERTIFICATIONS (Env-Wt 204.04)
alization and in the spectra of the spectra of the	x and sign below to certify:
Initials:	The information provided is true, complete, and not misleading to the knowledge and belief of the signer.
	1
	<u>lrm@des.nh.gov</u> or (603) 271-2147
	NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095 www.des.nh.gov

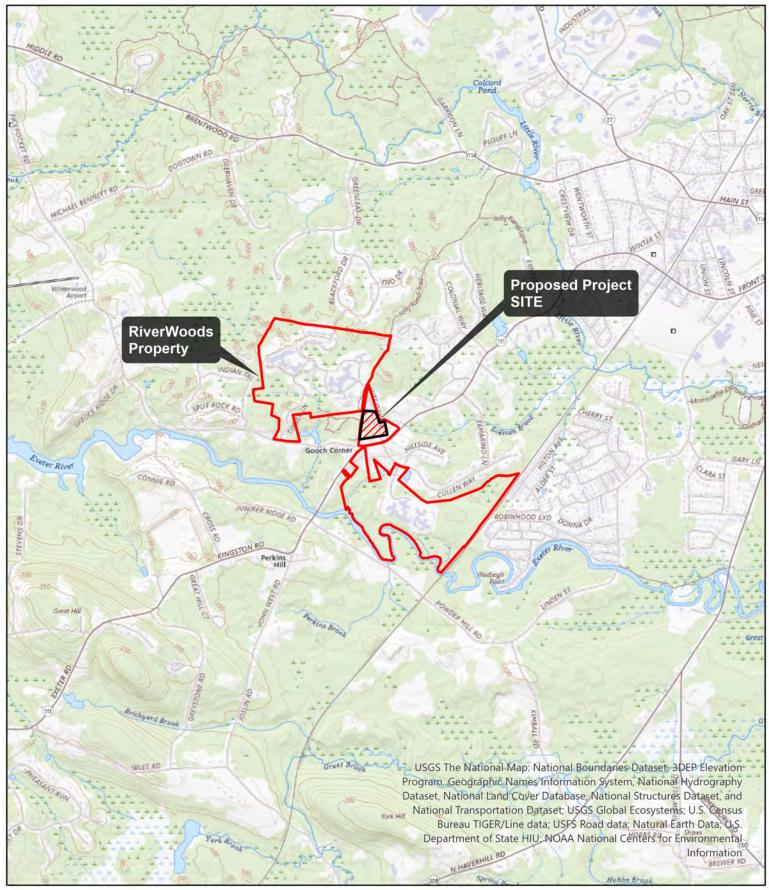
NHDES-W-06-083

Initials: Any waiver granted based on false, incomplete, or misleading information shall be subject to revocation; and He or she is subject to the penalties for falsification in official matters, currently established in RSA 641.			
SECTION 7 -	REQUESTOR SIGNATURE (Env-	Wt 204.04)	
SIGNATURE (A	APPLICANT): *	PRINT NAME LEGIBLY: JUSTINE VOGEL, CED	DATE: 10/31/24
(SIGNATURE (REQUESTOR):		PRINT NAME LEGIBLY: Brendan Quigley, Gove Env. Srvs	DATE: 10/31/24

