

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 August 8th, 2023 beginning at 5:00 PM at <u>8 Commerce Way, Exeter.</u>

Monthly Meeting

The Exeter Conservation Commission will meet in the <u>Nowak Room</u>, Exeter Town Offices at 10 Front Street, Exeter on **Tuesday**, **August 8th**, **2023 at 7:00 P.M.**

Call to Order:

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

NON PUBLIC SESSION

1. Non-Public Session pursuant to RSA 91-A:3, II (d) for consideration of the acquisition, sale or lease of real or personal property.

Action Items:

- 1. Continued review of Wetland Conditional Use Permit for the construction of a single-family house at **24 Powdermill Rd** for Chrissy Rupp– Tax Map 102-04 (Daniel Coons)
- 2. Wetland Conditional Use Permit Application for a subdivision and single-family house and driveway for the Maloney family at **18 Beech Hill Rd Tax Map 32-11** (John Hayes)
- 3. Shoreland Conditional Use Permit application for a 3 lot subdivision for the Hewsons at **45 Pine Street Tax Map 83-59** (Henry Boyd)
- 4. Wetland and Shoreland Conditional Use Permit Application for the expansion of an existing building, parking and stormwater structures at **8 Commerce Way** for C3i Tax Map 48-3 (Jack McTigue)
- 5. Expenditure Request
 - a. Commemorative Bench at Raynes Farm (Dave Short, Bill Campbell)
 - b. Approval of Mowing Funds
 - c. ESRLAC \$150
- 6. 2024 Budget Planning
- 7. Funding request to foundations (CC auth to reach out)
- 8. Committee Reports
 - a. Property Management
 - b. Trails
 - c. Outreach Events
 - d. Other Committee Reports (River Study, Sustainability, Energy/CPAC, Tree, CC Roundtable)
- 9. Approval of Minutes: July 11th, 2023 Meeting
- 10. Correspondence
- 11. Other Business
- 12. Next Meeting: Date Scheduled 9/12/23, Submission Deadline 9/1/23)

Trevor Mattera

Vice-Chair, Exeter Conservation Commission

Posted August 4th, 2023 Exeter Town Website <u>www.exeternh.gov</u> and Town Office kiosk.

ZOOM Public Access Information:

Virtual Meetings can be watched on Ch 22 or Ch 98 and YouTube.

To access the meeting, click this link: https://us02web.zoom.us/j/89691128042

To access the meeting via telephone, call: +1 646 558 8656 and enter the Webinar ID: 896 9112 8042

Please join the meeting with your full name if you want to speak.

Use the "Raise Hand" button to alert the chair you wish to speak. On the phone, press *9.

More instructions for how to access the meeting can be found here:

https://www.exeternh.gov/townmanager/virtual-town-meetings

Contact us at extvg@exeternh.gov or 603-418-6425 with any technical issues.

TOWN OF EXETER PLANNING DEPARTMENT MEMORANDUM

Date:August 4th, 2023To:Conservation Commission Board MembersFrom:Kristen Murphy, Natural Resource PlannerSubject:August 8th Conservation Commission Meeting

NOTE SITE WALK ON AGENDA AT 5PM BEFORE MEETING

24 Powdermill Rd:

This application was before you in July. Based on site walk conditions, the wetland scientist revisited the property to evaluate prior wetland delineation in the location of the driveway and located an additional wetland pocket. The driveway has been moved east to minimize impacts.

• The applicant is scheduled for the August 24th Planning Board meeting.

Suggested Motion for Wetland Conditional Use Permit:

We reviewed this application and feel the need to table the application to a date certain due to insufficient information on criteria necessary for the Commission to make a recommendation to the planning board as noted below: We recommend the required information be submitted by the next meeting submission deadline of ______ to be heard at the ______ conservation commission meeting date.

We have reviewed this application and have no objection to the approval of the conditional use permit as proposed.

We have reviewed this application and recommend that the wetland conditional use permit be (approved with conditions) (denied) as noted below:

18 Beech Hill Rd:

Wetland Conditional Use Permit for the subdivision and development of a single-family house and driveway.

- No TRC is scheduled for this project.
- The applicant is scheduled for the August 24th Planning Board meeting.
- Application shows 40' buffer (PD soils) on existing conditions but 50' buffer (VPD soils) on proposed conditions and table indicates PD. Clarification needed.
- Applicant calculations necessary to determine compliance with 9.1.8 in separate email. "*The total proposed lot area is 2.94 acres. The wetlands on the proposed lot total 0.67 acres.*"
- Condition: Final plans require buffer correction, wetland lot calculations, wetland scientist stamp.

Suggested Motion for Wetland Conditional Use Permit:

We reviewed this application and feel the need to **table the application to a date certain** due to insufficient information on criteria necessary for the Commission to make a recommendation to the planning board as noted below: We recommend the required information be submitted by the next meeting submission deadline of to be heard at the conservation commission meeting date.

We have reviewed this application and have no objection to the approval of the conditional use permit as proposed.

We have reviewed this application and recommend that the wetland conditional use permit be (approved with conditions) (denied) as noted below:

45 Pine Street:

The applicant is proposing to subdivide an existing house lot into 3 separate lots. Development of the 2 newly created lots requires a conditional use permit as they fall within the shoreland district of the Little River based on a wetland delineation associated with the Scanlon property on Nelson Drive in 2020.

- No TRC is scheduled for this project.
- The applicant is scheduled for the August 24th Planning Board meeting.
- The proposal shows impervious cover at 15.8% and 20.7% for lots 2 and 3 respectively (10% limit without CUP). It is unclear from the application if site conditions ruled out the possibility of pervious pavement.
- Fertilizer limits imposed by section 9.3.4.F.12 are not cited on the plans. I recommend adding these restrictions as a note on the plans.

Suggested Motion for Shoreland Conditional Use Permit:

We reviewed this application and feel the need to table the application to a date certain due to insufficient information on criteria necessary for the Commission to make a recommendation to the planning board as noted below: We recommend the required information be submitted by the next meeting submission deadline of ______ to be heard at the ______ conservation commission meeting date.

We have reviewed this application and have no objection to the approval of the conditional use permit as proposed.

We have reviewed this application and recommend that the wetland conditional use permit be (approved with conditions) (denied) as noted below:

8 Commerce Way:

The applicant is looking to expand the building, parking and stormwater structures associated with the existing building for C3i.

- TRC & PB Date TBD
- This portion of Norris Brook shoreland district is 150' (beyond confluence with Watson Bk) and wetlands report in 2016 application stated wetlands were determined to not be contiguous.

Suggested Motion for Shoreland Conditional Use Permit:

We reviewed this application and feel the need to **table the application to a date certain** due to insufficient information on criteria necessary for the Commission to make a recommendation to the planning board as noted below: We recommend the required information be submitted by the next meeting submission deadline of to be heard at the conservation commission meeting date.

We have reviewed this application and have no objection to the approval of the conditional use permit as proposed.

We have reviewed this application and recommend that the wetland conditional use permit be (approved with conditions) (denied) as noted below:

Suggested Motion for Wetland Conditional Use Permit:

We reviewed this application and feel the need to table the application to a date certain due to insufficient information on criteria necessary for the Commission to make a recommendation to the planning board as noted below: We recommend the required information be submitted by the next meeting submission deadline of ______ to be heard at the ______ conservation commission meeting date.

We have reviewed this application and have no objection to the approval of the conditional use permit as proposed.

We have reviewed this application and recommend that the wetland conditional use permit be (approved with conditions) (denied) as noted below:

Expenditure Request at Raynes

Dave to present potential project for purchasing materials to build and install as a committee, 3 Leopold benches at the top of the knoll at Raynes Farm. Metal plates will be installed recognizing members who served significant (10+ years) on the Commission.

Suggested Motion:

<u>Approve the expenditure of XXX from the Conservation Land Administration</u> budget line item for the purposes of purchasing materials & supplies to construct and install Leopold Benches and add names at Raynes Farm.

Expenditure Request Mowing

Will have 2023 Estimate by meeting date Morrissette (1/2 or full field??) – (last year \$475) Perry/Whites Meadow - (last year \$850) Irvine - (last year \$500)

Suggested Motion:

_____ Approve the expenditure of \$XXX from the Roadside Mowing line item for grassland field maintenance.

Expenditure Request Dues ESRLAC \$150

Suggested Motion:

_____ *Approve the expenditure of \$150 from the Dues line item.*

2024 Budget Planning:

0004 000	oral Eur	nd Preliminary Budget							
2024 Gen	eral Fur	id Preliminary Budget							
Prepared	: July 21	, 2023							Version #1
Org	Object	Description	2022 Actual	2023 Budget	2023 Actual: June	2024 Preliminary Budget	2024 Preliminary Budget vs. 2023 Budget \$ Increase/- (Decrease)	2023 Budget %-	
01461105		CC- Sal/Wages PT	368	1,000	165	504	(496)		Recording secretaries @ \$18/hr avg about 6 hr/mtg
01461105		CC- Sal/Wages Temp		2.520	-	2.520	- (450)		Interns 2@12/hr, 15 hrs/wk for 7 wks
01401105	51210	Salaries Total	368	3,520	165	3,024	(496)		
01461105	52200	CC- FICA	23	218	10	187	(31)	-14.1%	Based on wages: 6.2%
01461105	52210	CC- Medicare	5	51	2	44	(7)	-14.1%	Based on wages: 1.45%
		Benefits Total	28	269	13	231	(38)	-14.1%	5 5
01461105	55051	CC- Conservation Land Administration	3,602	2,050			(2,050)	-100.0%	Covers costs for outreach activities (Spring Tree program, pollinator projects, star gazing event, etc), trail maintenance (bridge, signs, paint, etc and conservation land administration work such as property monitoring an maintenance needs like invasive brush removal, and supplies such as to tools, gloves and equipment.
01461105	55058	CC- Contract Services	993	1,000	-		(1,000)	-100.0%	Raynes minor maintenance repair needs.
01461105	55088	CC- Dues	1,050	1,200	1,050		(1,200)	-100.0%	For board to join related organizations: ESRLAC (\$150), NHACC (\$900), SELT (\$150)
01461105	55091	CC- Education/Training	70	250	-		(250)	-100.0%	Training for board members and/or Cons &Sust planner (NHACC-3 members and other workshops)
01461105	55171	CC- Legal/Public Notices	-	50	-		(50)	-100.0%	Covers approx 1 legal notice typ in newspaper
01461105		CC- Postage	-	20	-		(20)		Mailings to ConCom members (mostly elect distr)
01461105		CC- Registry of Deeds	-	30	-		(30)		Fee for registry of deeds (typically printing plans, deeds)
01461105	55254	CC- Roadside Mowing	1,775	1,700	-		(1,700)		Mowing White, Perry, Irvine and 1/2 of Morrissette. This is paid out Oct-Dec
		General Expenses Total	7,490	6,300	1,050	-	(6,300)	-100.0%	b
		Conservation Commission Total	7,886	10,089	1,228	3,255	(6,834)	-67.7%	

In addition, this year the CC is considering CIP – Raynes \$56,200 if Mooseplate \$20k is awarded

Other discussion items – 2 potential conservation projects \$5.2M Full project, Estimated Exeter portion 1.1M \$1.2 M total project cost, Exeter portion TBD

Other possible major projects in Aug special meeting and draft CIP:

*3.5M sewer siphons, \$2.5M Surface water treatment plant, \$17.6M public safety complex,

Foundations

Valorie has done significant research and found foundations whose missions may align with the Commissions for Raynes Farm and recommends reaching out to them.

Cogswell Benevolent Trust --- info@cogswellbenevolenttrust.org.
 Fred J Brotherton Charitable Foundation-- info@fjbcf.og

Subject Line: Conservation Commission of Exeter Historic Building request

On behalf of the Conservation Commission of Exeter, I am inquiring about possible funding for the historic preservation of Raynes Barn. The Raynes farm property has been identified on early maps as the original Town Landing, and also served as the center of the Exeter Cattle Market. The barn is listed on the NH Register of Historic Places.

Since acquisition, our vision has been to continue agricultural use and create an educational center celebrating historic and natural features of the farm. Though we have made great progress in preserving the barn and making repairs to stabilize its structural integrity, we do not have sufficient funding to complete exterior clapboard and paint repair.

We have an active and engaged Raynes Farm Stewardship Committee that includes the expertise of farmers, historians, recreation managers, event planners, structural engineers, natural resource specialists and carpenters who ensure repairs and uses are appropriate and highlight the historical and natural value of the barn and property.

Our goal is to make Raynes Barn a vibrant community center. We've already had success at our events such as our full moon snow shoe, winter solstice lantern parade, pumpkin toss/fall festival, owl prowls, historic tours, and kites for cancer. With additional funding for barn repair, we could exponentially grow the number and breadth of uses of the barn and property and preserve the historic Raynes Barn for future generations.

Thank you for your consideration.

Suggested Motion:

Authorize (Chair, V-Chair or Kristen?) to send the above email inquiry on behalf of the Commission for funding to support repairs at Raynes Barn.

Committee Reports – I will be happy to speak to any of these in detail if requested at the meeting.

- a) Trails
 - Sign at Garrison Ln Replaced with No Winter Parking
 - Installed kiosk at Brickyard Park
 - Tree removal across trail at EHS
 - Morrissette: Passport Post re-installed, tree in field removed, perimeter path mowed
 - Eversource ROW Oaklands Trail Network Partial Closure/Signage Planning
- b) Outreach Events
 - PREP SOOE Presentation
 - RMAC Meeting Hosting, Dam Presentation
- c) Property Maintenance
 - Stone Property Mowing too wet to mow left of entrance. More grass less brush than last year. Request load of gravel at entrance.
- d) Other Committee Reports (River Study, Sustainability, Energy/CPAC, Tree, CC Roundtable)

- CPAC Opt Up Campaign
 - New rates effective 8/1, Clean 100 (15.2) slightly less than last periods Granite Basic (15.8) rate.
- Energy:
 - Working on EECB grant application for \$200,000 to fund \$2k match requirement for ButtonUp NH/ NHSaves for low income residents in Exeter's 5 manufactured housing parks.
 - Considering stretch code component to incentivize energy efficient construction
- Tree:
 - Presented status report to SB
 - Received notice of 15 Liberty Elms for planting
 - Encouraged to submit budget request, considering stand-alone committee
- River:
 - Healthy Lawns Clean Water lawncare pledge opportunity. Commit to 5 easy steps (plant natives, mow high, leave clippings, test soil, water wisely), get lawn sign.
 - PREP SOOE presentation <u>available online</u>
 - May <u>video</u> and <u>presentation</u> of Pickpocket Dam Feasibility Study progress report
- SAC
 - <u>Plastic Free July</u> (and Beyond)
 - Partner with CPAC on Opt Up campaign
 - Collab with EC on Stretch code consideration



<u>Ilex Wetlands Consultants</u> PO Box 2185 Wolfeboro, New Hampshire 03894 Phone: (603) 520-8533 email: ilexwetlands@gmail.com

July 12, 2023

Doug & Chrissy Rupp 69 Newburyport Turnpike Newbury, MA 01951

Re: Wetlands Assessment/Delineation Location: 24 Powder Mill Rd, Exeter Tax map/Lot: 102 - 004 Our File #: 2023 - 1509

This report is being submitted to you to detail the field assessment performed July 11, 2023. At the request of the Conservation Commission on July 10th, we returned to the site to evaluate the delineation done by Gove Environmental Services (GES). In specific, they requested that we review the frontage along Powder Mill Road. We also evaluated the parcel side property ling along the Boston and Maine Railway property. As we noted at the Conservation Commission meeting on July 10th, our prior evaluations were more limited to the rear of the subdivided parcel as well at the area of your parents property between the proposed house site, and your parents house.

As a result of our further investigation, we found one small approximately 100-150 sf wetland pocket, and also made adjustments to the wetlands boundary along Powder Mill Road, and also along the Boston and Maine side the property.

The small wetland pocket has been flagged with pink pin flags and the location has been added to the most recent plans developed by Millenium Engineering as flag numbers 101 thru 105.

We have added additional pin flags along Powder Mill Road, used new arctic pink surveyors flagging labelled "Wetland Boundary" to redefine our opinion of the wetland boundary as it does differ somewhat from the boundary noted by GES.

By the means of this letter, and the plans with our own lines sketched upon it, we are providing a copy of this information to Millenium Engineering, so that they can redo the wetlands boundary on the plans, and direct wetland impacts and buffer impacts can be used to calculate the least impactful place to locate the proposed driveway. Once this has been established, we will send a letter to NHDES to advise of the revisions, and to get their approval on such. In any event, the amount of wetland impact will not significantly change the nature of or amount of wetland impacts being requested of NHDES.

<u>Ilex Wetlands Consultants</u> PO Box 2185 Wolfeboro, New Hampshire 03894 Phone: (603) 520-8533 Fax (615) 676-3495 email: ilexwetlands@gmail.com

Once we have the revised plans, we will then submit these to the Town of Exeter Conservation Commission, and Planning Board for a revised Conditional Use Permit.

This on-site analysis was performed using the three factor approach of soils, vegetation and hydrology in accordance with the "Army Corps of Engineers Wetland Delineation Manual, Technical Report Y-87-1" January 1987, as well as other protocols accepted by the Army Corps of Engineers, and the New Hampshire Department of Environmental Services.

No trees or shrubs were found in the wet meadow where the additional wetland pocket was noted. I think that we are in agreement that when we inspected this location a month ago, not only was this area not saturated to the surface, but sedges had not started to fill in for the growing season. Herbs present include: Canada rush (*Juncus canadensis*), spike rush (*Eleocharis acicularis*), timothy (*Phleum pratense*), sweet vernal grass (*Anthoxan-thum odoratum*), red top (*Agrostis alba*), rye (*Lolium perenne*). The dominance of some of these species, such as the rushes and red top will indicate a wetlands, while the dominance of others such as timothy and sweet vernal grass will indicate the area is an upland. Soils present within the wetland were a clayey soil, with a color of 2.5y 5/2 at the soil surface. The soil colors were uniformly mixed here, indicating that the field was, at one point, routinely plowed. The wetland indicator for this soils is F3 Depleted matrix.

A sketch is attached to this letter, and we will continue to communicate as the process continues

Regards,

Daniel Coons, NH Certified Wetland Scientist #264 Ilex Wetlands Consultants



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

SUBMITTAL REQUIREMENTS:

- 1. Fifteen (15) copies of the Application
- 2. Fifteen (15) 11"x17" and three (3) full sized copies of the plan which 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' --Exemplary Wetland: 50'

- --Poorly Drained: 40' --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

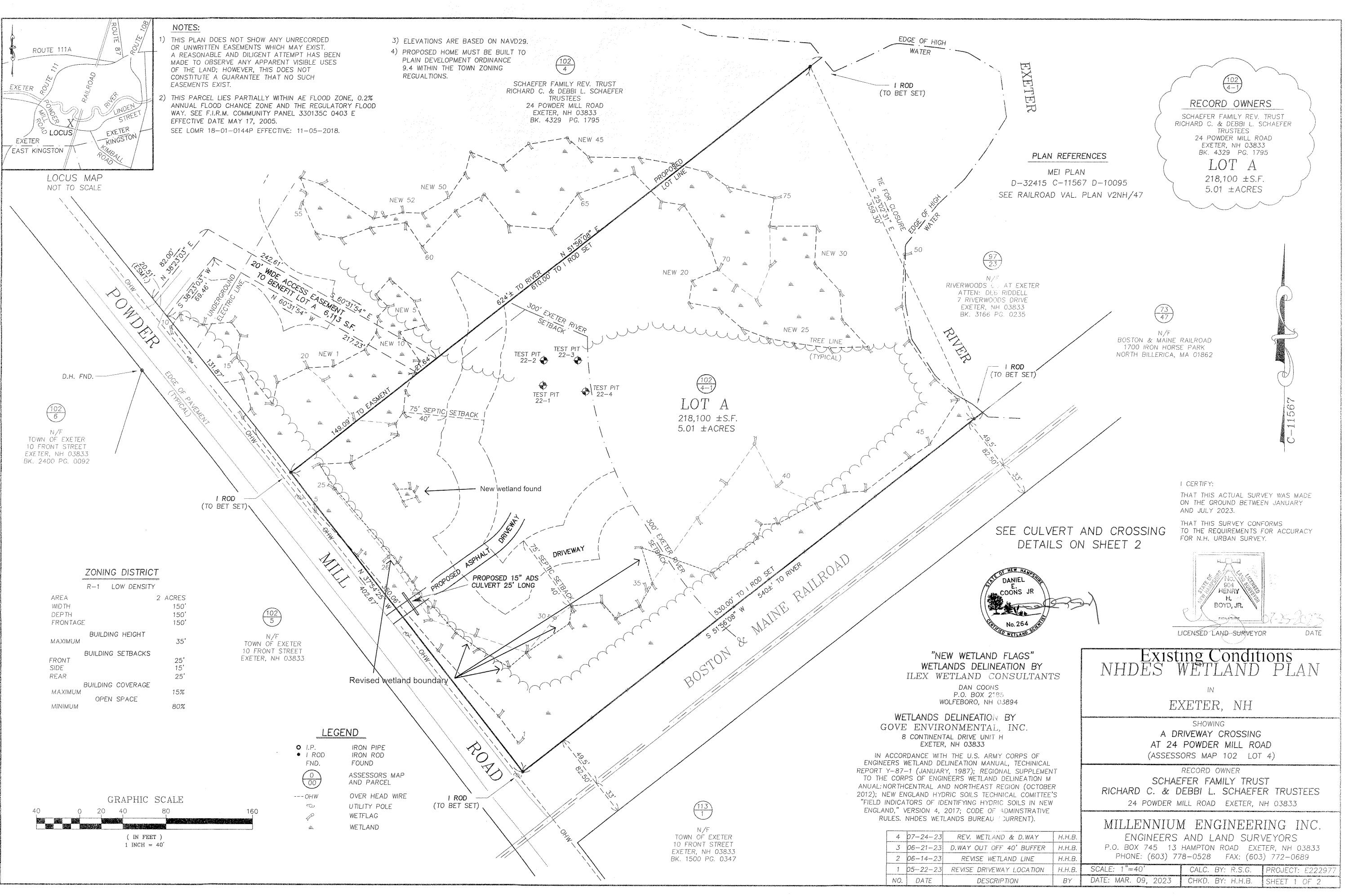
The Planning Office must receive the completed application, plans and fees on the day indicated on the Planning Board Schedule of Deadlines and Public Hearings.