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

Figures





1:24,000

Locus Map RiverWoods 5 White Oak Drive Exeter, NH



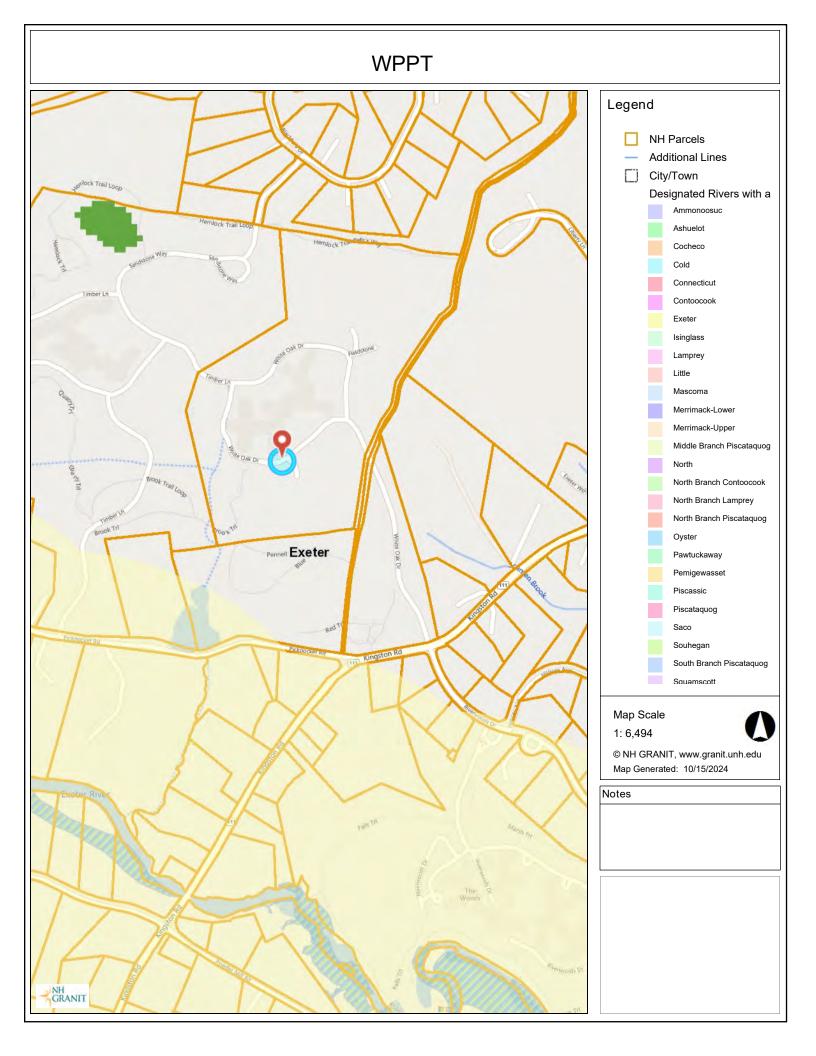


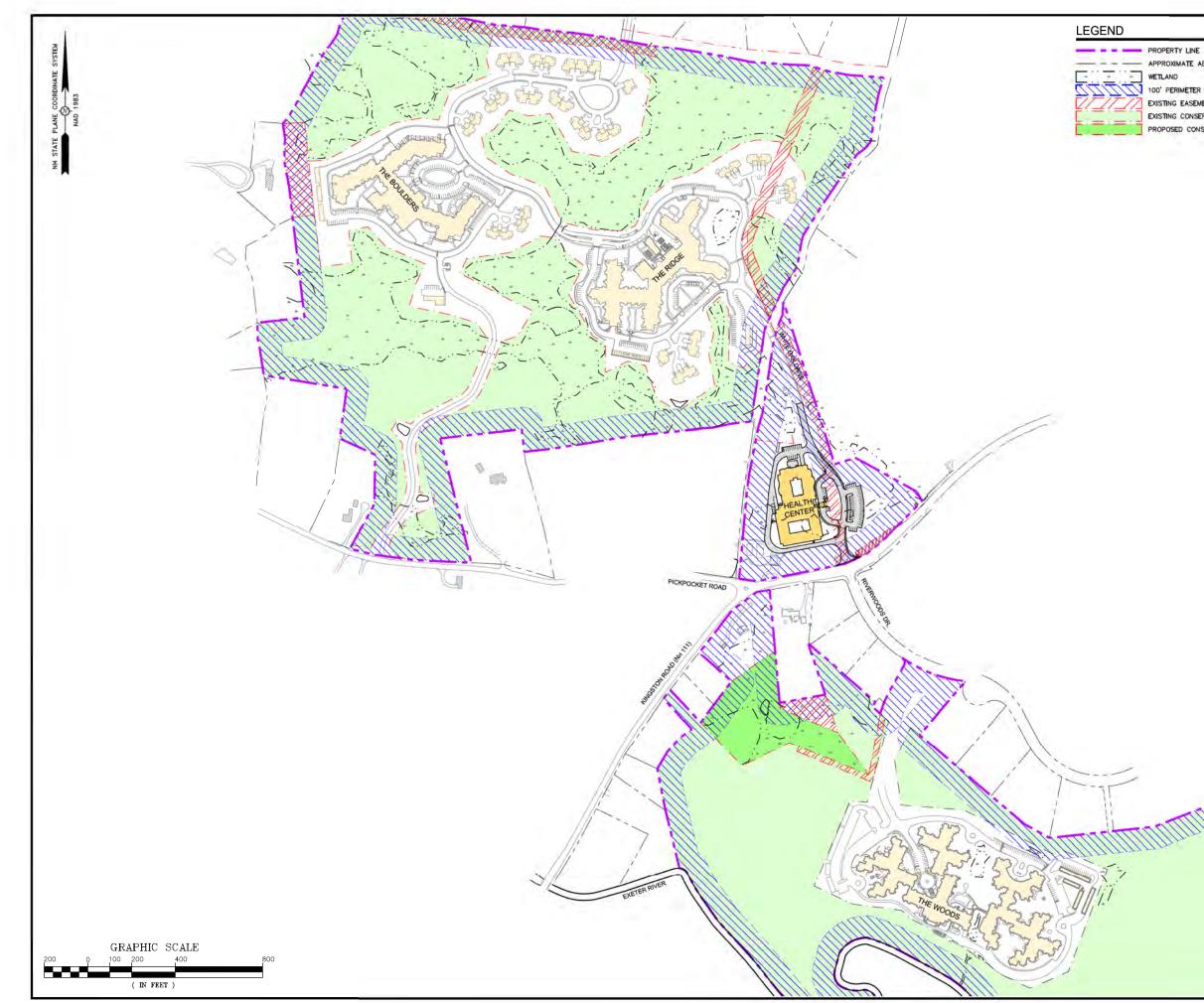


2022 Aerial Photo

RiverWoods 5 White Oak Drive Exeter, NH

Continental Drive Bidg 2 Unit H Exeter NH 03833 603.778.044 G



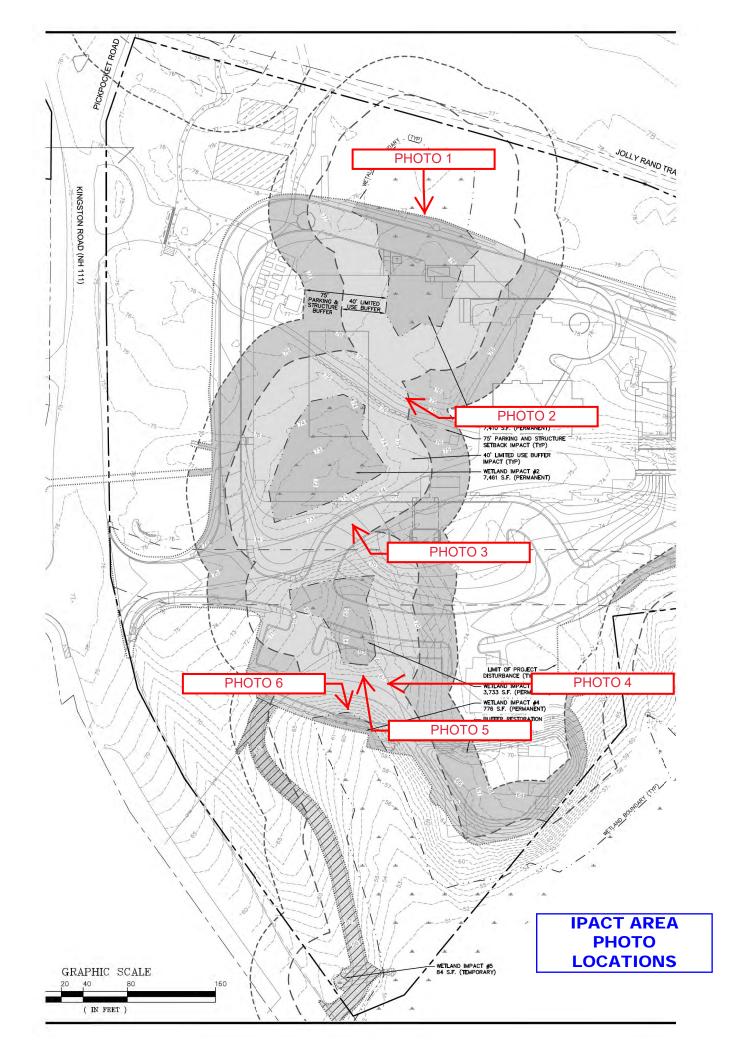


ALTUS APPROXIMATE ABUTTING PROPERTY LINE WETLAND ENGINE 100' PERIMETER BUFFER EXISTING EASEMENT AREA 133 Court Street (603) 433-2335 Portsmouth, NII 03801 EXISTING CONSERVATION EASEMENT AREA PROPOSED CONSERVATION EASEMENT AREA NOT FOR CONSTRUCTION ISSUED FOR: SUBMISSION ISSUE DATE: OCTOBER 9, 2024 REVISIONS NO. DESCRIPTION 0 CONCEPTUAL BY DATE EBS 10/09/24 DRAWN BY:_ EBS APPROVED BY: EBS 5015–SITE.dwg DRAWING FILE:_ SCALE: 24" x 36" - 1" = 200' 11" x 17" - 1" = NTS OWNER: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 APPLICANT: RIVERWOODS COMPANY AT EXETER 7 RIVERWOODS DRIVE EXETER, NH 03833 PROJECT: RIVERWOODS SUPPORTIVE LIVING HEATH CENTER TAX MAP 97 LOT 23 5 WHITE OAK DRIVE EXETER, NH 03833 TITLE: OVERALL CAMPUS EXHIBIT SHEET NUMBER: EXH-1

Attachment A

Impact Area Photos





Wetland Impact Photos Riverwoods Supportive Living Health Center 5 White Oak Drive Exeter, NH



Photo 1—Wetland A



Photo 2—Trail between Wetlands A and B (A to right, B to the left)

Wetland Impact Photos Riverwoods Supportive Living Health Center 5 White Oak Drive Exeter, NH



Photo 3—Wetland B



Photo 4—Driveway between Wetlands C and D (C to right, D to the left)

Wetland Impact Photos Riverwoods Supportive Living Health Center 5 White Oak Drive Exeter, NH



Photo 5—Wetland C



Photo 6—Wetland D

Attachment B

Abutter Information



DIRECT ABUTTER LIST WITHIN 1/4 MILE OF PROPOSED PROJECT

SITE:

<u>Map-Lot</u>	<u>Owner</u>
97-23	Riverwoods Company at Exeter 7 Riverwoods Drive Exeter, NH 03833

ABUTTERS:

<u>Map-Lot</u>	<u>Owner</u>
98-39	Dennis & Cheryl Hayward, Trustees 9 Pickpocket Road Exeter, NH 03833
97-41	Southeast Land Trust 247 North River Road Epping, NH 03042
97-45	Ruth Hooten, Trustee Ruth Hooten Revocable Trust 61 Kingston Road Exeter, NH 03833
80-6	Marshall Farms Crossing Condominium 163 Main Street, Suite 201 Salem, NH 03079
97-20	James & Virginia Harnett 13 Cullen Way Exeter, NH 03833
97-21	Shivan Sarna David Desrosiers 11 Cullen Way Exeter, NH 03833
97-22	Christopher & Courtney Benevides 9 Cullen Way Exeter, NH 03833
1	

97-24	Town of Exeter
	10 Front Street
	Exeter, NH 03833
97-25	Glenn Theodore
	5 Riverwoods Drive
	Exeter, NH 03833
97-26	Susan & Daniel Sarmiento
	Sarmiento Family Trust
	3 Riverwoods Drive
	Exeter, NH 03833
97-27	Portland Natural Gas
	c/o Duff & Phelps
	PO Box 2629
	Addison, TX 75001
97-28	Grant & Carol Murray
	74 Kingston Road
	Exeter, NH 03833
97-30	Joseph & Marlene Fitzpatrick
	82 Kingston Road
	Exeter, NH 03833
97-31	Altie Bird, Trustee
	Altie Bird Rev. Trust
	84 Kingston Road
	Exeter, NH 03833
97-32	Lauren Drinker
	88 Kingston Road
	Exeter, NH 03833
97-33	Christian Burns
	90 Kingston Road
	Exeter, NH 03833
97-34	Keely Rose McElwain
	92 Kingston Road
	Exeter, NH 03833

<<DATE>>

«Name» «Street» «TownStateZip»

Re: RiverWoods Exeter 5 White Oak Drive Exeter, NH

Dear Abutter:

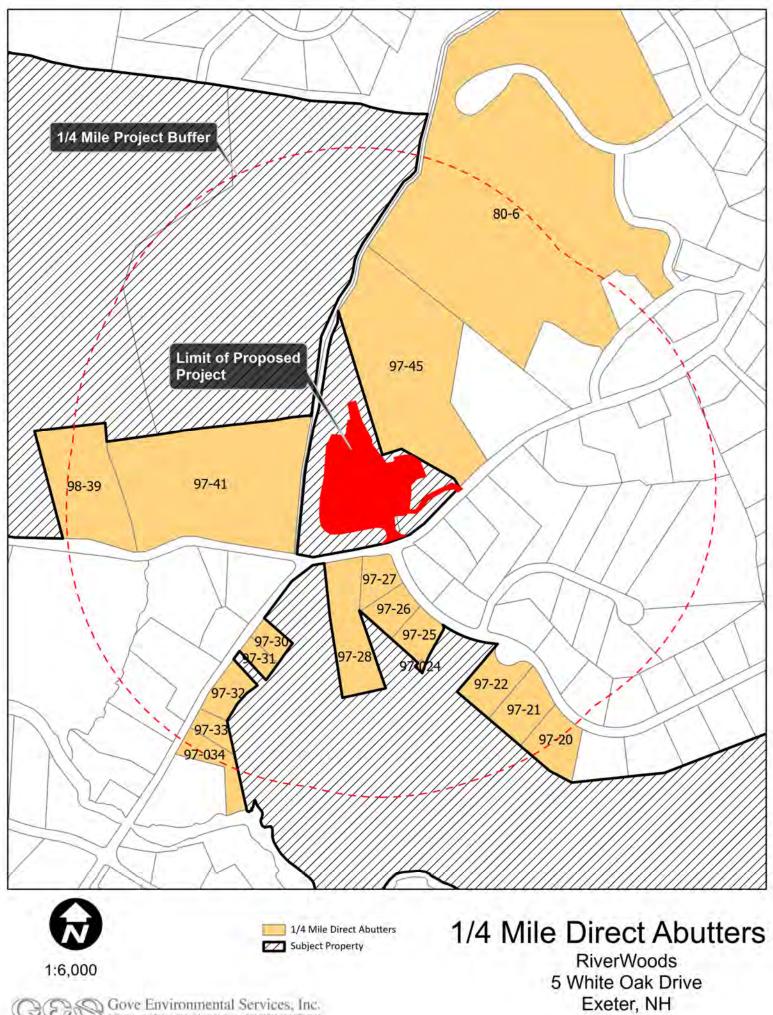
The purpose of this letter is to inform you that the RiverWoods Company at Exeter has submitted a Dredge and Fill Application to the NH Department of Environmental Services (NHDES) for 19,464 square feet of wetland impact associated with the construction of a Supportive Living Health Center at 5 White Oak Drive in Exeter, NH. After filing, a copy of the final application, including plans, will be made available for your review at the Exeter Town Hall and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive, in Concord.

If you have any questions that we might be able to answer, please feel free to contact our office.

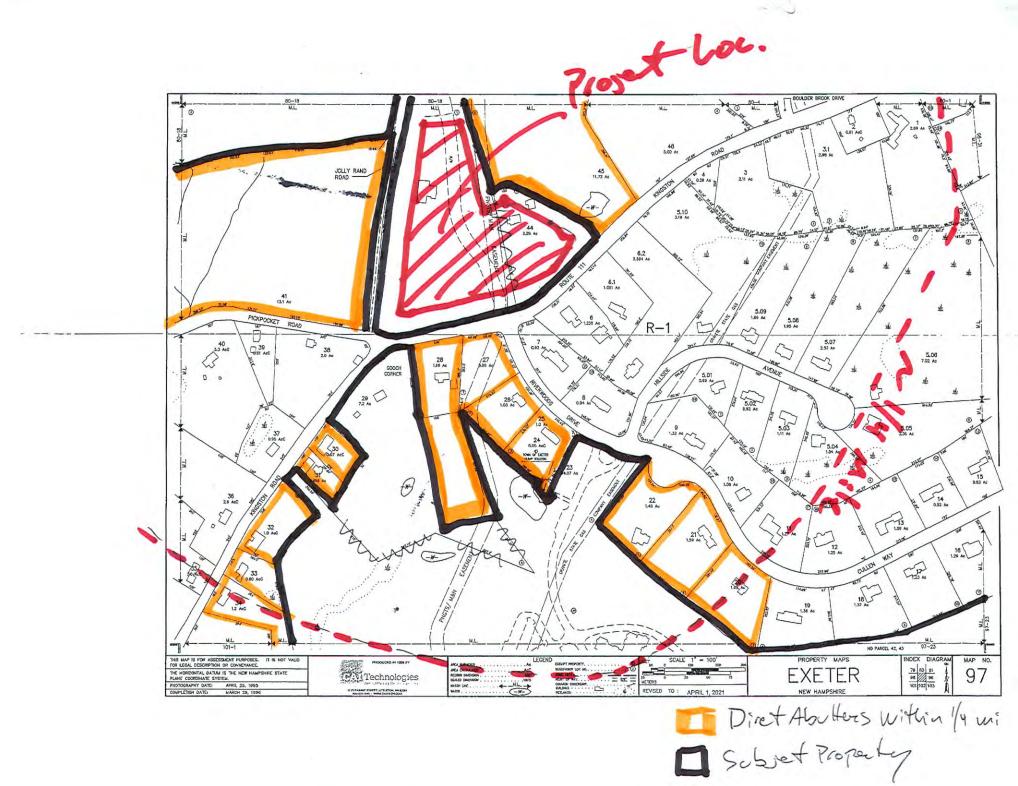
Sincerely,

Brenden Ching

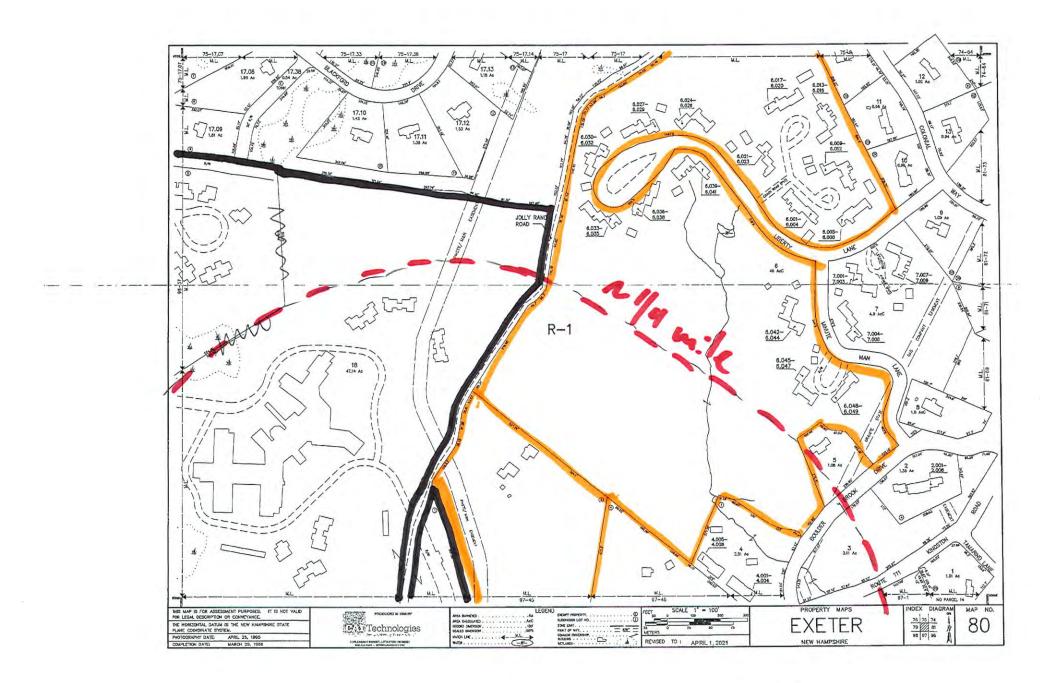
Brendan Quigley, CWS Gove Environmental Services, Inc.