APPLICANT	Name:	Douglas and Christine Rupp		
	Address:	69 Newburyport Turnpike, Newbury, MA 01951		
	Email Add	ress: christine.l.rupp@gmail.com		
	Phone:	978-476-1351		
PROPOSAL	Address:	24 Powdermill Road		
Tax Ma		102 Lot#004 Zoning District:		
	Owner of F	Record: Douglas & Christine Rupp		
Person/Business	Name:	Douglas and Christine Rupp		
performing work	Address:	69 Newburyport Turnpike, Newbury, MA 01951		
outlined in proposal	Phone:	978-476-1351		
Professional that	Name:	Daniel Coons, dba Ilex Wetlands Consultants		
delineated wetlands	Address:	PO Box 2185, Wolfeboro, NH 03894		
	Phone:	603-520-8533		

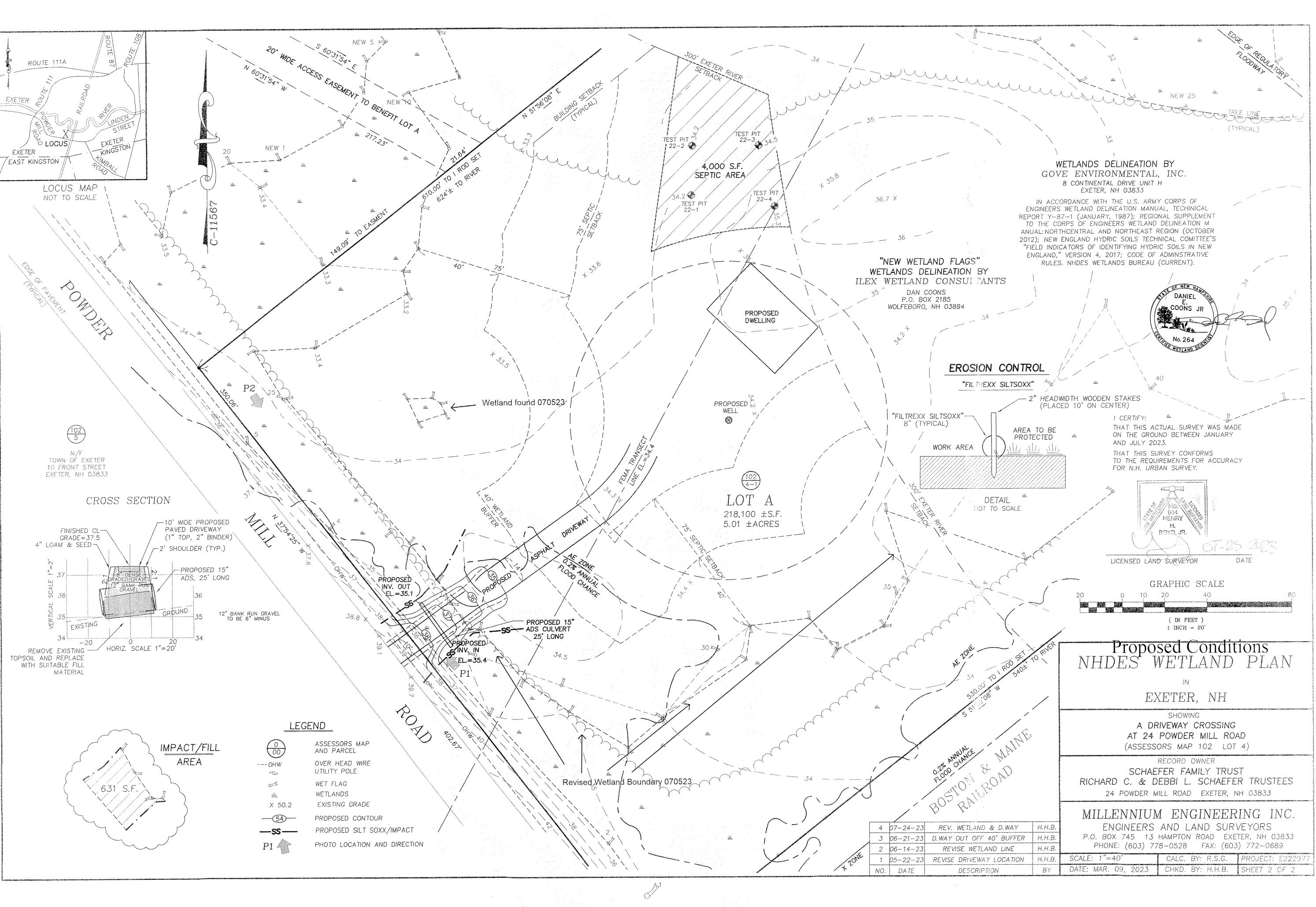
Town of Exeter Planning Board Application Conditional Use Permit: Wetland Conservation Overlay District

Detailed Proposal including intent, project description, and use of property: (Use additional sheet as needed) The proposed project is the construction of a driveway to access a building and septic envelope found in an upland area. As wetlands span the entire frontage of the parcel, a dredge and fill application has been submitted to NHDES. No other alternative exists which would allow driveway access without wetland impacts. The proposed location is the location on the parcel which provides the most minimal impacts to both the wetland and the wetland buffer.

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				
	🔀 PD	_40_sf_	□x PD	<u>80 sf</u>			
	🔲 Inland Stream		Inland Stream				
Permanent Impact	Wetland:		Buffer:				
	Prime Wetlands		Prime Wetlands	2			
	Exemplary Wetlands		Exemplary Wetlands				
	Vernal Pools (>200SF)		Vernal Pools (>200SF)				
	🔲 VPD		🗋 VPD	VV			
	🕅 PD	<u>631 sf</u>	🕅 PD	560 sf			
	🔲 Inland Stream		Inland Stream				
List any variances/special	exceptions granted by Zonir	ng Board of	Adjustment including dates	:			
No variance for the	contstruction or the driv	eway hav	e been requested of the	ZBA			
		•	·				
Describe how the propose	I meets conditions in Article	9.1.6.B of	the Zoning Ordinance (attac	ched for reference):			
	s allowed in this zone. NHDI I. This lot has no frontage wh						
chosen for the driveway r	ninimizes as much as possib	ole wetland	and buffer impacts. Any loss	s of wetland function or			
	d as much as possible. The						
	uction. No temporary impacts wing construction. We antici						
approval of this project. F	Permit application has been s						
Corps of Engineers.							



-



18 Beech Hill Rd Town of Exeter



Planning Board Application for <u>Conditional Use Permit</u>:

Wetlands Conservation Overlay District

March 2020

Revised 03/2020-CUP



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

SUBMITTAL REQUIREMENTS: (Note: See Application Deadlines and Submission Requirements for Conservation Commission Requirements)

- 1. Fifteen (15) copies of the Application
- 2. Fifteen (15) 11"x17" and three (3) full sized copies of the plan which 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:
 - Edge of Disturbance i.
 - 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: FRANKLIN ASSOCIATES, LLC			
	Address: 143 RAYMOND RD, UNIT 4, CANDIA, NH 03034			
	Email Address: jefranklin@atlanticbb.net			
	Phone: 603-483-3096			
PROPOSAL	Address: 18 BEECH HILL RD			
	Tax Map #2 Lot#1 Zoning District: R-1			
	Owner of Record: S&T MALONEY FAMILY REVOCABLE TRUST			
Person/Business	Name: N/A			
performing work	Address:			
outlined in proposal	Phone:			
Professional that	Name: JOHN P. HAYES,III			
delineated wetlands	Address: 7 LIMESTONE WAY, NORTH HAMPTON, NH 03820			
	Phone: 603-205-4396			

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)

THE INTENT IS TO SUBDIVIDE A 2.94 ACRE LOT FROM MAP 32 LOT 11, WHICH CURRENTLY HAS 8.74 ACRES.

THE DEVELOPMENT OF THE LOT IS TO INCLUDE A 3 BEDROOM RESIDENTIAL HOME, WELL, SEPTIC SYSTEM, DRIVEWAY AND THE ASSOCIATED SITE WORK WITH SUCH A PROJECT. PORTIONS OF THE HOME AND DRIVEWAY WILL BE WITHIN THE 75' PARKING AND STRUCTURAL BUFFER. THE SEPTIC SYSTEM WILL MEET TOWN AND STATE SETBACKS.

THE USE WILL BE RESIDENTIAL AND IS INTENDED FOR THE MALONEYS SON, BRICE, AND HIS WIFE.

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)				
	U VPD		🔲 VPD				
	D PD		D PD	4,000			
	Inland Stream		Inland Stream				
Permanent Impact	Wetland:		Buffer:				
	Prime Wetlands		Prime Wetlands				
	Exemplary Wetlands		Exemplary Wetlands				
	Vernal Pools (>200SF)		Vernal Pools (>200SF)				
	🔲 VPD		U VPD				
	D PD		D PD	1,350			
	Inland Stream		Inland Stream				

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

Describe how the proposal meets conditions in Article 9.1.6.B of the Zoning Ordinance (attached for reference):

SEE ATTACHED



CONDITIONAL USE PERMIT ARTICLE 9.1.6.B CONDITIONS

June 9, 2023

Town of Exeter Planning Board 10 Front St Exeter, NH 03833

RE: Subdivision: S&T Maloney Rev. Trust 18 Beech Hill Rd Exeter, NH 03833 Tax Map 32 Lot 11

CONDITIONS:

1. The underlying zone is residential, R-1 and lies within the Wetland Conservation Overlay District due to the wetlands on the property. The proposed use will be for residential purposes and is allowed in this District.

2. We chose the area of development, for which this Conditional Use Permit is being submitted, because we believe that it is the least impactful to the wetlands. While an alternative area does exist on the lot where we can meet all the buffer distances, access to this area would require two wetland crossing permits and would be more detrimental to the wetlands than what we are proposing.

3. See "Functions and Values" report by John P. Hayes.

4. The proposed development of the lot includes a modestly sized 3 bedroom home with an attached garage, an Advanced Enviro-Septic system, well and driveway. The Advanced Enviro-Septic leachfield has a reduced bacterial output in comparison to other types of leachfields, a smaller footprint and is allowed to be constructed closer to the water table than any other system due to its reduced bacterial output. Appropriate sediment and erosion control methods will be used to reduce the impact to the wetlands during construction.

5. The proposed use will not create any hazards to "individuals, public health, safety and welfare due to the loss of wetlands or contamination of ground water, or other reasons" as we are proposing to meet all current State of NH DES subsurface regulations and are not proposing any loss of wetlands or wetland crossings. Under NH Wetlands Law RSA 482-A, there are no wetland setbacks.

6. At this time we are not proposing increasing any wetland buffers elsewhere on the site.



CONDITIONAL USE PERMIT ARTICLE 9.1.6.B CONDITIONS

June 9, 2023

Town of Exeter Planning Board 10 Front St Exeter, NH 03833

RE: Subdivision: S&T Maloney Rev. Trust 18 Beech Hill Rd Exeter, NH 03833 Tax Map 32 Lot 11

7. The proposed use within the buffer is permanent. Areas adjacent to the house, driveway and leachfield, which are disturbed during construction will be loamed and seeded for future lawn areas.

8. The proposed subdivision will require two State permits; a subdivision approval for the creation of a lot with less than 5 acres and a construction approval for septic system design. These State applications have not yet been submitted pending the outcome of the Conditional Use Permit and Subdivision application.

Sincerely,

Jason Franklin



WETLANDS FUNCTIONAL ASSESSMENT WORKSHEET Water Division/Land Resource Management Wetlands Bureau <u>Check the Status of your Application</u>



RSA/Rule: RSA 482-A / Env-Wt 311.03(b)(10); Env-Wt 311.10

APPLICANT LAST NAME, FIRST NAME, M.I.: Maloney, Brice

As required by Env-Wt 311.03(b)(10), an application for a standard permit for minor and major projects must include a functional assessment of all wetlands on the project site as specified in Env-Wt 311.10. This worksheet will help you compile data for the functional assessment needed to meet federal (US Army Corps of Engineers (USACE); if applicable) and NHDES requirements. Additional requirements are needed for projects in tidal area; please refer to the <u>Coastal Area</u> <u>Worksheet (NHDES-W-06-079)</u> for more information.

Both a desktop review and a field examination are needed to accurately determine surrounding land use, hydrology, hydroperiod, hydric soils, vegetation, structural complexity of wetland classes, hydrologic connections between wetlands or stream systems or wetland complex, position in the landscape, and physical characteristics of wetlands and associated surface waters. The results of the evaluation are to be used to select the location of the proposed project having the least impact to wetland functions and values (Env-Wt 311.10). This worksheet can be used in conjunction with the <u>Avoidance and Minimization Written Narrative (NHDES-W-06-089)</u> and the <u>Avoidance and Minimization</u> <u>Checklist (NHDES-W-06-050)</u> to address Env-Wt 313.03 (Avoidance and Minimization). If more than one wetland/ stream resource is identified, multiple worksheets can be attached to the application. All wetland, vernal pools, and stream identification (ID) numbers are to be displayed and located on the wetlands delineation of the subject property.

SECTION 1 - LOCATION (USACE HIGHWAY METHODOLOGY)						
ADJACENT LAND USE: FORESTED, RESIDEN	ADJACENT LAND USE: FORESTED, RESIDENTIAL					
CONTIGUOUS UNDEVELOPED BUFFER ZO	NE PRESENT? 🔲 Yes 🔀 No					
DISTANCE TO NEAREST ROADWAY OR OT	HER DEVELOPMENT (in feet): +/- 100'					
SECTION 2 - DELINEATION (USACE HIGHV	VAY METHODOLOGY; Env-Wt 311.10)					
CERTIFIED WETLAND SCIENTIST (if in a non-tidal area) or QUALIFIED COASTAL PROFESSIONAL (if in a tidal area) who prepared this assessment: JOHN P. HAYES, CWS 018						
DATE(S) OF SITE VISIT(S): 6/12/23	DELINEATION PER ENV-WT 406 COMPLETED? 🔀 Yes 🔲 No					
CONFIRM THAT THE EVALUATION IS BASE	D ON:					
🔀 Office and	Office and					
K Field examination.						
METHOD USED FOR FUNCTIONAL ASSESSMENT (check one and fill in blank if "other"):						
🔀 USACE Highway Methodology.						
Other scientifically supported method	(enter name/ title):					

SECTION 3 - WETLAND RESOURCE SUMMARY (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)					
WETLAND ID: 1	LOCATION: (LAT/ LONG) 43.008767/-70.981492				
WETLAND AREA: UNKNOWN. WETLAND GOES OUTSIDE OF SUBJECT AREA	DOMINANT WETLAND SYSTEMS PRESENT: FORESTED				
HOW MANY TRIBUTARIES CONTRIBUTE TO THE WETLAND?	COWARDIN CLASS:				
2	PFO 1/4E				
IS THE WETLAND A SEPARATE HYDRAULIC SYSTEM?	IS THE WETLAND PART OF:				
🗌 Yes 🔀 No	A wildlife corridor or 🔲 A habitat island?				
if not, where does the wetland lie in the drainage basin?	IS THE WETLAND HUMAN-MADE?				
THE END	Yes 🔀 No				
IS THE WETLAND IN A 100-YEAR FLOODPLAIN?	ARE VERNAL POOLS PRESENT?				
Yes 🔀 No	Yes 🛛 No (If yes, complete the Vernal Pool Table)				
ARE ANY WETLANDS PART OF A STREAM OR OPEN-WATER	ARE ANY PUBLIC OR PRIVATE WELLS DOWNSTREAM/				
SYSTEM? Yes No	DOWNGRADIENT? 🛛 Yes 🗌 No				
PROPOSED WETLAND IMPACT TYPE: REQUEST FOR WETLAND BUFFER REDUCTION	PROPOSED WETLAND IMPACT AREA:				
SECTION 4 - WETLANDS FUNCTIONS AND VALUES (USACE H	IGHWAY METHODOLOGY; ENV-WT 311.10)				
The following table can be used to compile data on wetlands in the "Functions/ Values" column refer to the following fund					
1. Ecological Integrity (from RSA 482-A:2, XI)					
2. Educational Potential (from USACE Highway Methodo	logy: Educational/Scientific Value)				
3. Fish & Aquatic Life Habitat (from USACE Highway Met	hodology: Fish & Shellfish Habitat)				
4. Flood Storage (from USACE Highway Methodology: Fl	oodflow Alteration)				
5. Groundwater Recharge (from USACE Highway Metho	dology: Groundwater Recharge/Discharge)				
6. Noteworthiness (from USACE Highway Methodology:	Threatened or Endangered Species Habitat)				
7. Nutrient Trapping/Retention & Transformation (from	USACE Highway Methodology: Nutrient Removal)				
8. Production Export (Nutrient) (from USACE Highway N	lethodology)				
9. Scenic Quality (from USACE Highway Methodology: V	isual Quality/Aesthetics)				
10. Sediment Trapping (from USACE Highway Methodolo	gy: Sediment /Toxicant Retention)				
11. Shoreline Anchoring (from USACE Highway Methodol	ogy: Sediment/Shoreline Stabilization)				
12. Uniqueness/Heritage (from USACE Highway Methodology)					
13. Wetland-based Recreation (from USACE Highway Methodology: Recreation)					
14. Wetland-dependent Wildlife Habitat (from USACE Hig	hway Methodology: Wildlife Habitat)				
First, determine if a wetland is suitable for a particular function and value ("Suitability" column) and indicate the rationale behind your determination ("Rationale" column). Please use the rationale reference numbers listed in Appendix A of USACE <i>The Highway Methodology Workbook Supplement</i> . Second, indicate which functions and values are principal ("Principal Function/value?" column). As described in <i>The Highway Methodology Workbook Supplement</i> , "functions and values can be principal if they are an important physical component of a wetland ecosystem (function only) and/or are considered of special value to society, from a local, regional, and/or national perspective".					