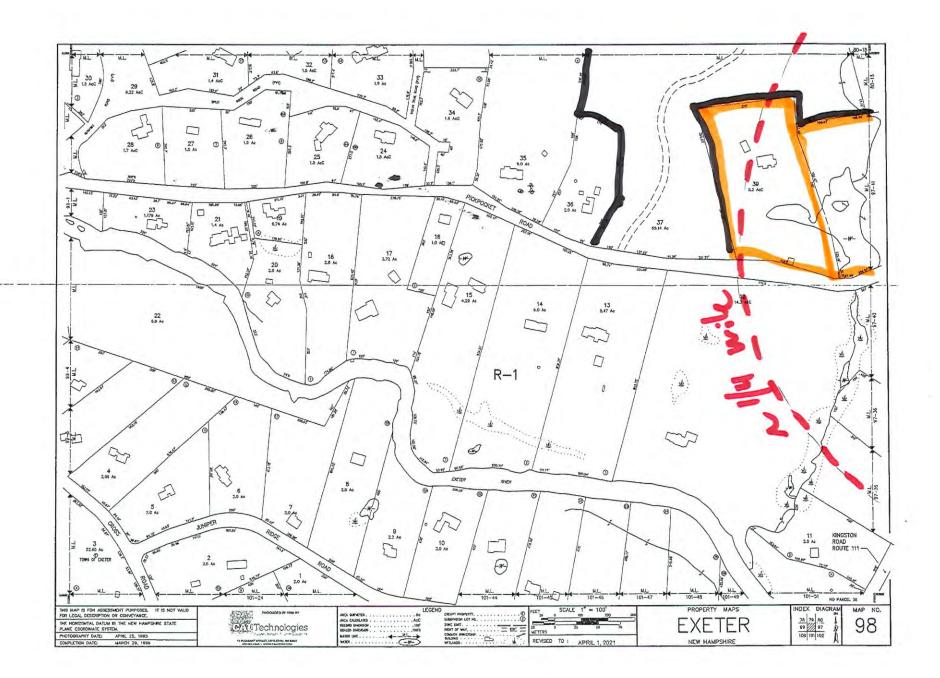


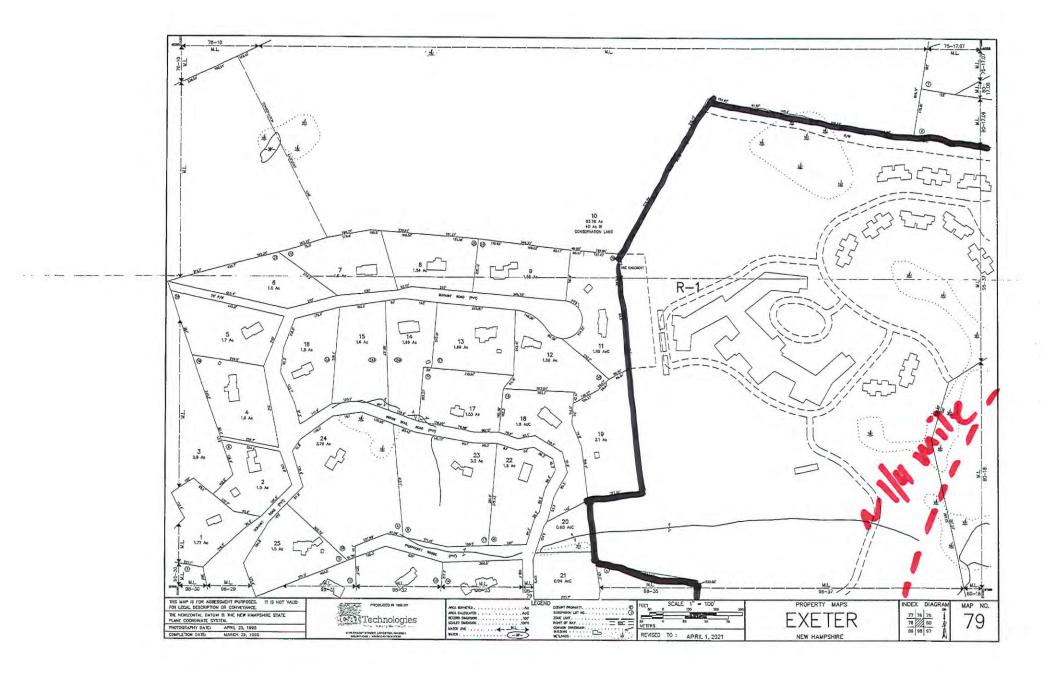
Gove Environmental Services, Inc.



3.90







Attachment C

Wetland Delineation & Assessment Report





GOVE ENVIRONMENTAL SERVICES, INC

WETLAND DELINEATION REPORT & FUNCTIONAL ASSESSMENT

Riverwoods Supportive Living Health Center 5 White Oak Drive Exeter, NH October 17, 2024

1.0 INTRODUCTION

This wetland report is being submitted in connection with the proposed development of a Supportive Living Health Center at 5 White Oak Drive on the Riverwoods campus in Exeter, NH. The following sections provide an overview of the delineation process and description of the identified wetland resources associated with the property. The report also includes a function assessment of the wetlands and discussion of their value relative to one another. A figure showing the different areas discussed in this report and the functional assessment data forms have been attached following the text.

2.0 WETLAND DELINEATION

Resource areas on this property were delineated in January of 2023 by Brendan Quigley, NHCWS #249 utilizing the following standards:

- 1. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, (Version 2.0) January 2012, U.S. Army Corps of Engineers.
- 2. *Field Indicators of Hydric Soils in the United States, A Guide for Identifying and Delineating Hydric Soils,* Version 8.2. United States Department of Agriculture (2018).
- 3. 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.
- 4. National Wetland Plant List, Version 3.2 (2016).

Wetland boundaries were surveyed by James Vera & Associates, Inc. and are depicted on the plans submitted separately with the Dredge & Fill Application. For the purpose of discussion, the identified wetland areas and have been given unique designations as depicted on the attached figure. Six (6) areas of wetland were identified in the project area:

Wetlands A, B, & C

These three areas consist of three small pockets of wetland in close proximity to the existing administration building, White Oak Drive, and related developed areas. They are largely isolated from one another but are connected via small culverts and drain east to Wetland D and ultimately Scamen Brook. All three areas are predominantly forested wetland dominated by red maple, and sensitive fern but are densely vegetated with invasive woody species such as common and glossy buckthorn, oriental bittersweet, bush honeysuckle, and autumn olive. Generally, this type of growth is characteristic of long fallow fields and areas around old farms

Wetland D

Wetland D is very similar to Wetlands A through C but differs in that it forested is also densely vegetated with invasive woody species, and is located in close proximity to development. It differs however, because it is a

narrow extension of the larger wetland system associated with Scamen Brook, located mostly off-site to the east (Wetland E2) and is therefore more broadly connected to other wetlands.

Wetland E1 & E2

Wetland E constitutes the headwaters of Scamen Brook. The main body of the wetland on the site (E1) is a more natural forested wetland dominated by red maple. A portion of this wetland is supported by hillside seep hydrology and extends up the hill south of the wetland and toward the proposed project. The wetland drains east and under White Oak Drive through pair of 18" culverts where it emerges as Wetland E2. This small area of the wetland is somewhat disturbed, most likely from the construction of the gas line which runs below the wetland and by the crossing of White Oak Drive. It continues off-site to a larger forest and scrub shrub wetland through which Scaman Brook flows in a southeast direction.

4.0 FUNCTION &VALUE ASSESSMENT

A wetland function and value 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 and 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 does not 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.
- **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 functions and values identified in the wetlands are described in the following sections.

Wetlands A, B, C

The principal functions of these three wetlands were determined to be Sediment/Toxicant/Pathogen Retention and Flood flow Alteration. The water quality and flood flow alteration functions are supported due to their location upstream of Scamen Brook and their restricted flow path. This restricted flow is mainly the result of segmentation but does enable treatment and flood attenuation by storing runoff and slowly releasing it downstream. These functions are supported at a modest level due to the overall small size of the wetlands and limited development within their watershed. These wetlands also support general Wildlife Habitat, mostly by way of dense cover favored by small mammals. Since these wetlands lack surface hydrology they do not support wetland specific wildlife habitat and this has only been considered a secondary function. The proximity of development also greatly limits their habitat value overall.

Wetland D

The principal functions of Wetland D determined were to be Sediment/Toxicant/Pathogen Retention and Wildlife Habitat. The wildlife habitat value of the wetland is higher than Areas A-C owing to its direct connection to the larger wetland system associated with Scaman Brook and wetland specific wildlife habitat. The water quality functions are supported by dense vegetation and convoluted flow path but not by flow restriction as in is the case in Wetlands A-C. The unimpeded flow also reduces the storage capacity and therefore the flood attenuation function in this area.

Wetland E

Sediment/Toxicant/Pathogen Retention, Nutrient Transformation, and Wildlife Habitat were determined to be the principal functions of Wetland E. These are derived from its more significant surface hydrology, closer association with Scamen Brook, and connectivity to larger forested wetland habitat to the west. These attributes enhance the wildlife and Water quality function of the wetland in comparison to wetlands A, B, C, & D. Flood flow alteration was not considered a function of Wetland E since very little storage capacity was noted. Groundwater discharge has also been considered as a secondary function as evidenced by the hillside seep along its southern slope.

5.0 RELATIVE FUNCTION & VALUE OF THE WETLANDS

As a conclusion to this report this section provides a discussion of the functional significance of the wetlands relative to one another. The primary purpose of this comparison is to support project design decisions and to satisfy permit requirements relative to avoidance and minimization of wetland impacts proposed by the project.

Wetlands E1 and E2 stand out as the most valuable wetlands on the site because of their direct association with Scaman Brook and more natural character overall. Since these and other wetlands immediately upstream constitute the headwaters of Scaman Brook they have the greatest potential to influence conditions in the waterway such as water quality and flooding. Despite the crossing of White Oak Drive, the quality of wetland habitat support in the wetland is significantly better than Wetlands A through D.

Wetlands D is the next most valuable wetland. This area supports important water quality functions upstream of Scaman Brook and comparatively greater wildlife habitat than Wetlands A through C because of its unrestricted connection to a larger wetland system.

Wetlands A through C are the least valuable wetlands areas on the site. Although these areas also drain toward Scaman Brook and support both water quality and flood attenuation function Their habitat value is limited by the fact that is largely not wetland specific and also surrounded by developed or maintained land. Flood attenuation function is also enabled by segmentation and restricted flow which is otherwise a limiting factor for wetland function.