NHDES-W-06-049

FUNCTION S/ VALUES	SUITABILI TY (Y/N)	RATIONALE (Reference #)	Principal Function/Valu E?	IMPORTANT NOTES
1	⊠ Yes □ No	FROM NH METHOD	└──── Yes □──No	PERFORMED ON 6/12/23
2	□ Yes À No	13	口 Yes 减 No	AREAIS RESIDENTIAL ONLY ONE WETLAND TYPE
3	□ Yes ∯ No	l, 15	☐ Yes ☑ No	AREA NOT ASSOCIATED WITH ANY WATER COURSE
4	j∑ Yes □ No	5,6,7,8,9,11	⊠ Yes □ No	THE SUBJECT AREA OF THE WETLAND IS FLAT SOIL TEXTURES ARE SANDY
5	⊠ Yes □ No	$1_{12,14,5,15,16}$	⊠ Yes □ No	SUBJECT WETLENDAREA ABUTS ARE IDENTIAL AREA SOILTEXTURES ARE SANAY
6	∏ Yes ∭X No		□ Yes 資 No	SUBJECTWETLAND AREA IS NOTAGOOD WILDLIFE HABHAT
7	⊡ Yes ⊉ No	3, 4, 9	☐ Yes	SUBJEZT AREAISNOT ASSOCIATED WITHANY NATEVCOUSE SANDY SOILS
8	∏ Yes jX No		口 Yes 页 No	VEGETATION CONSISTS of ANG, HEMLOCKAND FERNS FEW NOTNENT RESOLACES
9	□ Yes) No	11	☐ Yes ☑ No	NO ACCESTRABLE VIEWING LOCATIONS NO VINIQUE ASTHETIC QUALITY SUBJECT PARAHAS NO
10	□ Yes 文 No	6, 8, 9, 3		SUBJECT AREA HAS NO ASSOCIATED WATOR COURCES SANDY SOIL TEXTURES
11	☐ Yes X No	3,8	口 Yes 这 No	SUBJE CTAREA IS FLAT GWD LOW FLOW VOILME SANDY SOIL TEXTURES
12	□ Yes	10	□ Yes ⊠ No	SUBJECT WETLAND AREA IS NOT UNIQUE
13	□ Yes 阗 No		口 Yes 风 No	NO ASSESSIBILITY NORECREATIONAL VALUE
14	□ Yes	1, 3, 7, 8	☐ Yes	SUBJECTAREA 15 RESIDENTIAL WITH FEW FOOD SOURCES

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

Page 3 of 6

NH METHOD FOR THE EVALUATION OF FRESHWATER WETLANDS (revised December, 2015)

Wetland Name/Code:_

1 #

_____ Evaluation Date: <u>6 // </u>

23 Evaluator: JoHN HAYES CWS#018

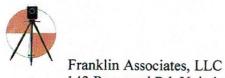
1 – ECOLOGICAL INTEGRITY

	Evaluation Questions	Observations & Notes	Answers Score
1.	Are there land uses in the wetland's watershed that could degrade water quality in the wetland?	ABOTTING MOBILE HOME PARK	 a. Less than 5% of the watershed has land uses that could degrade water quality. b. 5-10% of the watershed has land uses that could degrade water quality. c. > 10% of the watershed has land uses that could degrade water quality.
2.	Is there evidence of fill in the wetland?	NONE	a) Less than 1 % 10 b. From 1-3 % 5 c. More than 3 % 1
3.	What percentage of the wetland has been altered by agricultural activities?	NONE	a) Less than 5 % 10 b. From 5 to 25 % 5 c. More than 25 % 1
4.	What percentage of the wetland has been adversely impacted by logging activity within the last 10 years?	NONE	a. Less than 1% b. From 1 to 10 % c. More than 10 %
5.	How much human activity is taking place in the wetland (e.g. ATV use, trails, cars, dumping of brush and garbage, etc.)?	2 WOOPSROADS IN THE SUBJECT WETLAND AREA	 a. Low: Few trails in use, little or no traffic, and little or no litter. b. Moderate: Some used trails, roads, litter c. High: Many trails, roads, and/or litter
6.	What percentage of the wetland is occupied by invasive plant species?	NONE	a. None10b. 1-5% of the wetland has invasive species5c. > 5% of the wetland has invasive species1
7.	Are there roads, driveways and/or railroads crossing or adjacent to the wetland or come within 500 ft. of the wetland?	MOBILE HOME PARK ABUTS THE Property BEECH HILL ROAD IS WITHIN 500	 a. No roads, driveways or railroads. within 500 ft. of, or in the wetland b. Roads, driveways, railroads are within 500 ft of the wetland c. Roads, driveways, railroads cross, or are adjacent to, the wetland
8.	How much human activity is taking place in the upland within 500 feet of the wetland edge?	SEVERAL HOUSE LOTS AND MOBILE HOME RARK WITHIN 500	 a. Less than 5% or no activity b. Human activity evident in up to 25% of the 500 ft zone c. Human activity evident in more than 25% of the 500 ft zone
9.	What is the percent of impervious surface within 500 feet of the wetland edge?	BEECH HILL RD AND ROAD IN MOBILE HOME PART	a. Less than 3% impervious area within 500 ft of the wetland edge 3-10% impervious area within 500 ft of the wetland edge c. Greater than 10% impervious area within 500 ft of the wetland edge
10	Is there a human-made structure that regulates the flow of water through the wetland?	2 INLET CULVERT From ABOTTING LOT AND BEECH HILL RD	 a. No human made structures present upstream of, or in the wetland. b. One or more human made structures present upstream of, or in the wetland but hydrologic modification is slight c. One or more human made structures present upstream of, or in the wetland that severely block or alter surface water hydrology

AVERAGE SCORE FOR ECOLOGICAL INTEGRITY

(Add scores for each question and divide by 10)

7.2



143 Raymond Rd, Unit 4 Candia, NH 03034

LETTER OF INTENT

June 2, 2023

Town of Exeter Planning Board 10 Front St Exeter, NH 03833

RE: Subdivision: S&T Maloney Rev. Trust 18 Beech Hill Rd Exeter, NH 03833 Tax Map 32 Lot 11

Dear Planning Board,

This letter serves as an explanation that the Maloney's wish to create a residential lot for their son, Brice, from Map 32 Lot 11. Lot 11 currently has 8.74 acres.

The proposed acreages after subdividing are: Lot 11: 5.79 Lot 11-1: 2.94

Proposed lot 11-1 will require State subdivision approval due it being less than the required 5 acres. Lot 11 will not require State subdivision approval.

Sinderely

Jason Franklin



Franklin Associates, LLC 143 Raymond Rd, Unit 4 Candia, NH 03034

April 4, 2023

Town of Exeter Planning Board 10 Front St Exeter, NH 03833

RE: Subdivision: S&T Maloney Rev. Trust 18 Beech Hill Rd Exeter, NH 03833 Tax Map 32 Lot 11

WAIVER REQUESTS

Dear Planning Board,

As part of the subdivision application, we are requesting to reduce the Town of Exeter's "Parking and Structure Buffer" as found in the Exeter Zoning Ordinance 2023, Wetlands Conservation District Article 9.1.3 "Boundaries and Setbacks" from 75' to 50'. Granting this waiver would allow construction of a residential home, driveway, septic system and well in the location as shown on the Subdivision plan and the attached septic system design. The septic system design plan meets all current State requirements without waivers.

We are also requesting to waive the requirement for two test pits due to the limited area in which the leachfield could be placed and maintain the Wastewater System Setback as found in Article 9.1.3.

Sincer

Jason Franklin



Franklin Associates, LLC 143 Raymond Rd, Unit 4 Candia, NH 03034

PROFESSIONALS

Subject Lot:

Map 32 Lot 11 18 Beech Hill Rd Exeter, NH 03833

Wetland Scientist:

John P. Hayes, III, CWS, CSS 7 Limestone Way North Hampton, NH 03820

Surveyor:

James E. Franklin, LLS 143 Raymond Rd, Unit 4 Candia, NH 03034

TEST PIT LOG

Inspected by: Mike Cuomo, CWS, CSS Jason Franklin

Lot Owner: S&T Maloney Family Revocable Trust Location: Map 32 Lot 11 18 Beech Hill Rd Exeter, NH 03833

Test pits inspected on October 5, 2022 Soil Type: 313A Deerfield Loamy Fine Sand Source: www.websoilsurvey.com

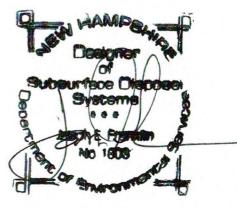
Test Pit 1-

0-7"	10YR 2/2	Loamy Sand	Granular	Friable
7-24"	10YR 6/6	Loamy Sand	Granular	Friable
24-76"	2.5Y 6/3	Fine Sand	Massive	Loose

Notes: ESHWT = 24" Obs. Water @ 66"; No Refusal Estimated Perc Rate: 8min/1"

LOT LOADING

Total area lot 11-1:2.94 AcresSoil Type:313A Deerfield Fine Sandy Loam0.44 Acres (550 GPD)140C Chatfield Hollis Canton0.45 Acres (562 GPD)Total Loading:1,112 GPD(Lot loading totals do not include area within proposed well radii or any wetland areas)

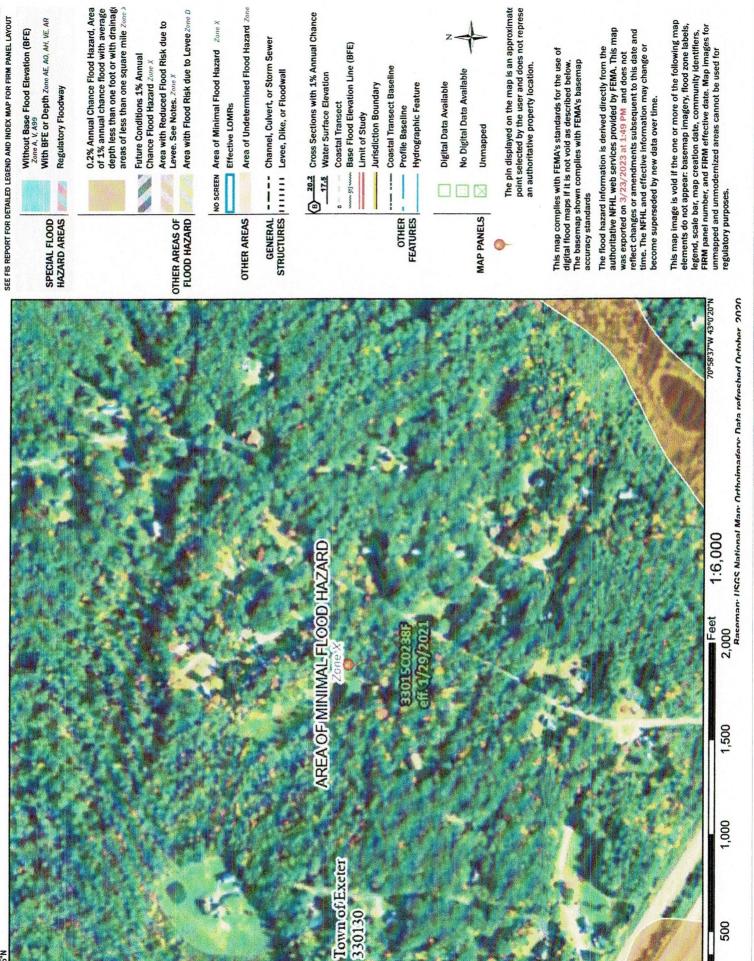


National Flood Hazard Layer FIRMette

"0°59'14"W 43°0'46"



Legend

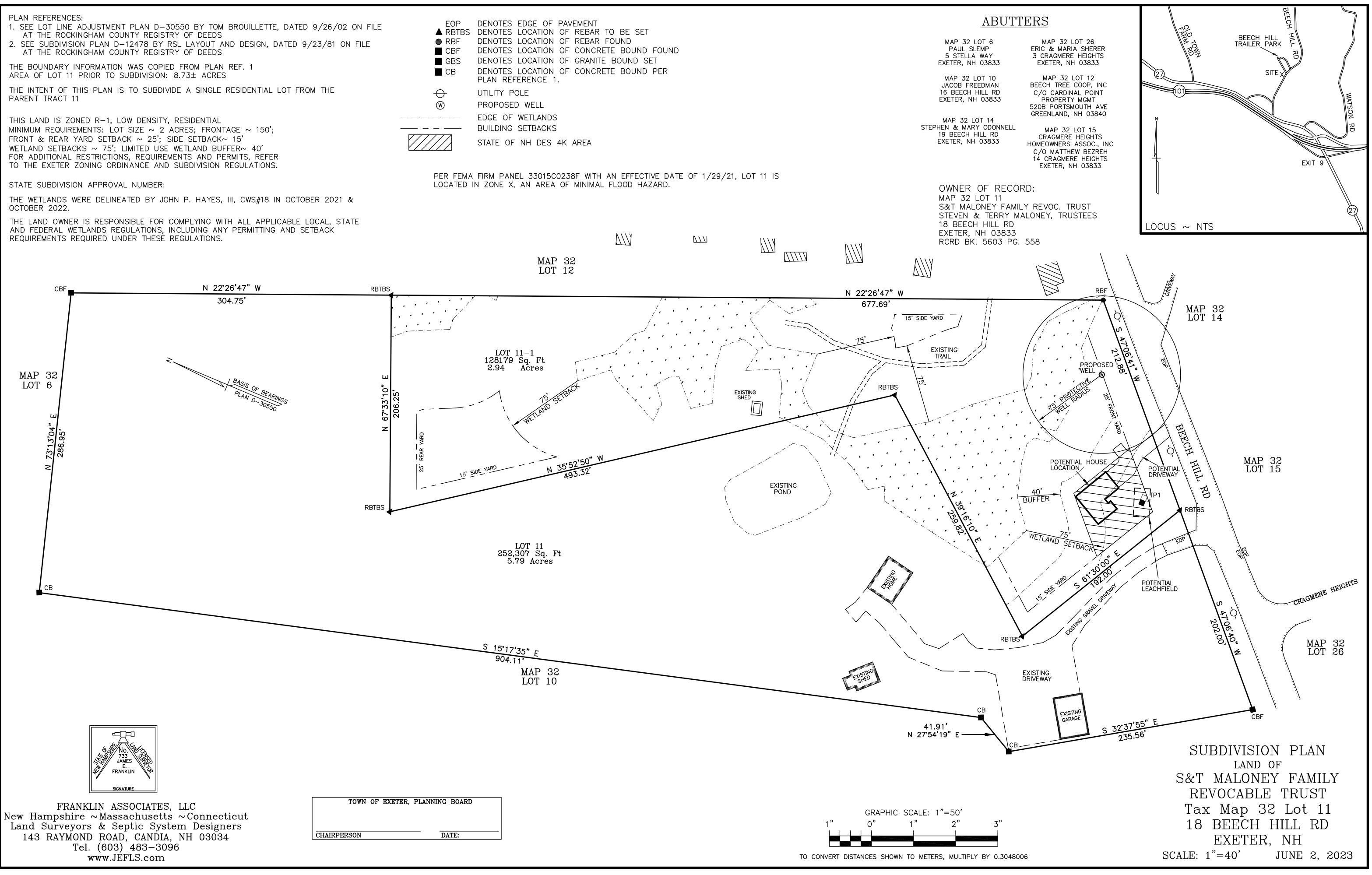


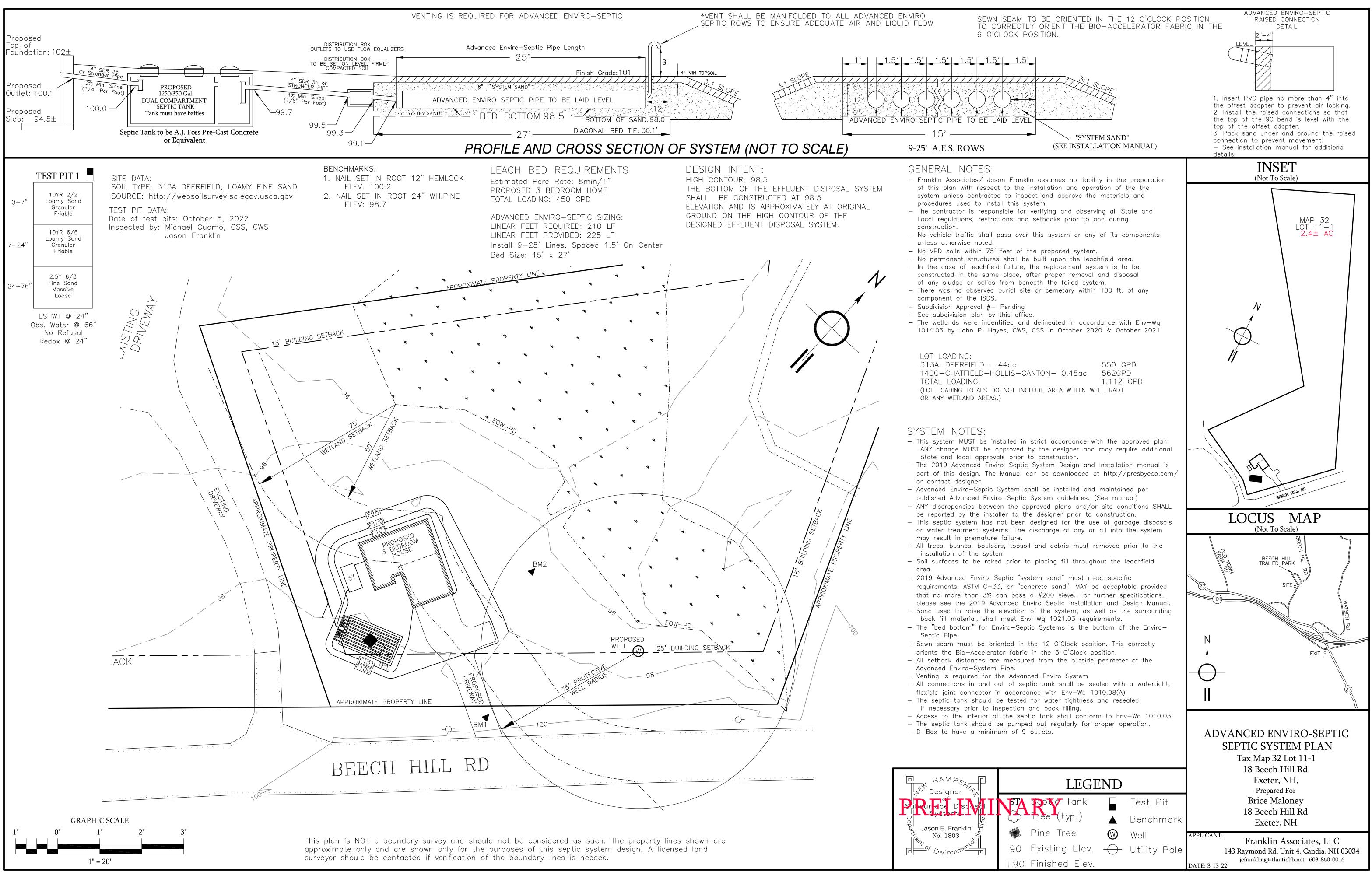
330130

500

250

PLAN REFERENCES: EOP 1. SEE LOT LINE ADJUSTMENT PLAN D-30550 BY TOM BROUILLETTE, DATED 9/26/02 ON FILE AT THE ROCKINGHAM COUNTY REGISTRY OF DEEDS RBF 2. SEE SUBDIVISION PLAN D-12478 BY RSL LAYOUT AND DESIGN, DATED 9/23/81 ON FILE CBF AT THE ROCKINGHAM COUNTY REGISTRY OF DEEDS GBS THE BOUNDARY INFORMATION WAS COPIED FROM PLAN REF. 1 AREA OF LOT 11 PRIOR TO SUBDIVISION: 8.73± ACRES THE INTENT OF THIS PLAN IS TO SUBDIVIDE A SINGLE RESIDENTIAL LOT FROM THE \ominus PARENT TRACT 11 W ____ · ___ · ___ · ___ · ___ · ___ THIS LAND IS ZONED R-1, LOW DENSITY, RESIDENTIAL MINIMUM REQUIREMENTS: LOT SIZE ~ 2 ACRES; FRONTAGE ~ 150'; ____ FRONT & REAR YARD SETBACK ~ 25'; SIDE SETBACK~ 15' WETLAND SETBACKS ~ 75'; LIMITED USE WETLAND BUFFER~ 40' FOR ADDITIONAL RESTRICTIONS, REQUIREMENTS AND PERMITS, REFER





45 Pine Stree

Millennium Engineering, Inc.

P.O. Box 745 (603) 778-0528 Exeter, NH 03833 FAX (603) 772-0689

June 27, 2023

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ic)

Town of Exeter Planning Board 10 Front Street Exeter, NH 03833

Re: Application for Minor Subdivision Map 83 Lot 59, 45 Pine Street Exeter, NH.

Dear Chairman:

The request is made to divide this 3.2-acre parcel into 3 lots. The existing dwelling will reside on Lot 1 which will be 56,758 s.f. in size. Lot 2 shall contain 20,700 s.f. and Lot 3 shall contain 22,701 s.f.

This proposal also has a Conditional Use Permit application as the parcel falls within the 300' setback form wetlands contiguous to the Little River.

Respectfully,

Henry H. Boyd, Jr.

Millennium Engineering Inc.



Conditional Use Permit: Shoreland Protection DistrictUN 2 8 2023 P/H date 8/24/23 In accordance with Zoning Ordinance Article: 9.3

SUBMITTAL REQUIREMENTS:

delineated wetlands

X

Address: Phone:

EXETER PLANNING OFFICE

PB MASE#23-12

(see Conservation Commission and Planning Board meeting dates and submission deadlines) 1. One (1) electronic copy of full application, including plans (color copy if available) 2. Fifteen (15) copies of the Application 3. Fifteen (15) 11"x17" and three (3) full sized copies of the plan which must include: **Existing Conditions** a. Property Boundaries b. Edge of Shoreland and associated Buffer (Shoreland Protection District - SPD) c. Structures, roads/access ways, parking, drainage systems, utilities, wells and wastewater disposal systems and other site improvements Proposed Conditions a. Edge of Shoreland and Shoreland Buffers and distances to the following: Edge of Disturbance i. Structures, roads/access ways, parking, drainage systems, utilities, wells and wastewater ii. disposal systems and other site improvements b. Name and phone number of all individuals whose professional seal appears on the plan 4. If applicant and/or agent is not the owner, a letter of authorization must accompany this application 5. Supporting documents i.e. Letters from the Department of Environmental Services, Standard Dredge and Fill Application and Photos of the property 6. A Town of Exeter Assessors list of names and mailing addresses of all abutters **Required Fees:** Abutter Fee: \$10.00 Recording Fee (if applicable): \$25.00 Planning Board Fee/\$50.00 (included "Substivion application) 201.668812-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: ZAGETHA Address: 45 ANE STR Email Address: Phone: NELSON PROPOSAL Address: DRIVE PROPOSED. Zoning District: Tax Map # 83 Lot# Owner of Record: SAME 59-2 Name: Person/Business performing work Address: outlined in proposal Phone: Professional that Name:

NO WETLANDS ON SITE, BESOURCE LINE USED WAS TAKEN FROM PLAN FOR THOMAS SCAN LON FOR WORK AT MAP 83 LOT 56. Revised 02/2017-CUP/SPD

Town of Exeter Planning Board Application Conditional Use Permit: Shoreland Protection District

Detailed Proposal including intent, project description, and use of property: (Use additional sheet as needed) THERE IS NO INTENT AT THISTIME TO BUILD THE WORK PROPOSED ON THE PLANSET (PROPOSED DWELLING, DRIVEWAY & GRADING FOR LOTS 253), THIS C. U.P. IS TO DEMENSTRATE COMPLIANCE WITH THE REGULATIONS WITHIN THE SHORELAND PROTECTION DISTRICT.

Shoreland Protection District Impact (in square footage):			
Water Body LITTLE RIV	er	LOT2	LOT 3
Temporary Impact	300 Foot SPD 50 foot SPD SPD Building Setback 75 Vegetative Buffer	3,237 837 N/A	5,390 3,145 1,136 406
Permanent Impact	 300 Foot SPD 150 foot SPD SPD Building Setback 75 Vegetative Buffer 	3596 818 N/A N/A	4,275 2,100 789 349
Impervious Lot Coverage	SF of Lot within District SF of Impervious within Dist % of Impervious within Distr	IF Q	20,700 4,275 20.7

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

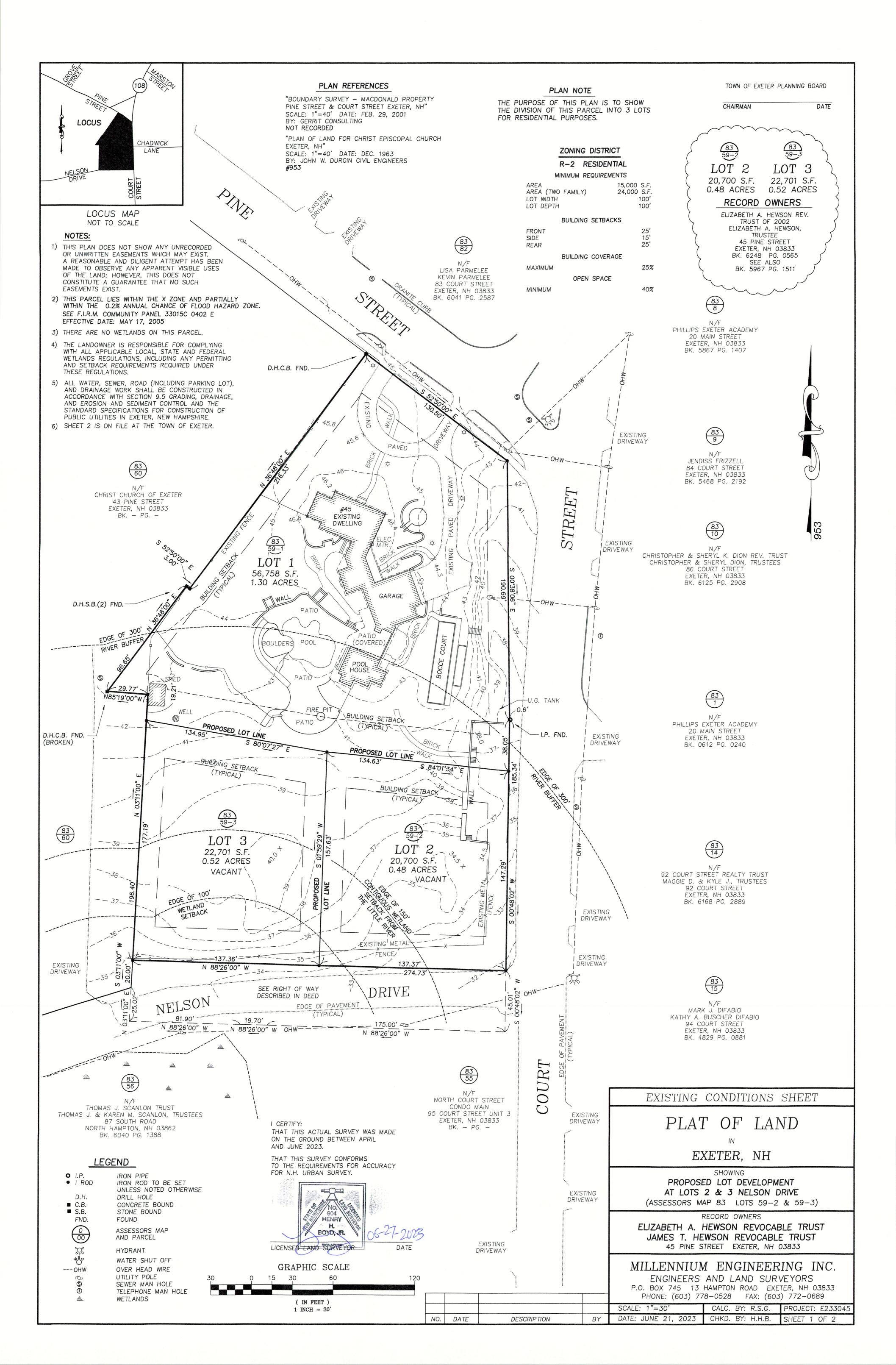
Describe how your proposal meets the conditions of Article 9.3.4.G.2 of the Zoning Ordinance (attached for reference): a, THE RCOFTOP AREAS AND DIRIVEWAY RUNOFF WILL BE DIRECTED TO INFILIRATION TRENCHES, b. PROPOSAL WILL NOT DISCHARGE WASTE WATER OR TOXIC WASTE. C. PROPOSAL IS SEPARATED FROM RIVER BY A ROADWAY AND IS CURRENTLY LAWN AREA. J. COMPLIES. C. SEE a. ABOVE,

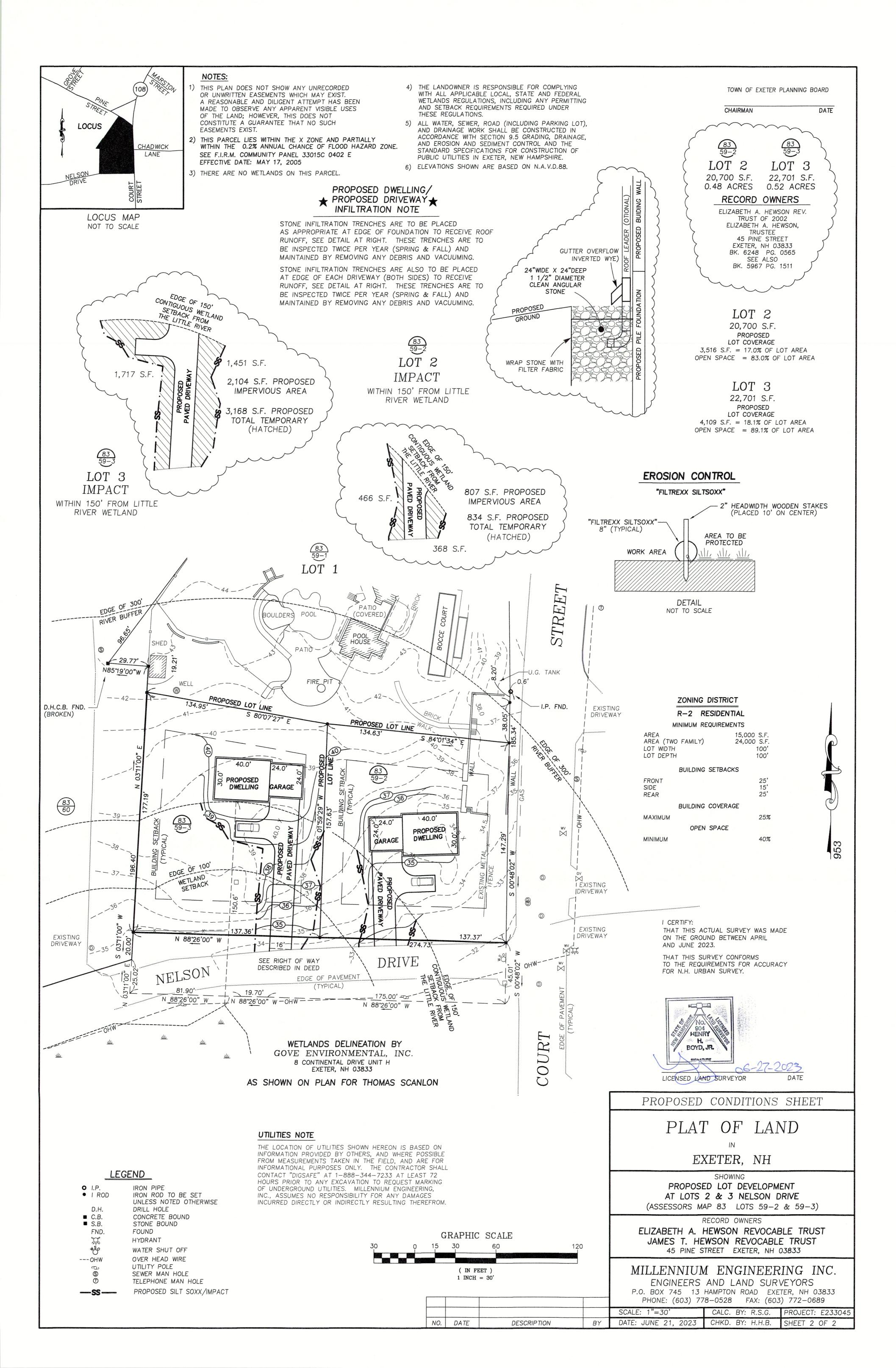


PLEASE LIST ALL PERSONS WHOSE PROPERTY IS LOCATED IN NEW ABUTTERS: HAMPSHIRE AND ADJOINS OR IS DIRECTLY ACROSS THE STREET OR STREAM FROM THE LAND UNDER CONSIDERATION BY THE BOARD. THIS LIST SHALL BE COMPILED FROM THE EXETER TAX ASSESSOR'S RECORDS. \circ 1

TAX MAP <u>83-82</u> NAME <u>LISA & VEVIN PARMALE</u> ADDRESS <u>83 COURT STREET</u> <u>EXETER NH 03833</u> TAX MAP NAME <u>Millennum Engineering</u> ADDRESS <u>13 Hanptin Rolad</u> PDB 745 Exeler NH: 03833
TAX MAP NAME ADDRESS

Please attach additional sheets if needed







Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists



July 28, 2023

Kristen Murphy Conservation and Sustainability Planner Town of Exeter 10 Front Street Exeter, NH 03833 KMurphy@ExeterNH.gov

Re: C3I – 8 Commerce Way – August 8, 2023: Conservation Commission Meeting - CUP Application TFMoran Project: 47201.03

Dear Kristen:

On behalf of our client C-Marine Dynamics Reality, LLC, we respectfully request a meeting with the Conservation Commission on August 8, 2023. Included in this letter are the following materials:

- One Copy Letter of Authorization;
- Fourteen copies Enhanced Biofiltration with Internal Storage Reservoir BMP Performance Curve;
- Fourteen copies Conditional Use Permit Application;
- Fourteen copies 11" x 17" copy of the Site Development Plans Prepared for C-Marine Dynamics Realty, LLC, 8 Commerce Way, Exeter, NH, County of Rockingham, Owned by C-Marines Dynamic Realty, LLC, dated April 14, 2023;
- One copy 22" x 34" copy of the Site Development Plans Prepared for C-Marine Dynamics Realty, LLC, 8 Commerce Way, Exeter, NH, County of Rockingham, Owned by C-Marines Dynamic Realty, LLC, dated April 14, 2023.

Our project consists of an expansion of the existing facility, including additional parking and stormwater improvements, at 8 Commerce Way, Exeter, NH (Tax Map 48. Lot 3). This is a 6.26 acre parcel in the Industrial (I) Zoning District, Wetland Conservation District and Exeter Shoreland Protection District. The majority of this property abuts existing wetland areas. There are no proposed wetland impacts as part of this project, however there are some impacts proposed to the wetland and shoreland buffer. Except for a small portion of the parking area in the wetland and shoreland buffers, the majority of the proposed buffer impacts are for stormwater Best Management Practices (BMP's) to treat and attenuate stormwater flows.

To provide high nitrogen treatment, bioretention areas with internal storage reservoirs (IRS) are being proposed. These systems provided a water quality volume (WQV), the total nitrogen (TN) removal efficiency (RE) is greater than the required 75%. The total phosphorous (TP) removal efficiency is greater than 75% and the total suspended solids (TSS) is in the high 98% removal efficiency. We have attached the BMP performance curve with the removal efficiencies for this system. These treatment efficiencies all meet or exceed the Town standards.



Kristen Murphy July 27, 2023

We would like to schedule a site walk with you. Tuesday, August 1 at 4:00PM would work well with our schedules. If this does not work out for you, we are also free to meet on Wednesday or Thursday around the same time. Please reach out to us to coordinate a time that fits everyone's schedule.

We look forward to discussing this project with the Conservation Commission on August 8, 1012.

Sincerely, TFMoran, Inc.

Jack McTigue, PE, CPESC Project Manager

Project Manager/Typist

cc: Charles Wagner, Joe Ricci



Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists



Authorization

On behalf of C-Marine Dynamics Realty, LLC., owner of land located at 8 Commerce Way, Exeter, New Hampshire, identified as Tax Map 48, Lot 3, this is to confirm authorization for TFMoran, Inc. (TFM) to sign applications as the applicant and represent the owner as an authorized representative. TFM is an authorized representative to join in the application of C-Marine Dynamics Realty, LLC. before the Town of Exeter Technical Review Committee, Town of Exeter Planning Board, and/or any other local, state or federal government or entity.

C-Marine Dynamics Realty, LLC. Exeter, Tax Map 48, Lot 3

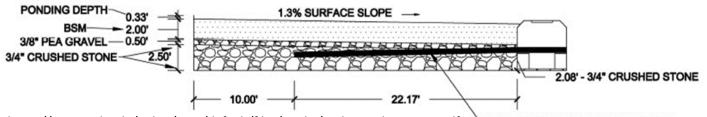
Signature: Printed Name: Date:



TFMoran, Inc. Seacoast Division 170 Commerce Way–Suite 102, Portsmouth, NH 03801 T(603) 431-2222

Enhanced Biofiltration with Internal Storage Reservoir (ISR) Factsheet

Enhanced Biofiltration is a practice the provides temporary storage of runoff for filtering through an engineered soil media, augmented for enhanced phosphorus removal, followed by detention and denitrification in a subsurface internal storage reservoir (ISR) comprised of gravel. Runoff flows are routed through filter media and directed to the underlying ISR via an impermeable membrane for temporary storage. An elevated outlet control at the top of the ISR is designed to provide a retention time of at least 24 hours in the system to allow for sufficient time for denitrification and nitrogen reduction to occur prior to discharge. The design storage capacity for using the cumulative performance curves is comprised of void spaces in the filter media, temporary ponding at the surface of the practice and the void spaces in the gravel ISR. The cumulative phosphorus load reduction curve for this control is intended to be used for systems in which the filter media has been augmented with materials designed and/or known to be effective at capturing phosphorus. If the filter media is not augmented to enhance phosphorus capture, then the phosphorus performance curve for the Bio-Filter should be used for estimating phosphorus load reductions. The University of New Hampshire Stormwater Center (UNHSC) developed the design of this control practice and a design templated can be found at UNHSC's website.



https://www.unh.edu/unhsc/sites/default/files/media/undersized_systems.pdf HDPE GEOMEMBRANE @ 1% SLOPE

	1 0		
		P Load Export Rate ¹	N Load Export Rate ²
Source Category by Land Use	Land Surface Cover	(lbs./acre/year)	(lbs./acre/year)
Commercial (COM) and Industrial (IND)	Directly connected impervious	1.78	15
Multi-Family (MFR) and High-Density			
Residential (HDR)	Directly connected impervious	2.32	14.1
Medium-Density Residential (MDR)	Directly connected impervious	1.96	14.1
Low-Density Residential (LDR) - "Rural"	Directly connected impervious	1.52	14.1

Pollutant Export Rate by Land Use¹

General Equations

Physical Storage Capacity: Depth of Runoff * Drainage Area

Cost: Physical Storage Capacity * Cost Index * Adjustment Factor¹

Yearly Pollutant Removal: Pollutant Load Export Rate * Drainage Area * Efficiency

Cost (2023)^{1,2}

	Materials and Installation Cost (\$/ft ³)	Design Cost (\$/ft³)	Total Cost (\$/ft ³)
Rural	12.12	6.52	18.64
Mixed	24.23	13.05	37.28
Urban	36.35	19.57	55.92

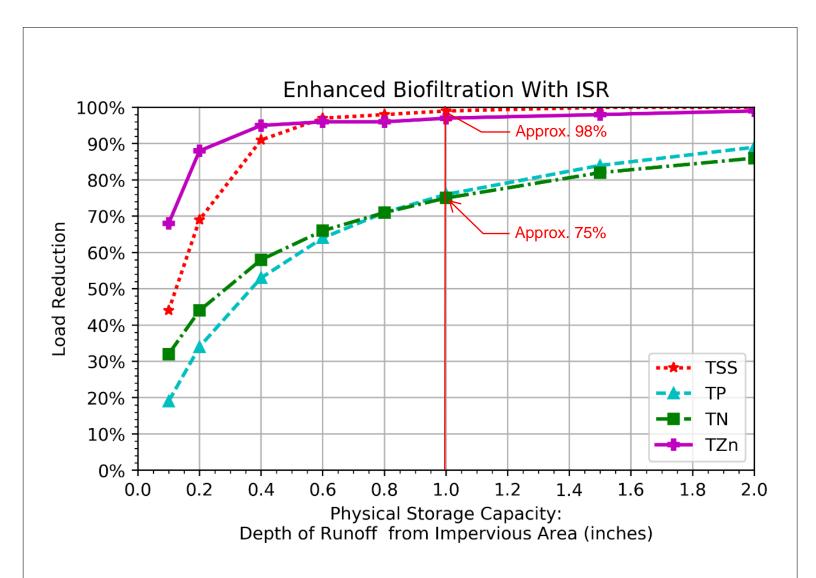
¹ EPA Memorandum "Methodology for developing cost estimates for Opti-Tool." Februrary 20, 2016

² Converted from 2010 to 2023 dollars using U.S. Department of Labor (USDOL). (2012). Bureau of Labor Statistics consumer price index inflation calculator. <u>http://www.bls.gov/data/inflation_calculator.htm</u>

Prepared By:

¹ From NH Small MS4 General Permit, Appendix F

University of New Hampshire Stormwater Center Durham, NH <u>www.unh.edu/unhsc</u> February 2023



Enhanced Biofiltration w/ ISR BMP Performance Table: Long-Term								
Phosphorus & Nitrogen Load Reduction								
BMP Capacity: Depth of RunoffImage: Capacity is a second seco						2.0		
Cumulative TSS Phosphorus Load Reduction	44%	69%	91%	97%	98%	99%	100%	100%
Cumulative Phosphorus Load Reduction	19%	34%	53%	64%	71%	76%	84%	89%
Cumulative Nitrogen Load Reduction	32%	44%	58%	66%	71%	75%	82%	86%
Cumulative Zinc Phosphorus Load Reduction	68%	88%	95%	96%	96%	97%	98%	99%

Town of Exeter



Planning Board Application for <u>Conditional Use Permit</u>: Shoreland Protection District

July 2023

Town of Exeter

Planning Board Application

Conditional Use Permit: Shoreland Protection District

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. Exeter Shoreland Protection District (ESPD): Edge of seasonal high-water mark (HWM) <u>including</u> <u>contiguous wetlands</u> and associated buffer as described in 9.3.3 A-C.
 - --Exeter, Fresh, Squamscott River and
 - Major Tributaries: 300'

- --Upland Extent of Tidal Marsh adj. to Squamscott River: **150'**-- Building Setbacks as defined in 9.3.4.C:
- --Mean High Water Level of Perennial Brooks and Streams in the Exeter, Fresh and Squamscott River Watersheds: **150**'
- 300', 150', or 100'
- --Vegetative Buffer: 75'
- c. Structures, roads/access ways, parking, drainage systems, utilities, wells and wastewater disposal systems and other site improvements

Proposed Conditions

- a. Edge of Shoreland and Shoreland 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. Percent of impervious surface in ESPD
- c. 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 NO LATER THAN 4:00 PM on the day indicated on the Planning Board Schedule of Deadlines and Public Hearings.