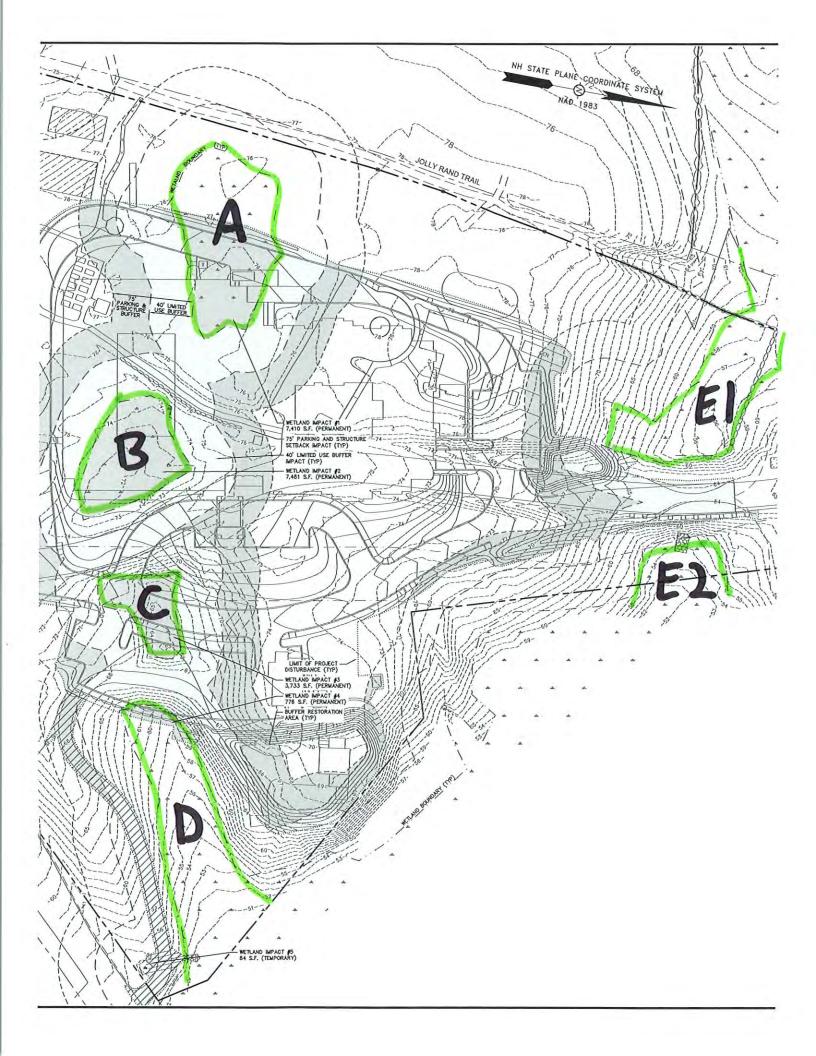
This concludes the wetland delineation report for this site. If I can be of further assistance, please feel free to contact me at (603) 778-0644.

Sincerely,

Brendan Quigley, NHCWS Gove Environmental Services, Inc.

Enc: Wetland Areas Sketch Functional Assessment Forms





Wetland Function-Value Evaluation Form

				Wetland I.D. Wetland A, B, & C
Total area of wetland <u>~25000 SF</u> Human made? <u>NO</u>	Is wetla	and part of a wildlife corrido	r? NO	or a "habitat island"? YES Latitude Longitude
Adjacent land use Residential Rural		Distance to nearest	roadway o	or other development 0-feet Prepared by: BJQ Date 10/17/24
Dominant wetland systems present PFO1C		Contiguous undeve	eloped buf	fer zone present NO Wetland Impact: Type FILL
Is the wetland a separate hydraulic system? no	If n	ot, where does the wetland l	ie in the dr	rainage basin? mid Evaluation based on:
How many tributaries contribute to the wetland?	one	Wildlife & vegetation diver		lance (see attached list) Office X Field X Corps manual wetland delineation completed? Y^{\times} N
Function/Value	Suitabilit Y / N	y Rationale (Reference #)*	Princi Funct	ipal ion(s)/Value(s) Comments
Groundwater Recharge/Discharge	Y	10	3 1 4	poorly drained soils indicative of perched GW
Floodflow Alteration	Y	5,7,8,9,15,18	Х	storage capacity by way of restricted outlets
Fish and Shellfish Habitat	Ν			no permanent surface water
Sediment/Toxicant Retention	Y	1,2,3,4,5,6,7	Х	receives drainage from adj development, dense vegetation, constricted outlet
Nutrient Removal	Y	3,4,5,7,8		minimal transformation due to lack of surface water and emergent veg
Production Export	Ν			low diversity, small, largely isolated
Sediment/Shoreline Stabilization	Ν			no surface water or shoreline
🖢 Wildlife Habitat	Y	13,20		limited by size and fragmentation, suitable for songbirds and sm mammal, not wetland specific
A Recreation	Ν			aesthetic value as open space, no recreational opportunity
Educational/Scientific Value	Ν			common wetland type in developed area
🛨 Uniqueness/Heritage	Ν			common wetland type in developed area
Visual Quality/Aesthetics	Y			aesthetic value as open space,
ES Endangered Species Habitat	Ν			none identified in area by NHB, developed area
Other				

Wetland Function-Value Evaluation Form

-16 000 SE			VES	Wetland I.D. Wetland D
Total area of wetland <u>~^{16,000 SF}</u> Human made? <u>no</u>	Is wetla	and part of a wildlife corridor	r?_1ES	
Adjacent land use Residential Rural		Distance to nearest n	roadway o	r other development O-feet Prepared by: BJQ Date 10/17/24
Dominant wetland systems present PFO1C		Contiguous undeve	loped buff	fer zone present NO Wetland Impact: Type Fill Impact #4 Area 776 SF
Is the wetland a separate hydraulic system? no	If n	ot, where does the wetland li	ie in the dr	rainage basin? mid Evaluation based on:
How many tributaries contribute to the wetland?	one	Wildlife & vegetation divers		
Function/Value	Suitabilit Y / N	y Rationale (Reference #)*	Princi Funct	pal ion(s)/Value(s) Comments
Groundwater Recharge/Discharge	Y	10	51 144	poorly drained soils indicative of perched GW
Floodflow Alteration	N			limited storage, no constricted outlet, no watercourse
Fish and Shellfish Habitat	N			no permanent surface water
Kediment/Toxicant Retention	Y	1,2,3,4,6,7	Х	receives drainage from adj development, dense vegetation,
Nutrient Removal	Y	3,4,5,7,8		minimal transformation due to lack of surface water and emergent veg
Production Export	Y	1		wildlife food sources, low diversity
Sediment/Shoreline Stabilization	Ν			no surface water or shoreline
🖢 Wildlife Habitat	Y	5,6,7,8,13,20	X	connected to larger wetland system, adjacency brush/farmland
-A Recreation	Ν			aesthetic value as open space, no recreational opportunity
Educational/Scientific Value	Ν			common wetland type in developed area
🛨 Uniqueness/Heritage	Ν			common wetland type in developed area
Visual Quality/Aesthetics	Y			aesthetic value as open space,
ES Endangered Species Habitat	Ν			none identified in area by NHB, developed area
Other				

Wetland Function-Value Evaluation Form

				Wetland I.D. Wetland E
Total area of wetland <u>~25000 SF</u> Human made? <u>no</u>	Is wetla	and part of a wildlife corridor?	10	or a "habitat island"? YES Latitude Longitude
Adjacent land use Commercial Dev,	Distance to nearest roadway or other development 0-feet			or other development 0-feet Prepared by: BJQ Date 10/17/24
Dominant wetland systems present PFO1E		Contiguous undeveloped buffer zone present NO		ffer zone present NO Wetland Impact: Type NONE Area
Is the wetland a separate hydraulic system? no	If n	ot, where does the wetland lie in	the d	rainage basin? mid Evaluation based on:
How many tributaries contribute to the wetland?	lance (see attached list) Office X Field X Corps manual wetland delineation			
Function/Value	Suitabilit Y / N		Princ Funct	ipal tion(s)/Value(s) Comments
Groundwater Recharge/Discharge	Y	13		evidence of hillside seep, primarily hydrology is surface from west
	Y	5,8,9,10,13		associated with stream, limited storage, outlet moderately restricted
Fish and Shellfish Habitat				no permanent surface water
Sediment/Toxicant Retention	Y	1,2,3,4,6,7,10,14,10	бX	receives drainage from adj development, dense vegetation,
Nutrient Removal	Y	3,4,5,7,8,14,13,14,1	sΧ	
Production Export	Y	1		wildlife food sources, low diversity
Sediment/Shoreline Stabilization	Y	14		wooded shoreline of intermittent stream only
🖢 Wildlife Habitat	Y	5,6,7,8,13,20	Х	connected to larger wetland system, mature red maple swamp
-A Recreation	Ν			aesthetic value as open space, no recreational opportunity
Educational/Scientific Value	Ν			common wetland type in developed area
🛨 Uniqueness/Heritage	Ν			common wetland type in developed area
Visual Quality/Aesthetics	Y			aesthetic value as open space,
ES Endangered Species Habitat	N			none identified in area by NHB, developed area
Other				

Attachment D

ACOE Supplemental Information

(Secondary Impacts Checklist, SHPO Inquiry, IPaC Report)





US Army Corps of Engineers ®

of Engineers IIIAppendix BNew England DistrictNew Hampshire General PermitsRequired Information and USACE Section 404Checklist

USACE Section 404 Checklist

- 1. Attach any explanations to this checklist. Lack of information could delay a USACE permit determination.
- 2. All references to "work" include all work associated with the project construction and operation. Work
- includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
- 3. See GC 3 for information on single and complete projects.
- 4. Contact USACE at (978) 318-8832 with any questions.
- 5. The information requested below is generally required in the NHDES Wetland Application. See page 61 for NHDES references and Admin Rules as they relate to the information below.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See the following to determine if there is an impaired water in the vicinity of your work area. * https://nhdes-surface-water-quality-assessment-site-nhdes.hub.arcgis.com/ https://www.des.nh.gov/water/rivers-and-lakes/water-quality-assessment https://www4.des.state.nh.us/onestopdatamapper/onestopmapper.aspx		х
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?		Х
2.2 Are there proposed impacts to tidal SAS, prime wetlands, or priority resource areas? Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at <u>https://www4.des.state.nh.us/NHB-DataCheck/</u> .		Х
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?) Cross	sings
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		x
2.5 The overall project site is more than 40 acres?		X
2.6 What is the area of the previously filled wetlands?	UN	
2.7 What is the area of the proposed fill in wetlands?		380SF
2.8 What % of the overall project sire will be previously and proposed filled wetlands?	0.2%	6
3. Wildlife	Yes	No
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: <u>https://www4.des.state.nh.us/NHB-DataCheck/</u> . USFWS IPAC website: https://ipac.ecosphere.fws.gov/		x

 3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or "Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green, respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological Condition.") Map information can be found at: PDF: <u>https://wildlife.state.nh.us/wildlife/wap-high-rank.html</u>. Data Mapper: <u>www.granit.unh.edu</u>. GIS: <u>www.granit.unh.edu/data/downloadfreedata/category/databycategory.html</u>. 		x
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development? Heath ca		-
3.5 Are stream crossings designed in accordance with the GC 31? n/a, no stre	am cro	ssings
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		Х
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		
5. Historic/Archaeological Resources		
For a minimum, minor or major impact project - a copy of the RPR Form (www.nh.gov/nhdhr/review) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 37 GC 14(d) of the GP document**	X	
6. Minimal Impact Determination (for projects that exceed 1 acre of permanent impact)	Yes	No
 Projects with greater than 1 acre of permanent impact must include the following: Functional assessment for aquatic resources in the project area. On and off-site alternative analysis. Provide additional information and description for how the below criteria are met. 	1	
6.1 Will there be complete loss of aquatic resources on site?6.2 Have the impacts to the aquatic resources been avoided and minimized to the greatest extent practicable?		
6.3 Will all aquatic resource function be lost?		
6.4 Does the aquatic resource (s) have regional significance (watershed or ecoregion)?		
6.5 Is there an on-site alternative with less impact?		
6.6 Is there an off-site alternative with less impact?		
6.7 Will there be a loss to a resource dependent species?		
6.8 Are indirect impacts greater than 1 acre within and adjacent to the project area?		
6.9 Does the proposed mitigation replace aquatic resource function for direct, indirect, and cumulative impacts?		
*Although this checklist utilizes state information, its submittal to USACE is a federal requirement.		

*Although this checklist utilizes state information, its submittal to USACE is a federal requirement. ** If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.

Please mail the completed form and required material to: DHR Use Only					
New Hampshire Division of Historical Resources	R&C #				
State Historic Preservation Office Attention: Review & Compliance	Log In Date / /				
172 Pembroke Road, Concord, NH 03301	Response Date / /				
	Sent Date//				
Request for Project Review by the					
New Hampshire Division of Historical Res	ources				
\square This is a new submittal					
This is additional information relating to DHR Review & Compliance (R&C) #:					
GENERAL PROJECT INFORMATION					
Project Title Riverwoods Supportive Living Health Center					
Project Location 5 White Oak Dive					
City/Town Exeter Tax Map 97 Lot # 23					
NH State Plane - Feet Geographic Coordinates:Easting 1166948Northing 17985(See RPR Instructions and R&C FAQs for guidance.)					
Lead Federal Agency and Contact <i>(if applicable)</i> ACOE <i>(Agency providing funds, licenses, or permits)</i> Permit Type and Permit or Job Reference # NH GP					
State Agency and Contact (if applicable) NHDES					
Permit Type and Permit or Job Reference # Dredge & Fill					
APPLICANT INFORMATION					
Applicant Name RiverWoods Company at Exeter c/o Justine Vogel					
Mailing Address 7 White Oak Drive Phone Number 603-585-3005					
City Exeter State NH Zip 03833 Email jvogel@trwg.org					
CONTACT PERSON TO RECEIVE RESPONSE					
Name/Company Brendan Quigley / Gove Environmental Services					
Mailing Address 8 Continental Dr., Bldg 2, Unit HPhone Number 6035804112					
City Exeter State NH Zip 03833 Email bquigley@gesinc.biz					

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

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION
Project Boundaries and Description
 Attach the Project Mapping using EMMIT or relevant portion of a 7.5' USGS Map. (See RPL Instructions and R&C FAQs for guidance.) Attach a detailed narrative description of the proposed project. Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) (Informative photo captions are requested.) A DHR records search must be conducted to identify properties within or adjacent to the project area. Provide records search results via EMMIT or in Table 1. (Blank table forms are available on the DHI website.) Please note, using EMMIT Guest View for an RPR records search does not provide the mecessary information needed for DHR review. EMMIT or in-house records search conducted on 10/22/2024.
Architecture
Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? 🖾 Yes 🗌 No If no, skip to Archaeology section. If yes, submit all of the following information:
Approximate age(s): built 2011 & 1987 (see demo plan)
 Photographs of <i>each</i> resource or streetscape located within the project area, with captions, along with a mapped photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.) If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photographs)
windows if window replacement is proposed.)
<u>Archaeology</u>
Does the proposed undertaking involve ground-disturbing activity? 🛛 Yes 🗌 No If yes, submit all of the following information:
 Description of current and previous land use and disturbances. Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)
Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.
DHR Comment/Finding Recommendation This Space for Division of Historical Resources Use Only
☐ Insufficient information to initiate review. ☐ Additional information is needed in order to complete review.
🗌 No Potential to cause Effects 🔲 No Historic Properties Affected 🗌 No Adverse Effect 🔲 Adverse Effec
Comments:
If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.
Authorized Signature: Date:

Attachment E

New Hampshire Natural Heritage Inquiry



- To: Brenden Walden 8 Continental Drive Bldg 2 Unit H Exeter, NH 03833
- From: NH Natural Heritage Bureau
- Date: 9/24/2024 (This letter is valid through 9/24/2025)
 - Re: Review by NH Natural Heritage Bureau of request dated 9/24/2024
 - Permit Types: General Permit Alteration of Terrain Permit Standard Dredge & Fill - Minimum; or Expedited
 - NHB ID: NHB24-2924
 - Applicant: Brenden Walden
 - Location: Exeter Tax Map: 97, Tax Lot: 23 Address: 5 White Oak Drive
- **Proj. Description:** The proposed project involves the consolidating of three existing senior care units into one new building with over 100,000 SF of disturbance. proposed development also includes the addition of 141 parking spaces and the redevelopment of White Oak Road.

The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

Based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.