APPLICANTName:Jack McTigue/TFMoran, Inc.Address:170 Commerce Way, Suite 102, Portsmouth, NH 03801Email Address:jmctigue@tfmoran.comPhone:603-431-2222PROPOSALAddress:8 Commerce Way, Exeter, NH 03833		0					
Email Address: jmctigue@tfmoran.com Phone: 603-431-2222	APPLICANT	Name: Jack McTigue/TFMoran, Inc.					
Email Address: jmctigue@tfmoran.com Phone: 603-431-2222		Address: 170 Commerce Way, Suite 102, Portsmouth, NH 03801					
Phone: 603-431-2222							
PROPOSAL Address: 8 Commerce Way, Exeter, NH 03833							
	PROPOSAL Address: 8 Commerce Way, Exeter, NH 03833						
Tax Map #_48 Lot#_3 Zoning District: Industrial		Tax Map #_48 Lot#_3 Zoning District: Industrial					
Owner of Record: C-Marine Dynamics Realty, LLC		Owner of Record: C-Marine Dynamics Realty, LLC					
Person/Business Name: Ricci Construction, LLC	Person/Business	Name: Ricci Construction, LLC					
performing work Address: 225 Banfield Rd. Portsmouth, NH 03801	performing work	Address: 225 Banfield Rd. Portsmouth, NH 03801					
outlined in proposal Phone: (603)-436-3112	outlined in proposal	Phone: (603)-436-3112					
Professional that Name: Gove Environmental Services	Professional that	Name: Gove Environmental Services					
delineated wetlands Address: 8 Continental Drive, Exeter, NH 03833	delineated wetlands	Address: 8 Continental Drive, Exeter, NH 03833					
Phone: (603)-778-0644		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)

C3i, Inc. is a business located at 8 Commerce Way in Exeter, NH. The existing building is a 2-story, 8,000 square foot footprint building composed of office space and light industrial work. It was previously permitted by MSC Engineers and constructed in 2016. The land was previously vacant, and the driveway required a wetland crossing with a bridge over Norris Brook. Four stormwater systems were designed to accommodate the development. The building is secluded from surrounding properties and highly screened by native vegetation. It is proposed to add two, 2-story, 4,000 square foot footprint additions to the site. The additions will also be light industrial and office space. It is anticipated that 22 parking spaces will be required to accommodate that additional space. Some existing drainage areas will be removed, and new drainage areas will be constructed to accommodate the increase in impervious areas. A New Hampshire Department of Environmental Services Alteration of Terrain permit is required, as the cumulative area of impact in the past 10 years exceeds 100,0000 square feet.

Shoreland Protection District Impact (in square footage):							
District Impacted: Exeter River 🔲 🛛 Fresh Ri			ver 🗆	Squamscott River			
	Temporary:	(SQ FT.)	Permanent:	(SQ FT.)			
Buffer	300' Buffer		300' Buffer				
Impact	150 Buffer		X 150 Buffer	_16332			
	Building Setback		Building Setbac	:k			
	Veg Buffer		Ueg Buffer				
			x % Impervious (Cover PRE <u>4.6</u> POST	6.7		

Project Proposal Does Not Include Any Prohibited Uses as Defined By 9.3.4.F.

 Image: State of the st

Is a State Shoreland Permit Required? 🗌 Yes 🕱 No

If YES, include filing date or expected filing date:

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

In diants and	-l l	and the second state of Antiple 0.24.0.2 of the Terror of Franker Zerring					
Indicate w	Indicate whether your proposal meets the conditions of Article 9.3.4.G.2 of the Town of Exeter Zoning						
Ordinance	Ordinance.						
Note: W	Note: Written justification for each criterion must be provided to be deemed administratively complete.						
X YES [🗌 No	a. The proposed use will not detrimentally affect the surface water quality of the adjacent river or tributary, or otherwise result in unhealthful conditions.					
X YES [] No	b. The proposed use will discharge no waste water on site other than that normally discharged by domestic waste water disposal systems and will not involve on-site storage or disposal of hazardous or toxic wastes as herein defined.					
X YES [No	c. The proposed use will not result in undue damage to spawning grounds and other wildlife habitat.					
X YES	No	d. The proposed use complies with the use regulations identified in Article 9.3.4 Exeter Shoreland Protection					
		District Ordinance – Use Regulations and all other applicable sections of this article.					
X YES [No	e. The design and construction of the proposed use will be consistent with the intent of the purposes set forth in					
		Article 9.3.1 Exeter Shoreland Protection District Ordinance – Authority and Purpose.					



Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists



July 28, 2023

Kristen Murphy Conservation and Sustainability Planner Town of Exeter 10 Front Street Exeter, NH 03833 KMurphy@ExeterNH.gov

Re: C3I – Exeter, NH – Shoreland CUP Responses to 9.3.4.G TFMoran Project: 47201.03

Dear Kristen:

Below is our response to the Conditional Use criteria for impacts to the Shoreland Protection District.

- *a.* The proposed use will not detrimentally affect the surface water quality of the adjacent river or tributary, or otherwise result in unhealthful conditions.
 - The proposed pavement in the shoreland setback is being captured and treated by stormwater best management practices (BMP's).
 - The (BMP's) proposed in these areas are to treat stormwater prior to it flowing into the wetlands and stream. The primary purpose of these BMP's is to protect the water quality. These BMP's meet NHDES standards for stormwater treatment.
- b. The proposed use will discharge no waste water on site other than that normally discharged by domestic waste water disposal systems and will not involve on-site storage or disposal of hazardous or toxic wastes as herein defined.
 - Wastewater on the site is managed by an existing sewer line extended from Commerce Way, and no hazardous or toxic wastes will be stored or disposed of on-site. The proposed use will not result in undue damage to spawning grounds and other wildlife habitat.
- c. The proposed use complies with the use regulations identified in Article 9.3.4 Exeter Shoreland Protection District Ordinance – Use Regulations and all other applicable sections of this article.
 - The project meets regulations identified in Article 9.3.4 Minium Lot Site, Maximum Lot Coverage, Structures Meeting Conditional Use, Alteration of Terrain Meeting Conditional Use, Vegetated Buffer Impact Meeting Conditional Use, and no prohibited use. Fertilizer restrictions shall be observed in the shoreland 100' setback, except as granted by the planning board for the establishment of new landscaping.
- d. The design and construction of the proposed use will be consistent with the intent of the purposes set forth in Article 9.3.1 Exeter Shoreland Protection District Ordinance Authority and Purpose.
 - The project is consistent with purposes set forth in Artic 9.3.1. Stormwater BMP's are proposed to protect and maintain the water quality. The proposed BMP's are effective in reducing the emission of

TFMoran, Inc. 48 Constitution Drive, Bedford, NH 03110 T(603) 472-4488 www.tfmoran.com



TFMoran, Inc. Seacoast Division 170 Commerce Way–Suite 102, Portsmouth, NH 03801 T(603) 431-2222 total nitrogen, total phosphorus and total suspended solids. Thus, aquatic and terrestrial habitats in this area will be preserved. The site also includes bike paths for recreation that run close to the river and within the natural shoreline (which will still be available for use following construction).

We trust the above responses satisfy any concerns about the shoreland setback impacts. We look forward to presenting this project to you at the August 8, 2023 Conservation Commission Meeting.

Sincerely, **TFMoran**, Inc. ique Jack McTigue, PE, CPESC Prøject Manager

cc: Charles Wagner, Joe Ricci

Town of Exeter



Planning Board Application for <u>Conditional Use Permit</u>: Wetlands Conservation Overlay District

July 2023



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: Jack McTigue/ TFMoran, Inc.					
	Address: 170 Commerce Way, Suite 102, Portsmouth, NH 03801					
	Email Address: jmctigue@tfmoran.com					
	Phone: 603-431-2222					
PROPOSAL	Address: 8 Commerce Way, Exeter, NH 03833					
	Tax Map #_48 Lot#_3 Zoning District: Industrial					
	Owner of Record: C-Marine Dynamics Realty, LLC					
Person/Business	Name: Ricci Construction, LLC					
performing work	Address: 225 Banfield Rd, Portsmouth, NH 03801					
outlined in proposal	Phone: (603)-436-3112					
Professional that	Name: Gove Environmental Services					
delineated wetlands	Address: 8 Continental Drive, 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) C3i, Inc. is a business located at 8 Commerce Way in Exeter, NH. The existing building is a 2-story, 8,000 square foot footprint building composed of office space and light industrial work. It was previously permitted by MSC Engineers and constructed in 2016. The land was previously vacant, and the driveway required a wetland crossing with a bridge over Norris Brook. Four stormwater systems were designed to accommodate the development. The building is secluded from surrounding properties and highly screened by native vegetation. It is proposed to add two, 2-story, 4,000 square foot footprint additions to the site. The additions will also be light industrial and office space. It is anticipated that 22 parking spaces will be required to accommodate the increase in impervious areas. A New Hampshire Department of Environmental Services Alteration of Terrain permit is required, as the cumulative area of impact in the past 10 years exceeds 100,0000 square feet.

Wetland Conservation O	verlay District Impact (in	square fo	otage):	
Temporary Impact	Wetland:	(SQ FT.)	Buffer:	(SQ FT.)
	Prime Wetlands		Prime Wetlands	
	Exemplary Wetlands		Exemplary Wetlands	
	□ Vernal Pools (>200SF)		□ Vernal Pools (>200SF)	
	U VPD		U VPD	
	D PD		D PD	
	Inland Stream		Inland Stream	
Permanent Impact	Wetland:		Buffer:	
	Prime Wetlands		Prime Wetlands	
	Exemplary Wetlands		X Exemplary Wetlands	9424
	□ Vernal Pools (>200SF)		□ Vernal Pools (>200SF)	
	U VPD		🗆 VPD	
	D PD		D PD	
	Inland Stream		x Inland Stream	16332

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

Describe how the proposal meets conditions in **Article 9.1.6.B** of the Zoning Ordinance (attached for reference): The proposal meets Article 9.1.6.B, because the use of the addition is permitted in the underlying zoning district. Much of the addition onto the building and parking lot will be located in places that have been disturbed in the past. The project will also add two additional bioretention areas in order to provide proper stormwater management for the property.

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.;



Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists



July 28, 2023

Kristen Murphy Conservation and Sustainability Planner Town of Exeter 10 Front Street Exeter, NH 03833 KMurphy@ExeterNH.gov

Re: C3I – Exeter, NH - Responses to 9.1.6.B TFMoran Project: 47201.03

Dear Kristen:

Below is our response to the Conditional Use criteria for impacts to the Wetland Buffer.

- 1. That the proposed use is permitted in the underlying zoning district;
 - Buffer impacts are limited to stormwater management areas, parking areas and access to the parking areas. Conditions use permits can be granted for "Site development such as but not limited to construction of roads and other access ways, parking areas, utilities, structures, drainage systems, water impoundment and other site improvements that impact the Wetlands Conservation Overlay District." (9.1.6(A)(1)). The proposed use falls within this category.
- 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;
 - This site is bounded by wetlands. While drainage facilities could be located behind (north of) the proposed addition, this would also encroach upon the wetlands. The impacts would equal or exceed the proposed impacts in the current location.
- 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.
 - See Attached.
- 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;
 - We have minimized impacts to the wetland buffer to the extent feasible. The majority of the proposed buffer impacts are to provide stormwater treatment. The stormwater treatment areas will still act as a buffer to the wetland areas.



- 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;
 - The (BMP's) proposed in these areas are to treat stormwater prior to it flowing into the wetlands. The primary purpose of these BMP's is to protect the water quality. These BMP's meet NHDES standards for stormwater treatment.
- 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;
 - The site occupies the majority of the available space outside of the wetland buffers. While our client is open to this, there is not much non-buffer area available to offer for wetland buffers.
- 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;
 - The Proposed use is permanent, no restoration plan is required in this instance.
- 8. 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.;
 - Alteration of Terrain permit, EPA NPDES ENOI CGP and SWPPP will be acquired before the project is constructed.

We trust the above responses satisfy any concerns about the wetland buffer impacts. We look forward to presenting this project to you at the August 8, 2023 Conservation Commission Meeting.

Sincerely, **TFMoran**, Inc.

Jack McTigue, P Project Managér

cc: Charles Wagner, Joe Ricci

GOVE ENVIRONMENTAL SERVICES, INC



August 1, 2023

Jack McTigue TFMoran, Inc. 48 Constitution Drive, Bedford, NH 03110

Subject: Wetland Delineation & Function-Value Report C3i, Inc. 8 Commerce Way Exeter, NH

Dear Mr. McTigue:

This wetland report is provided in connection with the proposed expansion of the existing C3i facilities at 8 Commerce Way in Exeter, NH. The 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 on February 13, 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 TFMoran, Inc. and are depicted on the plans submitted separately for the Site Plan Approval and a Conditional Use Permit.

There are two main areas of wetland on the property. A large semi-permanently flooded marsh complex (PEM1F)¹ occupies the northwest corner of the property and forms the headwater of Norris Brook which flows south. Several areas of forested poorly drained forested wetland also extend onto the property along the eastern and southern property boundaries. These wetlands are dominated by red maple and highbush blueberry (PFO1E) and are portions of a larger interconnected wetland complex which also drains to Norris Brook off-site to the south. A vernal pool survey was conducted during April of 2023 during which no vernal pools were identified on the property.

¹ Classification of Wetlands and Deepwater Habitats of the United States. USFW Manual FWS/OBS-79/31 (1979).

FUNCTION &VALUE ASSESSMENT

A functional 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 indicating 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 wetlands on the site support a number of functions and values by virtue of their association with both a perennial stream (Norris Brook) and the large protected forest block that constitutes the Henderson Swasey Town Forest. Based on the characteristics of the wetlands and their location in the landscape it



was determined that wildlife habitat, water quality, and flood flow alteration are the principal functions of the wetlands on the site. Significant secondary values include public recreation and aesthetic value. The following sections provide more detail on each of the two main areas of wetland. The ACOE Evaluation forms are attached to this letter.

Marsh Complex

The large marsh complex that forms the headwaters of Norris Brook is predominantly a marsh but contains a diversity of wetland types ranging from aquatic bed to scrub shrub wetland and forested wetland at its edge. This diversity supports significant wetland specific habitat as well as general wildlife habitat in the landscape. Its habitat function is elevated by the large block of unfragmented forest and waterway. Water quality function and flood attenuation are also principal functions of the wetland. These functions are both enabled by its large basin, restricted outlet, dense emergent vegetation, and direct association with Norris Brook. The diverse and expansive character of the wetland combined with easy public access make aesthetics and recreation important secondary values.

Forested Wetland

The forested wetland on the site also supports a primary wildlife function through its association with a protected forest block, Norris Brook, and other nearby wetlands including the marsh complex described above. Since surface water in the poorly drained forested wetland is limited to Norris Brook and brief periods during the spring, the wildlife supported on this site is more general in nature. No vernal pools were identified in the areas of forested wetland on or adjacent to the site. Though comparatively less than the large marsh, water quality function has also been considered a primary function of the forested wetland. This is due to the network of wetland on undulating terrain which creates a diffuse drainage pattern toward Norris Brook. These characteristics may also support flood attenuation function but since its storage capacity appears limited this has been considered a secondary function. Recreation and aesthetic value have been considered secondary because they are more closely associated with the general forest and location in a town forest than with wetland characteristics.

RELATION TO THE PROPOSED DEVELOPMENT

Wetland buffer impacts occur at two main locations located east and west of the existing building. No direct wetland impact is proposed. The functional assessment indicates that the primary functions of the resource areas are related to wildlife habitat, water quality, and flood attenuation, with public aesthetic and recreational value being important secondary values. The potential effects of the proposed buffer impact on these functions and values have been mitigated by the layout of the project and several important project elements.

Wildlife Habitat

The function of the wetland buffer with respect to wildlife habitat on this site is largely one of screening. The project utilizes buffer areas at the edges of the current developed site, some of which consist of maintained lawn or existing stormwater BMPs. At the eastern impact area, the proposed work takes place almost entirely with the limits of the perimeter erosion control established for the original construction and expands over the existing trail at the edge of the wetland. The potential effect on wildlife due to proximity impacts at this location will therefore be virtually the same as existing conditions. Repurposing

> 8 Continental Dr Unit H, Exeter, NH 03833-7507 Ph (603) 778 0644 / Fax (603) 778 0654 www.gesinc.biz info@gesinc.biz

existing lawn or stormwater areas in the buffer will have no effect on wildlife habitat in the wetland. Where impact to intact buffer is proposed (mostly at the western impact area) the impacts do not further segment wildlife habitat or create significant impediments to wildlife movement beyond what is presented by the existing development. Additionally, the more sensitive area directly north of the existing building which contains a long stretch of intact buffer along the large marsh has been avoided. The small potential effects from loss of intact buffer can be further mitigated by restoration of the outer slopes of the proposed stormwater BMPs using native plantings and seed mixes to replace screening to the extent practicable. This effort would be best focused on the on the western impact area where there is comparatively greater loss of intact buffer.

Water Quality

Wetland buffers offer water quality benefits to wetlands directly as well as supplement this wetland function. The potential effects of the buffer impacts proposed by this project will be mitigated by erosion control best management practices and inclusion of highly effective stormwater management. The modest loss of intact buffer along forested wetland or densely vegetated marsh wetland will have little direct effect on the water quality in the wetland or its water quality function.

Flood Attenuation

This function is supported primarily in the large marsh wetland and to a lesser degree in the forested wetland. The modest impacts proposed in the buffer will have no direct impact on the flood attenuation function of the wetlands which will not be impacted or restricted by segmentation. The proposed stormwater management system will mitigate any potential effects of increased runoff from the project.

Aesthetic and Recreational Value

The main aesthetic value lies in the large marsh area. The proposed impacts will have no effect on the view-scape or public access to the area. The recreational value of wetlands is traditionally associated with activities like fishing, hunting, or boating. While those do not apply to this site, Henderson Swansea Town Forest does provide for the enjoyment of the forest and its diverse wetlands through a network of trails. Access to the Town Forest at this location will be maintained and the trail which will be impacted at the eastern impact area will be relocated to the top of the stormwater basin slope. The project will therefore have no overall effect on the aesthetic or recreational value of the wetlands.

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,

6 10-

Brendan Quigley, NHCWS Gove Environmental Services, Inc.

Enc. ACOE Wetland Function Evaluation Forms



Wetland Function-Value Evaluation Form

wetland Function-Value Evaluation Form							
Total area of wetland >20ac Human made? no Is wetland part of a wildlife corridor? YES or a "habitat island"? NO							
Total area of wetland Human made?	Latitude see sketchLongitude and plansPrepared by:BJQDate 8/1/23						
Adjacent land use Town Forest	djacent land useTown Forest Distance to nearest roadway or other development_~30'						
Dominant wetland systems present PFO1E		Contiguous undevelop	ed buff	fer zone present_NO	Wetland Impact: Type_BUFFERArea_~7000 SF		
Is the wetland a separate hydraulic system? NO	If n	ot, where does the wetland lie in	the dr	ainage basin? HIGH	Evaluation based on:		
How many tributaries contribute to the wetland?		Wildlife & vegetation diversity/	abund	ance (see attached list)	Office X Field X Corps manual wetland delineation		
					completed? $Y_{\underline{X}}$ N		
Franciski sur (NZ-1	Suitabilit	y Rationale I	Princi	pal			
Function/Value	Y/N	(Reference #)* I			omments		
Groundwater Recharge/Discharge	Ν	6		signs of bedrock an	d low permeability soils		
Floodflow Alteration	Y	2,3,7,9,15		not directly assoc. with waterway or	floodplain, minimal storage overall in wetland		
Fish and Shellfish Habitat	Ν			no surface water			
Sediment/Toxicant Retention	Y	1,3,4,7	X	receives runoff from surroun	ding devel. difuse flow to Norris Brk		
Nutrient Removal	Y	3,4,7,8,9	X	receives runoff from surrounding devel. difuse flow to Norris Br			
Production Export	Y	1,4,7,12		wildlife food sources	s,berry prod. shrubs, oak		
Sediment/Shoreline Stabilization	Ν			not associated with	surface water		
🕊 Wildlife Habitat	Y	4,8,10,11	X				
Recreation	Y	1,4,5,7,10		assoc with town forest trails, go	od access, largely unrelated to wetland		
Educational/Scientific Value	Ν			private, extensive oppo	ortunity in public area off site		
★ Uniqueness/Heritage	Ν			forested wetland o	nly		
Visual Quality/Aesthetics	Y			associated with town f	orest, limited wetland types		
ES Endangered Species Habitat	Ν			none identified			
Other							

Wetland Function-Value Evaluation Form

	weu	land Function-va	lue	Evaluation Form	
Total area of wetland >20ac Human made? no	Is wetla	nd part of a wildlife corridor?	ΞS	or a "habitat island"?	Wetland I.D. Marsh Wetland Latitude see sketch Longitude and plans
Adjacent land use Town Forest				r other development ~140'	Prepared by: BJQ Date 8/1/23
				_	Wetland Impact:
Dominant wetland systems present PEM1F		Contiguous undevelope	d buff	ter zone present	Type_BUFFERArea_~8500 SF
Is the wetland a separate hydraulic system? NO	If no	ot, where does the wetland lie in	the dr	ainage basin? HIGH	Evaluation based on: Office X Field X
How many tributaries contribute to the wetland?		Wildlife & vegetation diversity/a	ıbunda	ance (see attached list)	Corps manual wetland delineation
	Suitability		rinci		completed? Y <u>X</u> N
Function/Value	Y / N	(Reference #)* F	uncti	ion(s)/Value(s) Co	omments
Groundwater Recharge/Discharge	Y	7		not located in aquife	r, GW interaction unclear
Floodflow Alteration	Y	1,2,4,5,7,11,13	Х	storage potential, h	eadwater area to Norris
Fish and Shellfish Habitat	Ν			marsh, stream hea	dwater area
Sediment/Toxicant Retention	Y	1,3,4,5,10,12,14,15	Х	storage, dense veg, deep organi	c, constricted outlet, headwater to Norris
Nutrient Removal	Y	3,4,5,6,7,8,10,11,13,14, 15	Х	storage, dense veg, deep organic, const	tricted outlet, nut. attenuation, headwater to Norris
Production Export	Y	1,4,7,12		wildlife food source	S
Sediment/Shoreline Stabilization	Ν			wetland does not bo	order surface water/bank
🖢 Wildlife Habitat	Y	1,3,4,5,6,7,8,9,10,11,13,19,21,	Х	intact marsh, diverse veg, connectivit	y with upl and wet habitats, low development
A Recreation	Y	1,4,5,7,10		assoc with town forest trails, go	od access, largely passive enjoyment
Educational/Scientific Value	Ν			private, extensive oppo	ortunity in public area off site
🗙 Uniqueness/Heritage	Ν			none identified	
Visual Quality/Aesthetics	Y	1,2,3,5,6,8		associated with town forest, wildlife habi	tat, good access and views,diverse open wetland
ES Endangered Species Habitat	Ν			potential, not confir	med
Other					