MAP OF PROJECT BOUNDARIES FOR: NHB24-2924

Attachment F

Plans (under separate cover)



1	Exeter Conservation Commission
2	October 8, 2024
3	Novak Room
4	10 Front Street
5	7:00 PM
6	Draft Minutes
7	
8	Call to Order
9	
10	1. Introduction of Members Present (by Roll Call)
11	
12	Present at tonight's meeting were by roll call, Chair Dave Short, Andrew Koff, Trevor Mattera, Keith
13	Whitehouse, Valorie Fanger, Alternate Kyle Welch, Alternate Michele Crepeau, Alternate Bill Campbell,
14	Alternate Don Clement (remotely) and Select Board Representative Dan Chartrand.
15	
16	Staff Present: Kristen Murphy, Conservation and Sustainability Planner
17	
18	Chair Short called the meeting to order at 7:00 PM and introduced the members. Alternates Michele
19 20	Crepeau and Kyle Welch were activated.
20	2. Public Comment
22	
23	Action Items
24	
25	1. Review of State Wetland Dredge and Fill and State Shoreland Permit applications from Foss Motors
26	for a proposed Vehicle Storage Area at Tax Map 52, Lot 112.2 (Brendan Quigley)
27	
28	Chair Short read out loud the Public Hearing Notice. He noted the applicant appeared previously but the
29	Commission did not approve the Conditional Use Permits and indicated that to the Planning Board. Mr.
30	Madison attended the Planning Board meeting on behalf of the Commission. The building which was
31	previously proposed was taken away and the Planning Board felt the new plan satisfied the criteria.
32	December Ovieley of Cover Free incomental and ended the englishing which he material wave survey aired by
33	Brendan Quigley of Gove Environmental presented the application which he noted was summarized by
34 35	Chair Short. Mr. Koff noted he was not present in August and asked if the parking lot design had changed to pervious, and Mr. Quigley indicated yes, with minor changes he pointed to on the plan, with
36	underdrains for treatment. He noted there were small areas with regular pavement. He noted 3,327 SF
37	of total impact and pointed to those areas on the plan. He noted Wheelwright Creek was not on the
38	State's list of Shoreland protected water bodies but the Reservoir is. He noted the 150' buffer is barely
39	impacted with 91% of vegetation and 1.5% of the lot in the shoreland and engineered stormwater
40	treatment. He noted the total area of the lot is 115,813 SF and the proposed disturbance is 31,000 SF
41	including the areas being graded and not paved and includes road disturbance. He calculated 1,804 SF
42	of impervious surface.
43	

- 44 Mr. Mattera noted that the plan has gone back and forth a few times and he appreciates the work that
- 45 has gone into the design changes and removal of some of the sticking points. He stated that he
- 46 commended the design we ended up with.
- 47
- 48 MOTION: Chair Short motioned that the Commission has no objection to the state dredge and fill 49 application as proposed. Mr. Mattera seconded the motion. A vote was taken, all were in favor, the 50 motion passed 7-0-0.
- 51

52 MOTION: Chair Short motioned that the Commission has no objection to the Shoreland application as 53 proposed and will send a memo to the state. Mr. Mattera seconded the motion. A vote was taken, all 54 were in favor, the motion passed 7-0-0.

55

Major Impact Standard Dredge and Fill Wetland Permit Application for 28,418 SF of permanent
 wetland impact and 7,636 SF of temporary wetland impact for Dade Auto Holdings at 146 Portsmouth

58 Ave. for a commercial auto dealership located at Tax Map 51-3-4 (Cindy Balcius, SRE, Inc.)

59 60

60 Chair Short read out loud the Public Hearing Notice.

61

62 Cindy Balcius of SRE, Inc. presented the application on behalf of Dade Auto Holdings. She noted that 63 they appeared on 12/13/22 with rough draft plans for the new building next to Exeter Volvo with 34,520 64 SF of permanent impact at the time and did a pre-application with the state wetland's bureau and 65 looked for mitigation. She showed the existing conditions plan and referenced the site walk tonight, highest observable tideline and prime wetlands, 100' buffer, 100' tidal buffer (state setbacks) and 250' 66 67 DES shoreland. She noted the plan stayed away from the higher functioning wetlands and Parkman 68 Brook. She noted 28,418 SF of permanent impact and 7,636 SF of temporary. Ms. Balcius explained the 69 process of surcharging for the structural support of the new building. She noted the revised project 70 avoids future high tides. She noted the stormwater treatment system for full development was 71 designed to meet town regulations and were reviewed by Ms. Murphy and the project engineer who are 72 working on that now. An AoT application will be done. She noted the owner likes the \$220,000 in lieu 73 fee. She noted more information was requested from the state concerning flagging prime wetlands. 74 75 Ms. Fanger asked about the shoreland boundary being worked out not. Ms. Balcius indicated the state 76 was aware they are still working out the local shoreland impacts but the local shoreland is not on the 77 state plan. Ms. Murphy indicated there were concerns about the deadline expiring before the memo 78 from the Commission was sent. Chair Short noted that the state responded that the Commission's 79 questions be answered. 80 81 Ms. Fangor asked about underground petroleum tanks and Ms. Balcius indicated there was not any 82 planned to her knowledge. 83

- 84 Mr. Koff asked who was on the site walk and Chair Short indicated himself, Mr. Whitehouse, Ms.
- 85 Crepeau and Ms. Murphy.
- 86

87 Mr. Fangor indicated the big fill was concerning and asked about the temporary fill for surcharging. Ms. 88 Balcius explained fill would be there one growing season then the black cloth would be removed. Ms. 89 Murphy asked for confirmation the engineering firm concurred 1-3 years. Ms. Balcius stated that they 90 are mandated to that. As an example if put in in December it doesn't have to be removed until October 91 of the following year. She indicated that she did not know where the fill was coming from but there are 92 specifications. 93 94 Ms. Fangor asked about the back land possibly becoming conservation and Ms. Balcius indicated the 95 owner was considering that. Mr. Mattera noted avoiding the area modeled for marsh migration lends a 96 chunk of value to the area behind it. 97 98 Ms. Murphy read some of the questions submitted by Conor Madison. He questioned the estimated 99 time for dewatering, and asked about stormwater controls and exposed soil during the dewatering. Ms. 100 Balcius indicated she will have a plan showing stormwater at that process and can have an engineer 101 answer his questions. She indicated an example of use of Geotech fabric for temporary impact is at the 102 Rochester industrial park. Ms. Balcius showed the delineations on the first page and noted flood plain 103 wetlands are not out there. 104 105 Ms. Murphy noted that Mr. Madison asked about a tidal application with sea level rise and the retaining wall or removing the wall. Ms. Balcius noted the site elevation and current drainage level of Exeter 106 107 Volvo and the commercial district around it. She noted that retaining walls, from an avoidance and 108 minimization standpoint, minimize impacts. She noted that they don't get permits for future changes. 109 The project is being kept to the front of the parcel and away from higher functioning areas. Ms. Balcius 110 noted the dealership has requirements for parking and access. There is an anticipated timeline for local 111 applications, and she will know more when they get together next week. Ms. Murphy noted he had 112 concerns with the retaining wall being directly linked to the tidal area. 113 114 Chair Short asked about the underground treatment area and Ms. Balcius noted there would be a 115 chamber. 116 117 Ms. Fangor agreed that the size of the project was pretty big, and it would be nice to nail down the 118 possibility of conservation land. Ms. Balcius will ask the owner tomorrow. 119 120 Ms. Murphy stated that the timeline for the state review expires the day before next meeting and the 121 Commission could address it tonight or schedule another meeting. The request for information is due November 11th. Ms. Balcius indicated she would ask the state for an extension of a couple days. 122 123 124 Mr. Whitehouse asked about the deepest fill. Select Board Representative Chartrand said the height of 125 the retaining wall is 23.5 feet and shared concerns with the large amount of fill and recommended the 126 Commission weigh in with the state on that concern. He noted there is a lot of development on 127 Portsmouth Ave and a lot of wetlands, three applications have been seen now and another is coming. 128 Ms. Balcius clarified there is quite a lot of upland on this property, but development is being pushed up 129 front. He noted impacts are being seen. 130

- 131 With both this and the Volvo dealership owned by the same party, Ms. Murphy asked about shifting
- 132 impact to the existing Volvo dealership and about whether parking can be placed under structures. Ms.
- 133 Balcius noted the required amount of parking and size of the building are drivers of that, but **she can ask**
- 134 the engineer if it could be shifted more.
- 135

136 Ms. Murphy noted the rules changed a couple of years ago and now applicants can go straight to in lieu 137 fees. Ms. Murphy said with \$200,000 in lieu fees, has the owner considered local mitigation and she

- asked about the Pickpocket Dam removal project being considered. Ms. Balcius indicated mitigation has
- to be shovel ready. Ms. Murphy noted the feasibility study is available on the town's website. Mr.
- 140 Chartrand noted that the removal of the dam is on the town ballot for March. **Ms. Balcius indicated she**
- 141 would check with the owner and Seta (from mitigation).
- 142
- Ms. Crepeau pointed out this building is double the size of the Volvo dealership and asked if the building
 could be two stories to reduce the footprint. She noted concerns with the size of the project, the
 application of three dealerships. Ms. Balcius noted the building is too small right now.
- 146
- 147 Mr. Koff agreed there was a large impact to a sensitive area with parking along the whole back. He 148 asked about eliminating 8-10' to reduce the height of the wall. He indicated that a 23' wall would have 149 impacts like shading and a lot of reasons, and he feels like this is too much. The upland is not being 150 utilized. Ms. Balcius responded by asking the Commission to imagine the retaining wall gone, then there 151 would be a 2:1 slope. Walls are frequently used to minimize impact. Chair Short asked at what point 152 the wall would go in. Ms. Balcius indicated there would be sheet piling with surcharging so it would be 153 when the temporary fill is pulled out. Chair Short asked why sheet piling wall couldn't be the permanent 154 wall. Ms. Balcius indicated the Geotech advisor should answer that. Ms. Murphy noted the clay soil had 155 to be compressed. Chair Short noted the sheet piling goes deeper. Ms. Crepeau asked about tiers and 156 Ms. Balcius noted there would be more wetland impact.
- 157
- Mr. Mattera expressed concerns with the amount of wetland being filled for this development plan and noted he was having a hard time with that. He noted benefits to not splitting the wetland system and the avoiding of the area for future of marsh migration. He asked if there was any chance of failure with the walls. The amount of fill if it would become fluid it would have impacts. Ms. Balcius noted it is designed to avoid that, and human disturbance has multiplied the impact, and this project will intercept and treat stormwater.
- 164
- Ms. Murphy encouraged having the stormwater details, before local permits are filed, for the durationof the surcharging phase. Ms. Balcius will submit that.
- 167
- Ms. Murphy questioned 20' plus fill for a year is really a temporary impact. Ms. Balcius indicated she hasexamples of this from Rochester.
- 170
- 171 Ms. Murphy asked Ms. Balcius to bring details of the Rochester example.
- 172

173			oted that the sea level rise model shows water coming in from Parkman Brook under			
174	current scenarios of mean high, high water and yet the application only addresses water movement in					
175	from P	ortsmou	th Avenue. Mr. Whitehouse indicated there was evidence onsite of this flooding.			
176						
177			icated the applicant will get answers and come back next month. Ms. Balcius will ask for			
178	an exte	ension ar	nd copy Ms. Murphy. Ms. Murphy will send the state a note about the extension.			
179						
180			Fangor motioned to send communication to the state telling them the applicant has			
181	•		o-day extension and will review the application at the next Conservation Commission			
182	meetir	ig in Nov	vember. Mr. Koff seconded the motion. A vote was taken, all were in favor, the motion			
183	passed	7-0-0.				
184						
185						
186	3. Con	nmittee l	Reports			
187						
188	a.	Proper	rty Management			
189						
190		i.	10/25 McDonnell Gate Operation Proposed Seasonal End Date			
191						
192		Ms. Mu	urphy noted volunteers will stop opening and closing the McDonnell gate on October 25 th			
193		to end	the season.			
194						
195		ΜΟΤΙΟ	N: Chair Short motioned to close the McDonnell gate on October 25 th . Ms. Crepeau			
196		second	led the motion. A vote was taken, all were in favor, the motion passed 7-0-0.			
197						
198		ii.	Raynes Farm Updates			
199						
200			Ms. Murphy reported that LGT Restoration have finalized work on the west and north			
201			side. She provided pictures earlier. Steve Bedard is making progress but will need an			
202			extension to do the east side clapboard next year and the extension will be approved by			
203			the Commission, Board of Directors, L-CHIP and Town Manager Russ Dean. She noted			
204			outstanding items were the fire detection system, and staircase which would be			
205			deferred. Mr. Chartrand explained that Mr. Dean will submit the warrant article to the			
206			Budget Recommendations Committee and the Select Board to move forward to the			
207			voters. Ms. Murphy will have Jeff Beck look at the request and consider if there are			
208			other electric issues needed to bundle with the fire suppression system work.			
209						
210			Chair Short noted it is worthwhile to give Mr. Bedard an extension because his portion			
211			of the work is highly specialized.			
212						
213			MOTION: Chair Short motioned to grant an extension to Mr. Bedard until next year.			
214			Mr. Whitehouse seconded the motion. A vote was taken, all were in favor, the motion			
215			passed 7-0-0.			
216						

217	iii. Potential Raynes Fall Event
218	
219	Mr. Whitehouse indicated he would like to see an event at Raynes and noted additional
220	parking is needed. He recommended cleaning up along the wall, tree trimming and
221	cutting stumps and to keep up around the immediate area of the barn.
222	
223	Mr. Whitehouse noted he spoke to Amanda Kelly and is organizing volunteer projects
224	around town, working on a list with Ms. Murphy and Parks & Recreation. Chair Short
225	noted there could be some value in keeping track of what's been accomplished and by
226	who.
227	
228	

229	b.	Outreach Events
230 231		i. Hike Exeter Challenge – Kyle Welch
232 233		Mr. Welch reported that Ms. Murphy had the stickers printed and there will be a description
233		and parking information next week.
235 236	c.	Other Committee Reports (River Study, Sustainability, Energy/CPAC, Tree, CC Roundtable)
	ι.	
237		i. Seacoast Green Challenge
238		Ms. Murphy noted the competition with neighboring towns to see which community has the
239 240		most residents using the higher renewable content in their Community Power subscription would run through January. She encouraged residents to opt up to a higher percentage.
241		ii. Ms. Murphy noted the River Study is talking about fees and analysis. Chair Short asked about
242		the Commission providing a recommendation and Mr. Chartrand indicated that the
243		recommendation would be timely once it goes on the warrant article.
244		iii. Ms. Murphy noted the Energy Committee is working on Window Dressers.
245 246		iv. Ms. Murphy noted the Sustainability Committee is working on Styrofoam recycling. She noted there is a large increase in the waste management contract.
247		
248 249	4. App	proval of Minutes September 10, 2024 Meeting - <i>Tabled</i>
245	5. Cor	respondence
251		
252	Other	Business
253 254	Novt N	Neeting: 11/12/24, Submission Deadline 11/1/24
255	INCAL IV	reeting. 11/12/24, Submission Deaume 11/1/24
256	6. Adj	<u>ournment</u>
257		
258	Chair	Short adjourned the meeting at 8:41 PM.
259	_	
260	Respec	ctfully submitted,
261	Daniel	Hoijer, Recording Secretary
262	Via Exe	
262	Mohin	ar ID 070 2000 0256

263 Webinar ID 878 3898 8356

Exeter Sustainability Advisory Committee presents

PUMPKIN J COMPOSTING



NOVEMBER 10TH, 2024 @ 9-11AM 26 WATER ST EXETER, NH 03833

OVER 1 BILLION POUNDS OF PUMPKINS ARE ADDED TO LANDFILLS EACH YEAR WHERE THEY PRODUCE METHANE, A HARMFUL GREENHOUSE GAS. DO YOUR PART BY COMPOSTING YOUR PUMPKINS!

IF YOU'RE UNABLE TO JOIN US, PLEASE REMEMBER THAT THE EXETER TRANSFER STATION HAS FREE COMPOSTING FOR RESIDENTS

Improve the energy efficiency of your home. FREE Home Energy Workshop

NHSaVeS Button Up Workshop is a 1½ hour presentation plus Q & A about improving the energy efficiency of your home. It covers energy saving tips and **NHSaves** energy efficiency programs. Learn about saving electricity, insulation and air sealing, energy audit and weatherization programs, rebates on electric and gas appliances, and other incentives from NH's energy utilities. New Hampshire residents that want to use energy wisely and save money will find the information very useful.



PRESENTATION:

Join us for a **NHSaVCS** Button Up Workshop in person or on zoom.

EXETER

ETTON

2024

WHEN:

Tuesday, November 19, 2024 6:00 p.m.–7:30 p.m. Light refreshments will be served.

WHERE:

Exeter Public Library Main Meeting Room—Mezzanine 4 Chestnut Street Exeter, New Hampshire or on zoom

PRESENTER: Ted Stiles, BPI Building Analyst

FOR ZOOM LINK AND QUESTIONS:

Contact Kristen Murphy kmurphy@exeternh.gov or 603-418-6452

SPONSORED BY: NHSaves: www.nhsaves.com

LOCAL PARTNERS: Exeter Energy Committee Exeter Public Library

Visit https://nhsaves.com/events

for dates and locations of all Button Ups. Workshops are organized by **Plymouth Area Renewable Energy Initiative**, (PAREI) www.PlymouthEnergy.org • 603-536-5030

The workshops are FREE thanks to funding provided by



THE EXETER CONSERVATION COMMISSION PRESENTS:

RAYNES FARM FIRESIDE SUMPLISE

61 NEWFIELDS ROAD, EXETER, NH SATURDAY NOV 23 AT 6:30 AM



PHOTO COURTESY OF BEVERLY WHITEHOUSE

Window Insert Sale & Community Build



in Exeter!

 $^{\star}~$ If you need window inserts because you have drafty windows, sign up!

If you'd like to volunteer to help build them, sign up!







Now taking orders through Nov. 30, 2024**!**

Window Dressers

INSULATING WINDOW INSERTS

Brought to you by the Exeter Energy Committee & Window Dressers, a non-profit organization

- $\cdot\,$ Inserts are custommeasured by our team in your home
- $\cdot\,$ Some financial support is available to offset costs. Inserts
- $\cdot\,$ are built by participants and community volunteers.
- · Community build January 2025

For more info and to sign up:

WindowDressers Info and Ordering: 207-596-3073 www.windowdressers.org

Exeter Coordinators: windowdressers@exeternh.gov