GENERAL INFORMATION

OWNER

MAP 48 LOT 3 C-MARINE DYNAMIC REALTY 11 FIFIELD LN STRATHAM, NH 03885

APPLICANT

C3I, INC 4 MERRILL INDUSTRIAL DRIVE SUITE 108 HAMPTON, NH 03842

RESOURCE LIST

PLANNING/ ZONING DEPARTMENT 10 FRONT STREET EXETER, NH 03833 (603) 773-6112 DAVE SHARPLES, TOWN PLANNER

BUILDING DEPARTMENT 10 FRONT STREET EXETER, NH 03833 (603) 773-6112 DOUGLAS EASTMAN, INSPECTOR

PUBLIC WORKS 13 NEWFIELDS ROAD EXETER, NH 03833 (603) 773-1355 PAUL VLASICH, TOWN ENGINEER

POLICE DEPARTMENT 20 COURT STREET EXETER, NH 03833 (603) 778-772-1212 CHIEF STEPHAN POULAN

FIRE DEPARTMENT 20 COURT STREET EXETER, NH 03833 (603) 772-6128 CHIEF ERIC WILKING

ASSOCIATED WITH

ENVIRONMENTAL SERVICES GOVE ENVIRONMENTAL SERCIES, INC. 8 CONTINENTAL DRIVE, BUILDING 2, UNIT H EXETER, NH 03833-7507 (603) 778-0644

ARCHITECT BRANDON M. HOLBEN, AIA WINTER HOLBEN ARCHITECTURE + DESIGN 7 WALLINGFORD SQUARE UNIT 2099 KITTERY, ME 03904 (207) 994-3104

ABUTTERS

MAP 48 LOT 3 C-MARINE DYNAMICS REALTY LLC 11 FIFIELD LANE STRATHAM, NH 03885

MAP 39 LOT 2 TOWN OF EXETER CONSERVATION COMMISSION 10 FRONT STREET EXETER, NH 03833

MAP 39 LOT 3 TOWN OF EXETER CONSERVATION COMMISSION 10 FRONT STREET EXETER, NH 03833

MAP 47 LOT 9 CKT ASSOCIATES 158 SHATTUCK WAY NEWINGTON, NH 03801

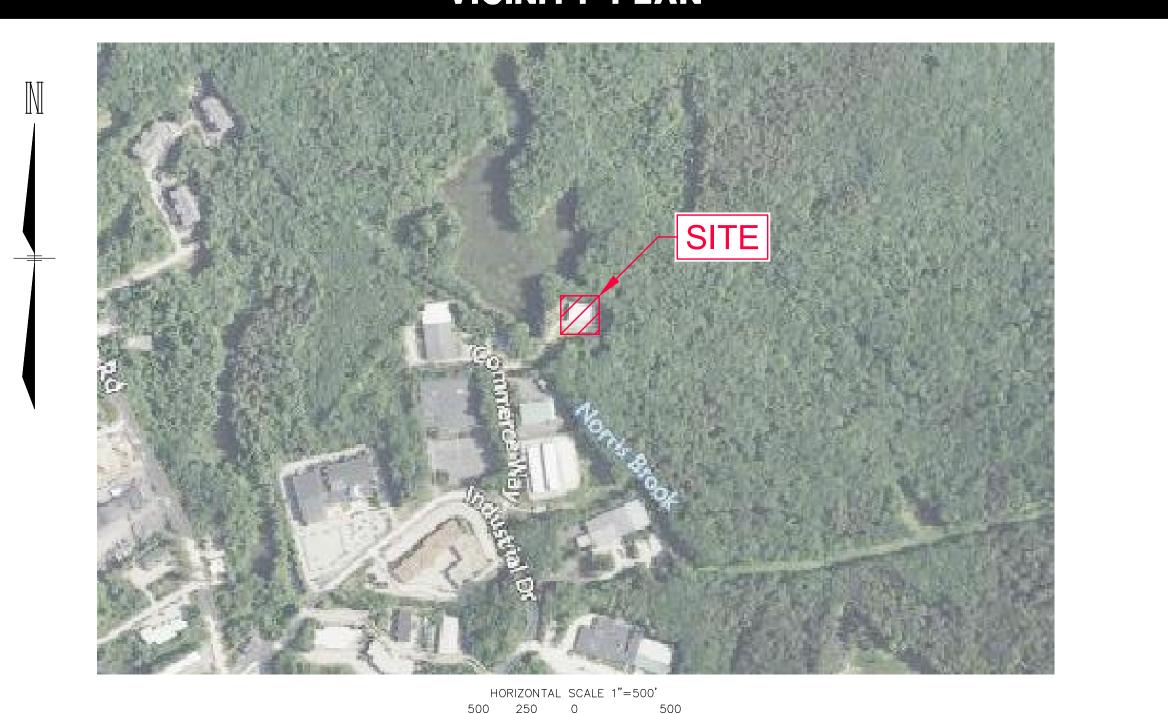
MAP 47 LOT 11 BOAT OF GARTEN LLC PO BOX 4430 MANCHESTER, NH 03108

MAP 48 LOT 2 NORTHEAST DISTRIBUTION LTD 11 COMMERCE WAY EXETER, NH 03833

MAP 48 LOT 4-1 JAMRIS REALTY LLC 6 COMMERCE WAY EXETER, NH 03833

MAP 49 LOT 8 TOWN OF EXETER HENDERSON SWASEY FOREST 10 FRONT STREET EXETER, NH 03833

C-MARINE DYNAMICS REALTY, INC.



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This plan is not effective unless signed by a duly authorized officer of TFMoran, Inc.



SITE DEVELOPMENT PLANS

PREPARED FOR:

8 COMMERCE WAY EXETER, NEW HAMPSHIRE

VICINITY PLAN

REV	DA TE	DESCRIPTION

	INDEX OF SHEETS
SHEET	SHEET TITLE
C-0	COVER SHEET
C-1	NOTES
S-1	EXISTING CONDITIONS PLAN
C-2	WETLAND IMPACT PLAN
C-3	SITE PREPARATION PLAN
C-4	SITE PLAN
C-5	GRADING & DRAINAGE PLAN
C-6	EROSION CONTROL PLAN
C-7	EROSION CONTROL NOTES
C-8	LIGHTING PLAN
C-9	LANDSCAPE PLAN
C-10	DETAILS-1
C-11	DETAILS-2
C-12	DETAILS-3

PERMITS / APPROVALS

NUMBER APPROVED EXPIRES

TOWN CONDITIONAL USE PERMIT TOWN SITE PLAN NHDES WETLANDS NHDES ALTERATION OF TERRAIN EPA NPDES ENOI CGP & SWPPP

THESE PLANS ARE PERMIT DRAWINGS ONLY AND NOT INTENDED FOR CONSTRUCTION OR BIDDING

APPROVED BY THE TOWN OF EXETER PLANNING BOARD

BOARD MEMBER BOARD MEMBER

SITE DEVELOPMENT PLANS

TAX MAP 48 LOT 3 **COVER SHEET** C3I, INC. **8 COMMERCE WAY** EXETER, NH COUNTY OF ROCKINGHAM

OWNED BY **C-MARINE DYNAMICS REALTY, LLC**

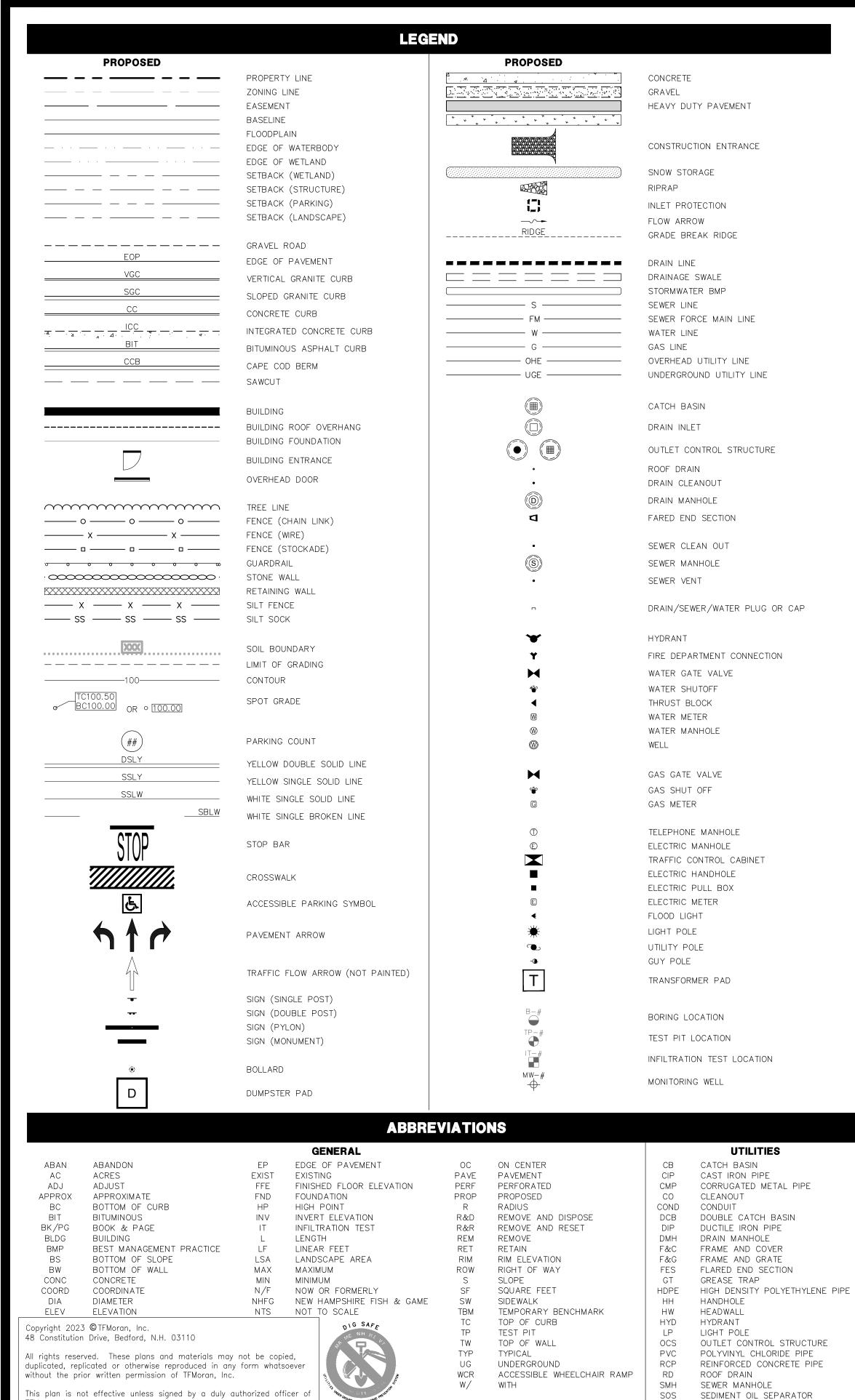
SCALE: NTS

DR CK

APRIL 14, 2023

48 Constitution Drive ivil Engineers Structural Engineers Bedford, NH 03110 Traffic Engineers Phone (603) 472-4488 Land Surveyors Fax (603) 472-9747 _andscape Architects www.tfmoran.com cientists 47201.03 FB CADFILE 47201-03 COVER

C - 0



CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

íFMoran, Inc.

GENERAL NOTES

- 1. THESE PLANS ARE PERMIT DRAWINGS ONLY AND HAVE NOT BEEN DETAILED FOR CONSTRUCTION OR BIDDING.
- 2. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TFMORAN, INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD
- 3. THE SITE LAYOUT PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
- 4. ALL IMPROVEMENTS SHOWN ON THE SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE TOWN PLANNING BOARD.
- 5. ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF EXETER, NEW HAMPSHIRE, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ALL WORK TO CONFORM TO TOWN OF EXETER DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS. ALL WORK WITHIN THE RIGHT-OF-WAY OF THE TOWN AND/OR STATE SHALL COMPLY WITH APPLICABLE STANDARDS. COORDINATE ALL WORK WITHIN THE RIGHT-OF-WAY WITH APPROPRIATE TOWN, COUNTY, AND/OR STATE AGENCY.
- 6. THE SITE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE SECTIONS OF ENV-WQ 1500. THE SITE CONTRACTOR SHALL NOTIFY THE ENGINEER IN ADVANCE OF CONSTRUCTION OF EACH STORMWATER FACILITY TO COORDINATE REQUIRED INSPECTIONS. THE CONTRACTOR SHALL TAKE PROGRESS PHOTOS DURING CONSTRUCTION OF ALL STORMWATER DRAINAGE COMPONENTS AND SEND TO THE ENGINEER.
- 7. SEE EXISTING CONDITIONS PLAN FOR THE HORIZONTAL AND VERTICAL DATUM.
- 8. SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION. VERIFY TBM ELEVATIONS PRIOR TO CONSTRUCTION.
- 9. CONTACT EASEMENT OWNERS PRIOR TO COMMENCING ANY WORK WITHIN THE EASEMENTS.
- 10. PRIOR TO COMMENCING ANY SITE WORK, ALL LIMITS OF WORK SHALL BE CLEARLY MARKED IN THE FIELD.
- 11. SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS, NOT ALL FEATURES ARE DETAILED ON EVERY PLAN. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET.
- 12. TEMORAN, INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
- 13. TEMPORARY FENCING SHALL BE PROVIDED AND COVERED WITH A FABRIC MATERIAL TO CONTROL DUST MITIGATION.
- 14. ALL DEMOLITION SHALL INSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKWAYS, AND ANY OTHER ADJACENT OPERATING FACILITIES. PRIOR WRITTEN PERMISSION FROM THE OWNER/DEVELOPER AND LOCAL PERMITTING AUTHORITY IS REQUIRED IF CLOSURE/OBSTRUCTIONS TO ROADS, STREET, WALKWAYS, AND OTHERS IS DEEMED NECESSARY. CONTRACTOR TO PROVIDE ALTERNATE ROUTES AROUND CLOSURES/OBSTRUCTIONS PER LOCAL/STATE/FEDERAL REGULATIONS.
- 15. REFER TO ARCHITECTURAL PLANS FOR LAYOUT OF BUILDING FOUNDATIONS AND CONCRETE ELEMENTS WHICH ABUT THE BUILDING SUCH AS STAIRS, SIDEWALKS, LOADING DOCK RAMPS, PADS, AND COMPACTOR PADS. DO NOT USE SITE PLANS FOR LAYOUT OF FOUNDATIONS.
- 16. IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- 17. IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- 18. CONTRACTOR'S GENERAL RESPONSIBILITIES:
- A. BID AND PERFORM THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES, SPECIFICATIONS, REGULATIONS, AND STANDARDS AND CONDITIONS OF ALL PROJECT-SPECIFIC PERMITS AND APPROVALS AS LISTED ON THE COVER SHEET TO THESE PLANS OR OTHERWISE REQUIRED.
- B. NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OF PROPOSED LAYOUT AND/OR EXISTING FEATURES.
- C. EMPLOY A LICENSED SURVEYOR TO DETERMINE ALL LINES AND GRADES AND LAYOUT OF SITE ELEMENTS AND BUILDINGS.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE TO BECOME FAMILIAR WITH THE SITE AND ALL SURROUNDING CONDITIONS. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
- E. TAKE APPROPRIATE MEASURES TO REDUCE, TO THE FULLEST EXTENT POSSIBLE, NOISE, DUST, AND UNSIGHTLY DEBRIS. CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT BETWEEN THE HOURS OF 7 AM AND 10 PM, IN ACCORDANCE WITH THE APPLICABLE MUNICIPAL ORDINANCES AND REGULATIONS OF THE TOWN OF EXETER, NEW HAMPSHIRE.
- F. MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY WORK AT ALL TIMES.
- G. IN ACCORDANCE WITH RSA 430:53 AND AGR 3800, THE CONTRACTOR SHALL NOT TRANSPORT INVASIVE SPECIES OFF THE PROPERTY, AND SHALL DISPOSE OF INVASIVE SPECIES ON-SITE IN A LEGAL MANNER.
- H. COORDINATE WITH ALL UTILITY COMPANIES AND CONTACT DIGSAFE (811 OR 888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
- I. PROTECT NEW AND EXISTING BURIED UTILITIES DURING INSTALLATION OF ALL SITE ELEMENTS. DAMAGED UTILITIES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY IFMORAN, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE US OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
- K. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
- L. VERIFY LAYOUT OF PROPOSED BUILDING FOUNDATIONS WITH ARCHITECT AND THAT PROPOSED FOUNDATION MEETS PROPERTY LINE AND/OR WETLAND SETBACKS PRIOR TO COMMENCING ANY FOUNDATION CONSTRUCTION.
- M. PROVIDE AN AS-BUILT PLAN AT THE COMPLETION OF THE PROJECT TO THE TOWN ENGINEER AND PER TOWN REGULATIONS.
- N. IF ANY DEVIATIONS FROM THE APPROVED PLANS AND SPECIFICATIONS HAVE BEEN MADE, THE SITE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS STAMPED BY A LICENSED SURVEYOR OR QUALIFIED ENGINEER ALONG WITH A LETTER STAMPED BY A QUALIFIED ENGINEER DESCRIBING ALL SUCH DEVIATIONS, AND BEAR ALL COSTS FOR PREPARING AND FILING ANY NEW PERMITS OR PERMIT AMENDMENTS THAT MAY BE REQUIRED.

- O. AT COMPLETION OF CONSTRUCTION, THE SITE CONTRACTOR SHALL PROVIDE A LETTER CERTIFYING THAT THE PROJECT WAS COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND A LETTER STAMPED BY A QUALIFIED ENGINEER THAT THEY HAVE OBSERVED ALL UNDERGROUND DETENTION SYSTEMS, INFILTRATION SYSTEMS, OR FILTERING SYSTEMS PRIOR TO BACKFILL, AND THAT SUCH SYSTEMS CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS.
 - 1) ADVANCE WRITTEN NOTICE AT LEAST ONE WEEK PRIOR TO COMMENCING ANY WORK UNDER THE PERMIT AND NOTIFICATION TO AOT VIA THE START OF CONSTRUCTION FORM.
 - 2) IF ANY UNDERGROUND DETENTION SYSTEMS, INFILTRATION SYSTEMS, OR FILTERING SYSTEMS WERE INSTALLED, FOR EACH SUCH SYSTEM: A) REPRESENTATIVE PHOTOGRAPHS OF THE SYSTEM AFTER COMPLETION BUT PRIOR TO BACKFILLING; AND
 - B) A LETTER SIGNED BY A QUALIFIED ENGINEER WHO OBSERVED THE SYSTEM PRIOR TO BACKFILLING, THAT THE SYSTEM CONFORMS TO THE APPROVED PLANS AND SPECIFICATIONS.
 - 3) UPON COMPLETION OF CONSTRUCTION, NOTIFICATION TO AOT VIA THE COMPLETION OF CONSTRUCTION FORM AND WRITTEN CERTIFICATION THAT: A) ALL WORK UNDER THE PERMIT HAS BEEN CONSTRUCTED IN ACCORDANCE
 - WITH THE APPROVED PLANS AND SPECIFICATIONS. B) IF ANY DEVIATIONS FROM THE APPROVED PLANS WERE MADE, WRITTEN DESCRIPTIONS AND AS-BUILT DRAWINGS OF ALL SUCH DEVIATIONS,
- **GRADING & DRAINAGE NOTES**
- 1. THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NHDES ENV-WQ 1500 AS APPLICABLE.
- 2. THE CONTRACTOR SHALL PREPARE, MAINTAIN, AND EXECUTE A S.W.P.P.P. IN ACCORDANCE WITH EPA REGULATIONS AND THE CONSTRUCTION GENERAL PERMIT.
- 3. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO SUBMIT AN eNOI AT LEAST 14 DAYS IN ADVANCE OF ANY EARTHWORK ACTIVITIES AT THE SITE.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE ACCURACY OF THE TOPOGRAPHY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY EARTHWORK BEING PERFORMED ON THE SITE. NO CLAIM FOR EXTRA WORK WILL BE CONSIDERED FOR PAYMENT AFTER EARTHWORK HAS COMMENCED.
- 5. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ABOUT SOIL AND GROUNDWATER CONDITIONS. THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL ENGINEER'S RECOMMENDED METHODS TO ADDRESS ANY SOIL AND GROUNDWATER ISSUES THAT ARE FOUND ON SITE, INCLUDING AND NOT LIMITED TO DEWATERING METHODS, PERIMETER DRAINS AND TIE INTO STORMWATER MANAGEMENT SYSTEM, ETC.
- 6. COORDINATE WITH GEOTECHNICAL/STRUCTURAL PLANS FOR SITE PREPARATION AND OTHER BUILDING INFORMATION.
- 7. COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILED GRADING AT BUILDING, AND SIZE AND LOCATION OF ALL BUILDING SERVICES.
- 8. COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR ROOF DRAIN INFORMATION.
- 9. LIMITS OF WORK ARE SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PROVIDE SMOOTH TRANSITIONS. THIS INCLUDES GRADING, PAVEMENT, CURBING, SIDEWALKS, AND ALIGNMENTS.
- 10. THE CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE, RAMPS, AND LOADING AREAS.
- 11. THE SITE SHALL BE GRADED SO ALL FINISHED PAVEMENT HAS POSITIVE DRAINAGE AND SHALL NOT POND WATER DEEPER THAN 1/4" FOR A PERIOD OF MORE THAN 15 MINUTES AFTER FLOODING.
- 12. ALL ELEVATIONS SHOWN AT CURB ARE TO THE BOTTOM OF CURB UNLESS OTHERWISE NOTED. CURBS HAVE A 6" REVEAL UNLESS OTHERWISE NOTED.
- 13. ALL SIDEWALK AND OTHER CURB REVEALS SHALL BE 6" WITH A TOLERANCE OF PLUS OR MINUS 3/8". WHERE SIDEWALK IS TO BE FLUSH, THE PAVEMENT REVEAL SHALL BE 1/4" WITH A TOLERANCE OF 1/8".
- 14. THE FINISHED GRADE AT BOTTOM OF ALL ACCESSIBLE RAMPS SHALL BE FLUSH WITH PAVEMENT WITH A TOLERANCE OF PLUS OR MINUS 1/4".
- 15. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE PRIOR TO INSTALLATION OF FINISHED PAVEMENT.
- 16. ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS AND SHALL MEET LOCAL STANDARDS AND THE REQUIREMENTS OF THE LATEST NHDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION AND THE NHDOT STANDARD STRUCTURE DRAWINGS UNLESS OTHERWISE NOTED
- 17. STORMWATER DRAINAGE SYSTEM SHALL BE CONSTRUCTED TO LINE AND GRADE AS SHOWN ON THE PLANS. CONSTRUCTION METHODS SHALL CONFORM TO NHDOT STANDARD SPECIFICATIONS, SECTION 603. CATCH BASINS AND DRAIN MANHOLES SHALL CONFORM TO SECTION 604. ALL CATCH BASIN GRATES SHALL BE TYPE B AND CONFORM TO NHDOT STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 18. NO FILL SHALL BE PLACED IN ANY WETLAND AREA.
- 19. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY T CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMM
- 20. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL REC LOAM, SEED, FERTILIZER, AND MULCH.
- 21. DENSITY REQUIREMENTS: MINIMUM DENSITY*

95%

95%

I OCATION BELOW PAVED OR CONCRETE AREAS TRENCH BEDDING MATERIAL AND SAND BLANKET BA

BELOW LOAM AND SEED AREAS 90% *ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSI OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDAN ASTM D-1557, METHOD C. FIELD DENSITY TESTS SHALL BE MADE IN ACCORDA ASTM D-1556 OR ASTM D-6938.

REV	DA TE	DESCRIP TION

TAPPING SLEEVE, VALVE, AND BOX

TSV

UTILITY POLE

UTILITY NOTES

- STAMPED BY A QUALIFIED ENGINEER, SHALL BE PROVIDED.

- 1. LENGTH OF PIPE IS FOR CONVENIENCE ONLY. ACTUAL PIPE LENGTH SHALL BE DETERMINED IN THE FIELD.
- 2. ALL PROPOSED UTILITY WORK, INCLUDING MATERIAL, INSTALLATION, TERMINATION, EXCAVATION, BEDDING, BACKFILL, COMPACTION, TESTING, CONNECTIONS, AND CONSTRUCTION SHALL BE COORDINATED WITH AND COMPLETED IN ACCORDANCE WITH THE APPROPRIATE REQUIREMENTS, CODES, AND STANDARDS OF ALL CORRESPONDING UTILITY ENTITIES AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT "DIGSAFE" (811) AT LEAST 72 HOURS BEFORE DIGGING.
- 4. COORDINATE ALL WORK ADJACENT TO PROPOSED BUILDINGS WITH ARCHITECTURAL BUILDING DRAWINGS. CONFIRM UTILITY PENETRATIONS AND INVERT ELEVATIONS ARE COORDINATED PRIOR TO INSTALLATION.
- 5. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. THE EXACT LOCATION OF NEW UTILITY CONNECTIONS SHALL BE DETERMINED BY THE CONTRACTOR IN COORDINATION WITH UTILITY COMPANY, COUNTY AGENCY, AND/OR PRIVATE UTILITY COMPANY
- 7. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE UTILITY INSTALLATION COMPLETE AND OPERATIONAL.
- 8. ALL UTILITY COMPANIES REQUIRE INDIVIDUAL CONDUITS. CONTRACTOR TO COORDINATE WITH TELEPHONE, CABLE, AND ELECTRIC COMPANIES REGARDING NUMBER, SIZE, AND TYPE OF CONDUITS REQUIRED PRIOR TO INSTALLATION OF ANY CONDUIT.
- 9. SANITARY SEWER SHALL BE CONSTRUCTED TO THE STANDARDS AND SPECIFICATIONS AS SHOWN ON THESE PLANS. ALL SEWER MAINS AND FITTINGS SHALL BE PVC AND SHALL CONFORM TO ASTM F 679 (SDR 35 MINIMUM). FORCE MAINS AND FITTINGS SHALL CONFORM TO NH CODE OF ADMINISTRATIVE RULES ENV-WQ 700. ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH NH CODE OF ADMINISTRATIVE RULES ENV-WQ 700. SANITARY MANHOLES SHALL CONFORM TO NHDES WATER DIVISION WASTEWATER ENGINEERING BUREAU STANDARDS AND SPECIFICATIONS SHOWN HEREON.
- 10. THE ISDS (SEPTIC SYSTEM) SHALL RECEIVE ISDS APPROVAL FROM NHDES SUBSURFACE SYSTEMS BUREAU. PRIOR TO CONSTRUCTION AND PRIOR TO OPERATION OF THE ISDS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CONSTRUCTION APPROVAL AND APPROVAL TO OPERATE FROM NHDES SUBSYSTEMS BUREAU, AND ANY OTHER STATE AND LOCAL PERMITS AND APPROVALS.
- 11. ON-SITE WATER DISTRIBUTION SHALL BE TO TOWN OF EXETER STANDARDS AND SPECIFICATIONS. WATER MAINS SHALL HAVE A MINIMUM OF 5.5' COVER. WHERE WATER PIPES CROSS SEWER LINES A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN THE TWO OUTSIDE PIPE WALLS SHALL BE OBSERVED. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER SHALL BE 10' MINIMUM. WHERE A SANITARY LINE CROSSES A WATER LINE, SEWER LINE MUST BE CONSTRUCTED OF FORCE MAIN MATERIALS (PER ENV-WQ 704.08) FROM BUILDING OR MANHOLE TO MANHOLE, OR SUBSTITUTE RUBBER-GASKETED PRESSURE PIPE FOR THE SAME DISTANCE. WHEN SANITARY LINES PASS BELOW WATER LINES, LAY PIPE SO THAT NO JOINT IN THE SANITARY LINE WILL BE CLOSER THAN 6' HORIZONTALLY TO THE WATER LINE.
- 12. THRUST BLOCKS SHALL BE PROVIDED AT ALL LOCATIONS WHERE WATER LINE CHANGES DIRECTIONS OR CONNECTS TO ANOTHER WATER LINE.
- 13. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT AND WIRING TO ALL SIGNS AND LIGHTS. CONDUIT TO BE A MINIMUM OF 24" BELOW FINISH GRADE.
- 14. ALL PROPOSED UTILITIES SHALL BE UNDERGROUND. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES.
- 15. THE CONTRACTOR SHALL ARRANGE AND PAY FOR ALL INSPECTIONS, TESTING, AND RELATED SERVICES AND SUBMIT COPIES OF ACCEPTANCE TO THE OWNER, UNLESS OTHERWISE INDICATED.
- 16. PROVIDE PERMANENT PAVEMENT REPAIR FOR ALL UTILITY TRENCHES IN EXISTING ROAD OR PAVEMENT TO REMAIN. SAW CUT TRENCH, PAVEMENT, AND GRANULAR BASE THICKNESS TO MATCH EXISTING PAVEMENT. OBTAIN ALL PERMITS REQUIRED FOR TRENCHING
- 17. UNLESS OTHERWISE SPECIFIED, ALL UNDERGROUND STRUCTURES, PIPES, CHAMBERS, ETC. SHALL BE COVERED WITH A MINIMUM OF 18" OF COMPACTED SOIL BEFORE EXPOSURE TO VEHICLE LOADS.

18. THE PROPERTY WILL BE SERVICED BY THE FOLLOWING: DRAINAGE PRIVATE SEWER MUNICIPAL MUNICIPAL WATER GAS UNITIL ELECTRIC UNITII FAIRPOINT COMMUNICATIONS TELEPHONE

COMCAST

CABLE

HE MEDIATE AREA.		SIT	ED	EV	ELOPME		F PLANS
CEIVE 6" ACKFILL TY AT THE NCE WITH ANCE WITH		TAX MAP 48 LOT 3 <u>NOTES</u> C3I, INC. 8 COMMERCE WAY EXETER, NH COUNTY OF ROCKINGHAM OWNED BY C-MARINE DYNAMICS REALTY, LLC					3 FAM
	S	SCALE: NTS					APRIL 14, 2023
		I	FR	R	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	Bedf Phor Fax	Constitution Drive ford, NH 03110 ne (603) 472–4488 (603) 472–9747 .tfmoran.com
	- F	47201.03	DR	FB	_		C-1
DR CK			СК	CADFILE	47201-03 NOTES		

LEGEND):				
MAP 48 LOT 3 AC	ASSESSORS MAP/ LOT NUMBER AIR CONDITIONING UNIT				
ACP A.G.	ASBESTOS CONCRETE PIPE ABOVE GRADE				POTENTIAL VERNAL POOL P \int G.E.S. "NEEDS SPRING SUR"
BK. PG. BRP	BOOK/PAGE BIO-RETENTION POND		FOUND	DRILL HOLE	
CB CHB	CATCH BASIN CHORD BEARING			06/13/16	ىلىد يىلد يىلد ي
CHL CONC.	CHORD LENGTH CONCRETE			559°21'56"E	
DI DMH	DUCTILE IRON DRAIN MANHOLE			23.81'	(515B)
EL. EM EP	ELEVATION ELECTRIC METER EDGE OF PAVEMENT		FOUND DRILL	HOLE	The ster in ANDS the
FB FF	FORE BAY FINISHED FLOOR			/13/16 28	EDGE OF WEILAND (SEE NOTE 13B)
GM HDPE	GAS METER HIGH DENSITY POLYETHELYNE		<u></u>	ж ж <u>10,8</u>	
INV.	INVERT LENGTH		للد علاد		
NET N/F	NEW ENGLAND TELEPHONE NOW OR FORMERLY			" IRON ROD	445C 132 OCS #1344
PS PVC	PRESSURE SEWER POLYVINYL CHLORIDE		(0.3' Å.G.) 06/13/16	132 − OCS #1344 R. RIM=132.92 - III Fi34 INV=129.47
OCS R	OUTLET CONTROL STRUCTURE RADIUS		ster FOUN	D DRILL_HOLE	
RCP RCRD	REINFORCED CONCRETE PIPE ROCKINGHAM COUNTY			06/13/16 06	136
SBC	REGISTRY OF DEEDS SLOPE BITUMINOUS CURVE		xiliz xiliz	S64°38'55"E 16.10'	
S.F. SGC	SQUARE FEET SLOPED GRANITE CURB		FOUND 1/4" IRON ROD	L DUN	0 0 0 5 #1345 - F RIM=133.08 INV=130.18 - 13
SMH SSGW	SEWER MANHOLE SUB-SURFACE GRAVEL WETLAND		(0.4' A.G.) 06/13/16		SBC
SWL UGU	SINGLE WHITE LINE UNDERGROUND UTILTIES		SET IRON 09/13		- 136- EP
UP 6P	UTILITY POLE 6" VERTICAL PIPE			445B	
$\stackrel{\Delta}{\textcircled{\bullet}}$	DELTA DRILL HOLE FOUND/SET			8" HDPE	STORAGE CONTAINER
\bigcirc	IRON PIPE/ROD FOUND BOUND FOUND		FOUND DRILL HOLE 06/13/16	INV.=132.6	DMH #1176 RIM=136.81
O AC	BOLLARD AIR CONDITIONER		<u>9 LOT 2</u>	STR 1 30	A = 132.93
¢	GUY WIRE LIGHT POLE		F EXETER T STREET	REFRIGERATION L	W/ = 13215
L D	UTILITY POLE		NH 03833		AL SPRINKL
	DRAIN MANHOLE CATCH BASIN			AC UNITS(4)	
⊕ ⊤	CATCH BASIN ROUND TRANSFORMER	FC	06/13/16	93B)	(699)
S	SEWER MANHOLE			332	PO.
cv K	GAS VALVE		J i		
Ĕ.	HANDICAP PARKING Hydrant		فد عاد عاد		
₹ E	WATER SHUT OFF		عقد عقد	(445D)	
₩V N	WATER GATE VALVE				138 conc.
\bigcirc	SIGN FLARED END SECTION	-	<u>u</u>		TRAI
	BOULDERS				STRUCTURAL
	BOUNDARY LINE STRUCTURE SETBACK		ste ste st		SETBACK (43B)
	SETBACK LINE 150' NORRIS BROOK BUFFER		.str	32	
	WETLAND BUFFER EDGE OF WETLAND			(445C)	
	TREE LINE OVERHEAD UTILITIES		×** ×** / /		50' WETLANDS BUFFER
W	WATER LINE DRAIN LINE				/(445D) / =
S	SEWER LINE GAS LINE				
$\frac{G}{100}$	EXISTING CONTOUR		* / / / /		
	GUARDRAIL STONE WALL		* Lut	445E	
	CONCRETE	MAP 39 LOT 3		130	128
		N/F TOWN OF EXETER	* (5,5)		
	CRUSHED STONE	10 FRONT STREET EXETER, NH 03833		the state of the s	علا علا علا علا
		RCRD BK#3667 PG#24	70	~	
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FOR REVIEW

DATE

LICENSED LAND SURVEYOR

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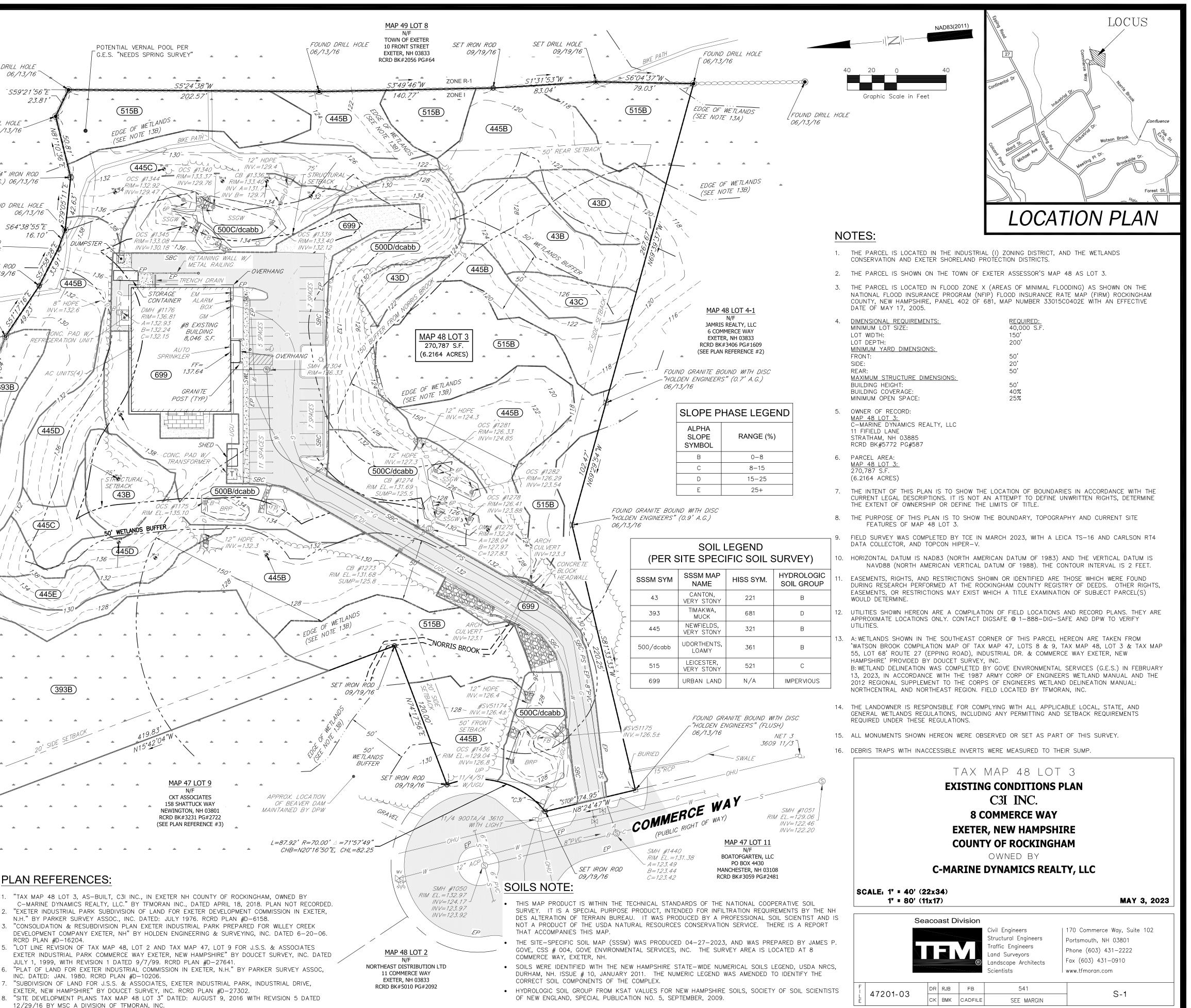
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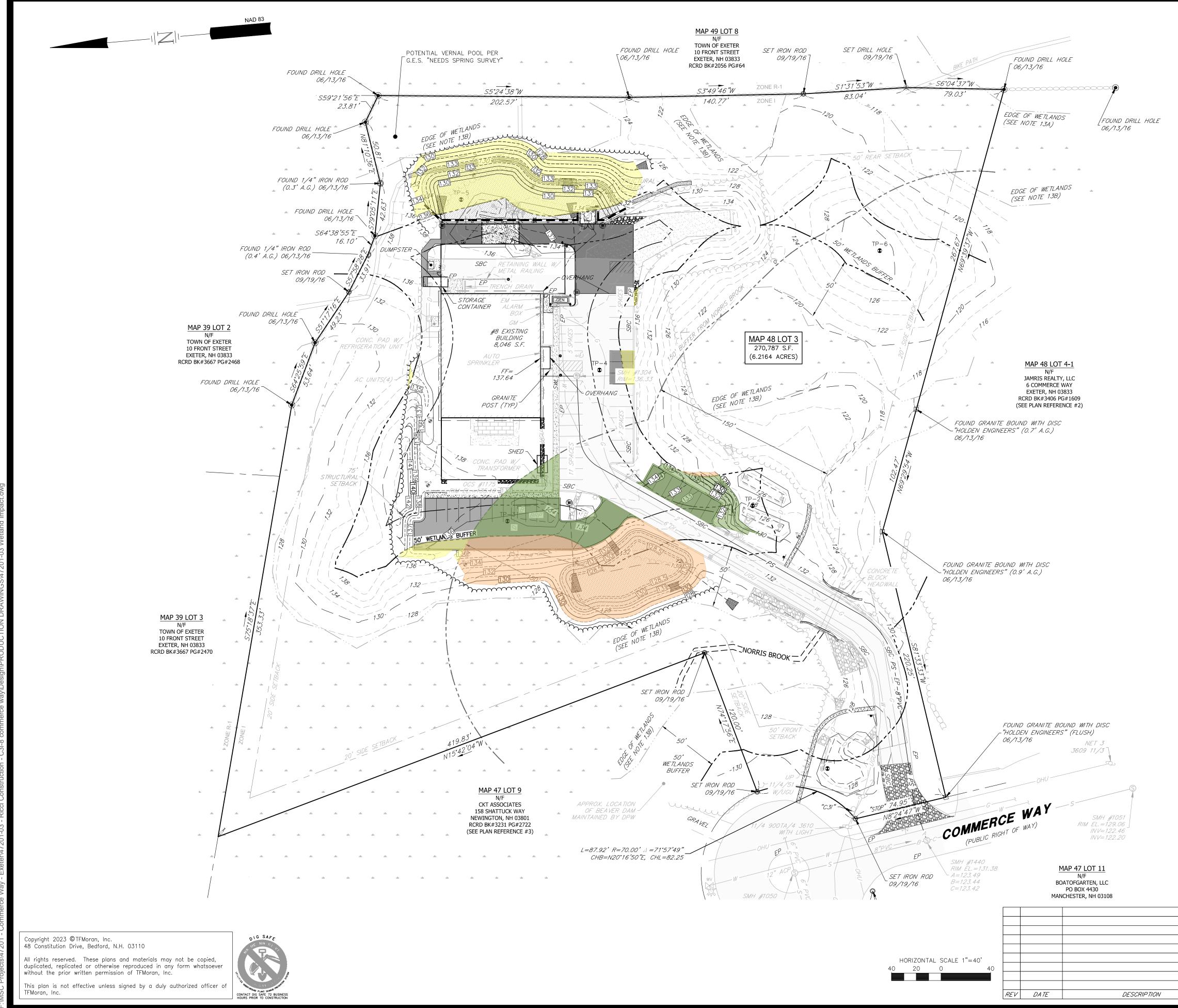
This plan is not effective unless signed by a duly authorized officer of TFMoran, Inc.



PLAN REFERENCES:

- 1. "TAX MAP 48 LOT 3, AS-BUILT, C3I INC., IN EXETER NH COUNTY OF ROCKINGHAM, OWNED BY
- 2. "EXETER INDUSTRIAL PARK SUBDIVISION OF LAND FOR EXETER DEVELOPMENT COMMISSION IN EXETER, N.H." BY PARKER SURVEY ASSOC., INC. DATED: JULY 1976. RCRD PLAN #D-6158.
- DEVELOPMENT COMPANY EXETER, NH" BY HOLDEN ENGINEERING & SURVEYING, INC. DATED 6-20-06. RCRD PLAN #D-16204.
- 5. "LOT LINE REVISION OF TAX MAP 48, LOT 2 AND TAX MAP 47, LOT 9 FOR J.S.S. & ASSOCIATES JULY 1, 1999, WITH REVISION 1 DATED 9/7/99. RCRD PLAN #D-27641.
- 6. "PLAT OF LAND FOR EXETER INDUSTRIAL COMMISSION IN EXETER, N.H." BY PARKER SURVEY ASSOC, INC. DATED: JAN. 1980. RCRD PLAN #D-10206 7. "SUBDIVISION OF LAND FOR J.S.S. & ASSOCIATES, EXETER INDUSTRIAL PARK, INDUSTRIAL DRIVE,
- EXETER, NEW HAMPSHIRE" BY DOUCET SURVEY, INC. RCRD PLAN #D-27302. 8. "SITE DEVELOPMENT PLANS TAX MAP 48 LOT 3" DATED: AUGUST 9, 2016 WITH REVISION 5 DATED 12/29/16 BY MSC A DIVISION OF TFMORAN, INC.





LEGEND

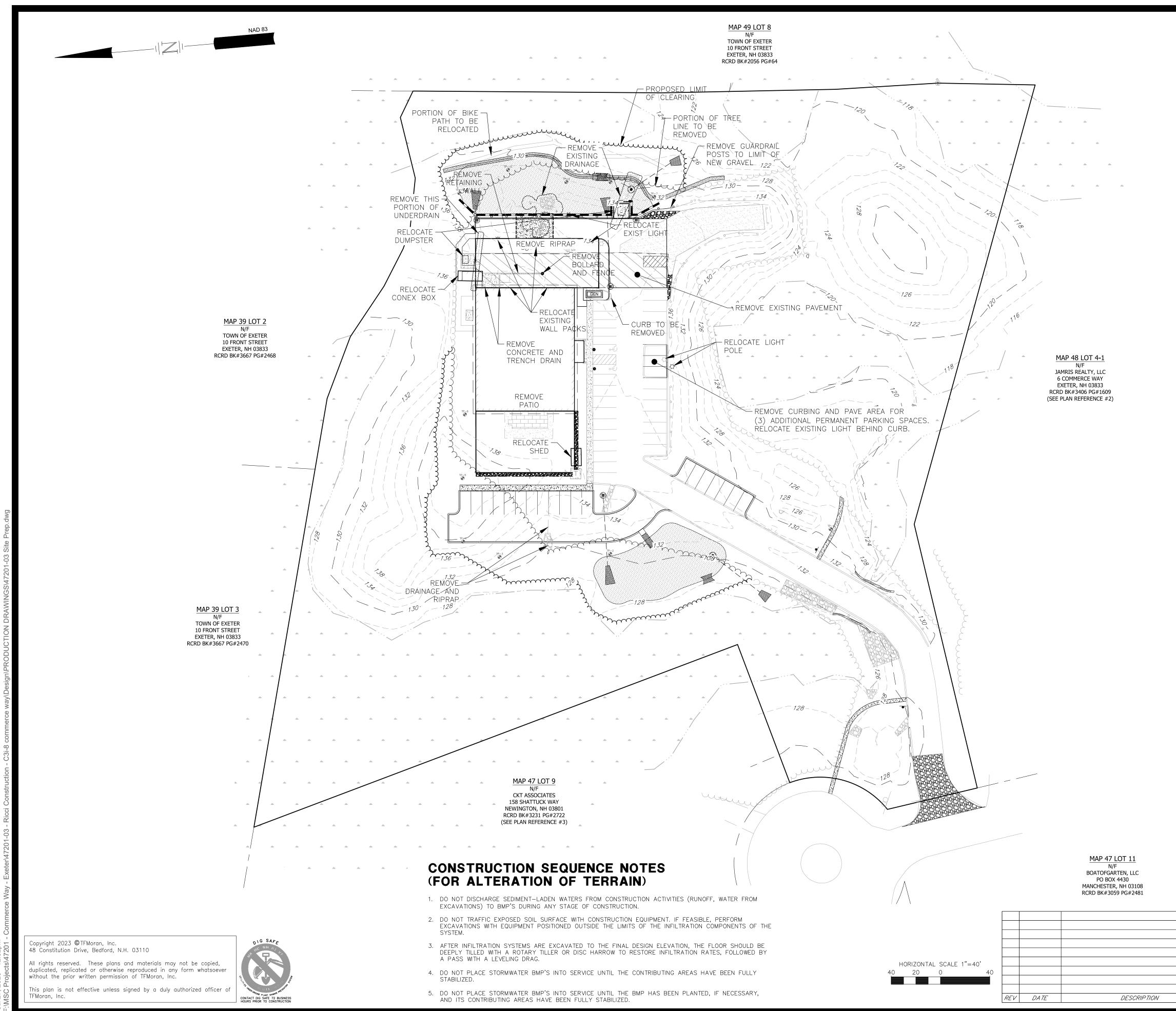
EP	PROPOSED EDGE OF PAVEMENT		PROPOSED WETLAND
LF	LINEAR FEET		BUFFER IMPACT
TYP	TYPICAL		PROPOSED INLET STREAM BUFFER IMPACT
∘ LP	PROPOSED LIGHT POLE		
	PROPERTY LINE		PROPOSED INLET STREAM AND WETLAND BUFFER IMPACT
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	EXISTING TREELINE		
	PROPOSED TREELINE	RURU	PROPOSED GRAVEL
· · · ·	EXISTING EDGE OF WETLANDS		
	EDGE OF WETLANDS BUFFER		PROPOSED CONCRETE
	PROPERTY LINE		
علاد عائد عائد عائد	EXISTING WETLANDS		

WETLAND IMPACT SUMMARY					
DIRECT WETLAND IMPACT	0 S.F.				
PERENNIAL STREAM IMPACT (36 LF X 3)	0 S.F.				
50' WETLAND BUFFER IMPACT PERMANENT	9424 S.F.				
50' WETLAND BUFFER IMPACT TEMPORARY	0 S.F.				
100' INLAND STREAM BUFFER IMPACT PERMANENT	6418 S.F.				
100' INLAND STREAM BUFFER IMPACT TEMPORARY	0 S.F.				
STREAM AND WETLAND BUFFER IMPACT PERMANENT	9914 S.F.				
STREAM AND WETLAND BUFFER IMPACT TEMPORARY	0 S.F.				

NOTES:

1. A: WETLANDS SHOWN IN THE SOUTHEAST CORNER OF THIS PARCEL HEREON ARE TAKEN FROM WATSON BROOK COMPILATION MAP OF TAX MAP 47, LOTS 8 & 9, TAX MAP 48, LOT 3 & TAX MAP 55, LOT 68' ROUTE 27 (EPPING ROAD), INDUSTRIAL DR. & COMMERCE WAY EXETER, NEW HAMPSHIRE' PROVIDED BY DOUCET SURVEY, INC. B: WETLAND DELINEATION WAS COMPLETED BY GOVE ENVIRONMENTAL SERVICES (G.E.S.) IN FEBRUARY 13, 2023, IN ACCORDANCE WITH THE 1987 ARMY CORP OF ENGINEERS WETLAND MANUAL AND THE 2012 REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION. FIELD LOCATED BY TFMORAN, INC.





7, 2023 - 12:32pm

NOTES

1. SEE NOTES ON SHEET C-01.

- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATIONS, SIZE, AND ELEVATIONS OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS PRIOR TO THE START OF ANY DEMOLITION. THE LOCATIONS SHOWN ON THESE PLANS ARE NOT GUARANTEED BY THE OWNER OR THE ENGINEER. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED DEMOLITION TO DETERMINE APPROPRIATE ACTION TO BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ANTICIPATE CONFLICTS AND REPAIR EXISTING UTILITIES AS NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- 3. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY WORK AT ALL TIMES.
- 4. THE CONTRACTOR SHALL VERIFY ALL SURVEY INFORMATION IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- 5. EXISTING UTILITY SERVICES TO BE DISCONTINUED ARE TO BE CAPPED AS REQUIRED BY THE RESPECTIVE UTILITY COMPANIES.
- CONSTRUCTION DEBRIS AND INVASIVE SPECIES SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
 PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PLACE ORANGE CONSTRUCTION FENCING
- AROUND EACH TREE TO BE RETAINED THROUGHOUT CONSTRUCTION. NO STOCKPILES OF MATERIAL ARE PERMITTED WITHIN THE DRIP LINE OF THE TREES TO BE SAVED.
- 8. CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY IF ANY TREES ARE DAMAGED DURING CONSTRUCTION.

CONSTRUCTION SEQUENCE NOTES

TO MINIMIZE EROSION AND SEDIMENTATION DUE TO CONSTRUCTION, CONSTRUCTION SHALL FOLLOW THIS GENERAL CONSTRUCTION SEQUENCE.

MODIFICATIONS TO THE SEQUENCE NECESSARY DUE TO THE CONTRACTOR'S SCHEDULE SHALL INCLUDE APPROPRIATE TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES.

THE CONTRACTOR SHALL SCHEDULE WORK SUCH THAT ANY CONSTRUCTION AREA IS STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE EXCEPT AS NOTED BELOW. NO MORE THAN 5 ACRES OF DISTURBED LAND SHALL BE UNSTABILIZED AT ANY ONE TIME.

THE PROJECT SHALL BE MANAGED SO THAT IT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ARG 3800 RELATIVE TO INVASIVE SPECIES.

DO NOT TRAFFIC EXPOSED SOIL SURFACE OF INFILTRATION SYSTEMS WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.

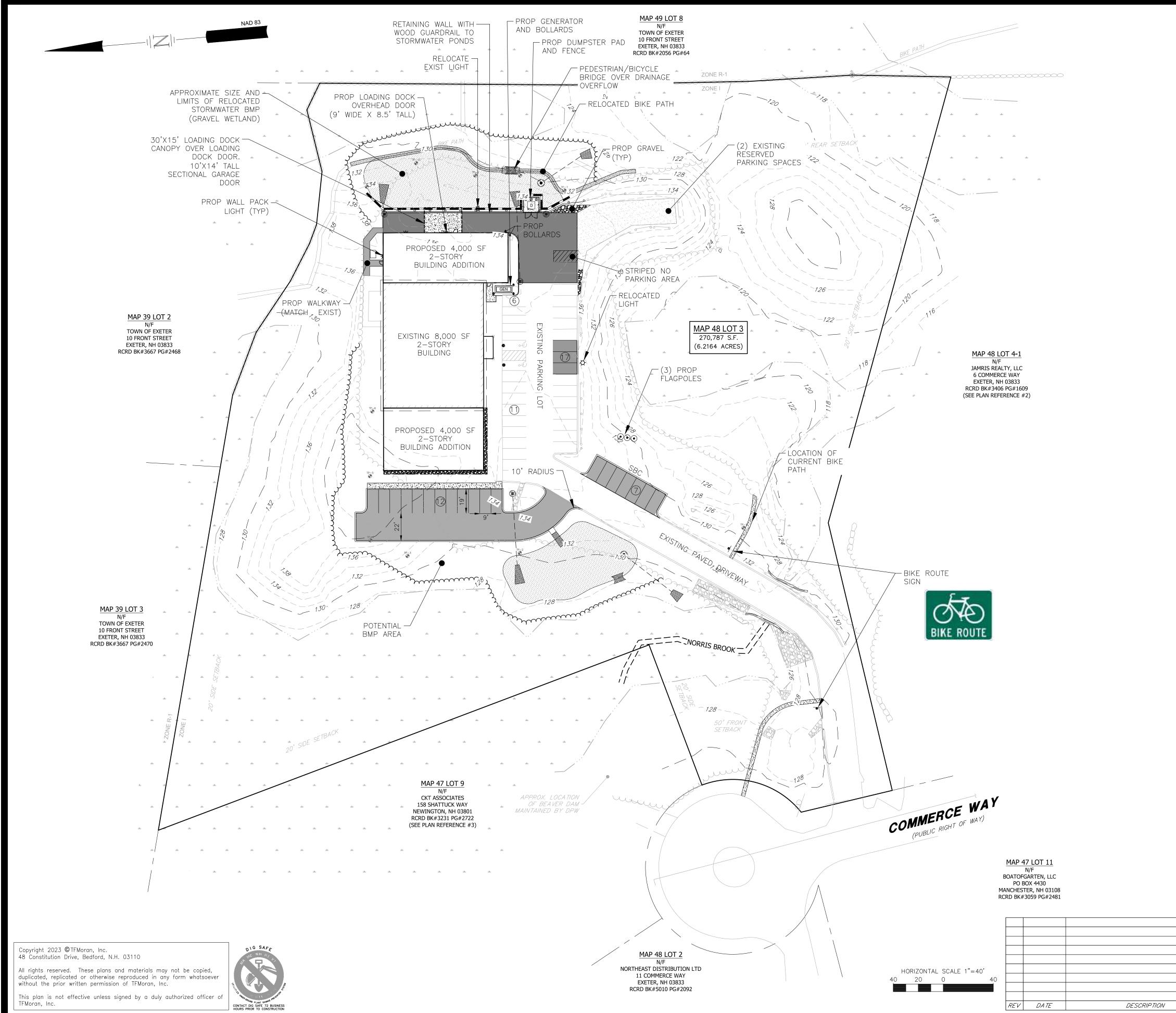
DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO STORMWATER BMP'S. STORMWATER RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMP'S ARE STABILIZED.

DO NOT PLACE STORMWATER BMP'S INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

AFTER THE INFILTRATION SYSTEM IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE THE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.

- NOTIFY EASEMENT OWNERS PRIOR TO COMMENCEMENT OF WORK.
 INSTALL ALL PERIMETER EROSION PROTECTION MEASURES AS INDICATED ON THE PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- STORMWATER TREATMENT PONDS AND SWALES SHALL BE INSTALLED BEFORE ROUGH GRADING THE SITE.
 DURING CONSTRUCTION EVERY EFFORT SHALL BE MADE TO MANAGE SURFACE RUNOFF QUALITY.
 DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT BARRIERS, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED. (TEMPORARY SEED MIXTURE OF WINTER RYE APPLIED AT A RATE OF 2.5 LBS/1000 SF SHALL BE USED).
- CONDUCT MAJOR EARTHWORK, INCLUDING CLEARING AND GRUBBING, WITHIN THE LIMITS OF WORK. ALL CUT AND FILL SLOPES SHALL BE SEEDED WITHIN 72 HOURS AFTER GRADING.
 ALL STRIPPED TOPSOIL AND OTHER EARTH MATERIALS SHALL BE STOCKPILED OUTSIDE THE IMMEDIATE WORK AND WETLAND AREAS. A SILT BARRIER SHALL BE CONSTRUCTED AROUND THESE PILES IN A
- MANNER TO PROVIDE ACCESS AND AVOID SEDIMENT OUTSIDE OF THE WORK AREA. 8. CONSTRUCT BUILDING PAD AND COMMENCE NEW BUILDING CONSTRUCTION. 9. CONSTRUCT TEMPORARY CULVERTS AND DIVERSIONS AS REQUIRED.
- BEGIN PERMANENT AND TEMPORARY INSTALLATION OF SEED AND MULCH.
 PERFORM EARTHWORK NECESSARY TO ESTABLISH ROUGH GRADING AROUND PARKING FIELDS AND ACCESS DRIVES. MANAGE EXPOSED SOIL SURFACES TO AVOID TRANSPORTING SEDIMENTS INTO WETLANDS. PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- INSTALL SUBSURFACE UTILITIES (WATER, SEWER, GAS, ELECTRIC, COMMUNICATIONS, DRAINAGE, DRAINAGE FACILITIES, ETC.).
 CONSTRUCT PROPOSED ROADWAY, RAIN GARDENS, GRAVEL WETLANDS AND DRAINAGE SWALES. ALL
- 13. CONSTRUCT PROPOSED ROADWAY, RAIN GARDENS, GRAVEL WEILANDS AND DRAINAGE SWALES. ALL DITCHES, SWALES, AND GRAVEL WETLANDS SHALL BE FULLY STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
 14. COMPLETE BUILDING, AND ALL, OFE-SITE IMPROVEMENTS.
- 14. COMPLETE BUILDING AND ALL OFF-SITE IMPROVEMENTS. 15. COMPLETE SEEDING AND MULCHING. SEED TO BE APPLIED WITH BROADCAST SPREADER OR BY
- HYDRO-SEEDING, THEN ROLLED, RAKED, OR DRAGGED TO ASSURE SEED/SOIL CONTACT. 16. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDED AREAS HAVE BECOME FIRMLY ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE.
- 17. DURING THE COURSE OF THE WORK AND UPON COMPLETION, THE CONTRACTOR SHALL REMOVE ALL SEDIMENT DEPOSITS, EITHER ON OR OFF SITE, INCLUDING CATCH BASINS, AND SUMPS, DRAIN PIPES AND DITCHES, CURB LINES, ALONG SILT BARRIERS, ETC. RESULTING FROM SOIL AND/OR CONSTRUCTION OPERATIONS.
- 18. SEE WINTER CONSTRUCTION SEQUENCE FOR WORK CONDUCTED AFTER OCTOBER 15TH.

	SIT	E DE	/ELOPME		PLANS
		<u>SITE</u> 8	X MAP 48 L PREPARATIO C3I, INC. COMMERCE EXETER, NI ITY OF ROCK OWNED BY	ON P WAY H (ING)	LAN Y
	C SCALE:	-MARINE	E DYNAMICS F		TY, LLC APRIL 14, 2023
		FN	Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	Bedi Pho Fax	Constitution Drive ford, NH 03110 ne (603) 472–4488 (603) 472–9747 .tfmoran.com
? <i>СК</i>	F 47201.03	DR FB CK CADFIL	E 47201–03 SITE PR	EP	C-3



SITE DATA

OWNER OF RECORD OF MAP 48 LOT 3: C-MARINE DYNAMICS REALTY, LLC. AREA OF PARCEL = $270,787\pm$ SF OR $6.22\pm$ ACRES

ZONED:

INDUSTRIAL (I) ZONE EXISTING USE: LIGHT INDUSTRIAL/PROFESSIONAL OFFICE PROPOSED USE: LIGHT INDUSTRIAL/PROFESSIONAL OFFICE

THE PURPOSE OF THIS PLAN IS TO CONSTRUCT TWO, 2-STORY, 4,000 SQUARE FOOT FOOTPRINT BUILDING ADDITIONS. ASSOCIATED IMPROVEMENTS INCLUDE AND ARE NOT LIMITED TO PARKING, GRADING, STORMWATER MANAGEMENT SYSTEMS, LIGHTING, AND LANDSCAPING.

DIMENSIONAL REQUIREMENTS (CURRENT ZONING)

MINIMUM LOT DIME		REQUIRED:	PROVIDED:
LOT AREA LOT FRONTAG MIN LOT DEP	E	40,000' 150' 200'	270,787 SF 162' 450'
MINIMUM YARD DIM FRONT SIDE REAR	IENSIONS:	50' 20' 50'	>50' >20' >50'
MAXIMUM STRUCTU STRUCTURE F MAXIMUM LOT		50 FT 40%	<50 FT 3%
MINIMUM OPEN SP	ACE	25%	>80%
PARKING CALCULATIONS			
TOTAL REQUIRED:	PROFESSIONAL OFFI	ICE – 1 SPACE PER 300 SF	
	LIGHT INDUSTRIAL -	- 1 SPACE FOR EACH EMPLOY	EE ON MAX. SHIFT
	PROFESSIONAL OFFI	ICE: 13,650 SF X 1/300	= 46 SPACES
	LIGHT INDUSTRIAL:	9 MANUFACTURING EMPLOYEES	S = 9 SPACES
		TOTAL REQUIRED	= 55 SPACES

TOTAL PROVIDED: 55 SPACES

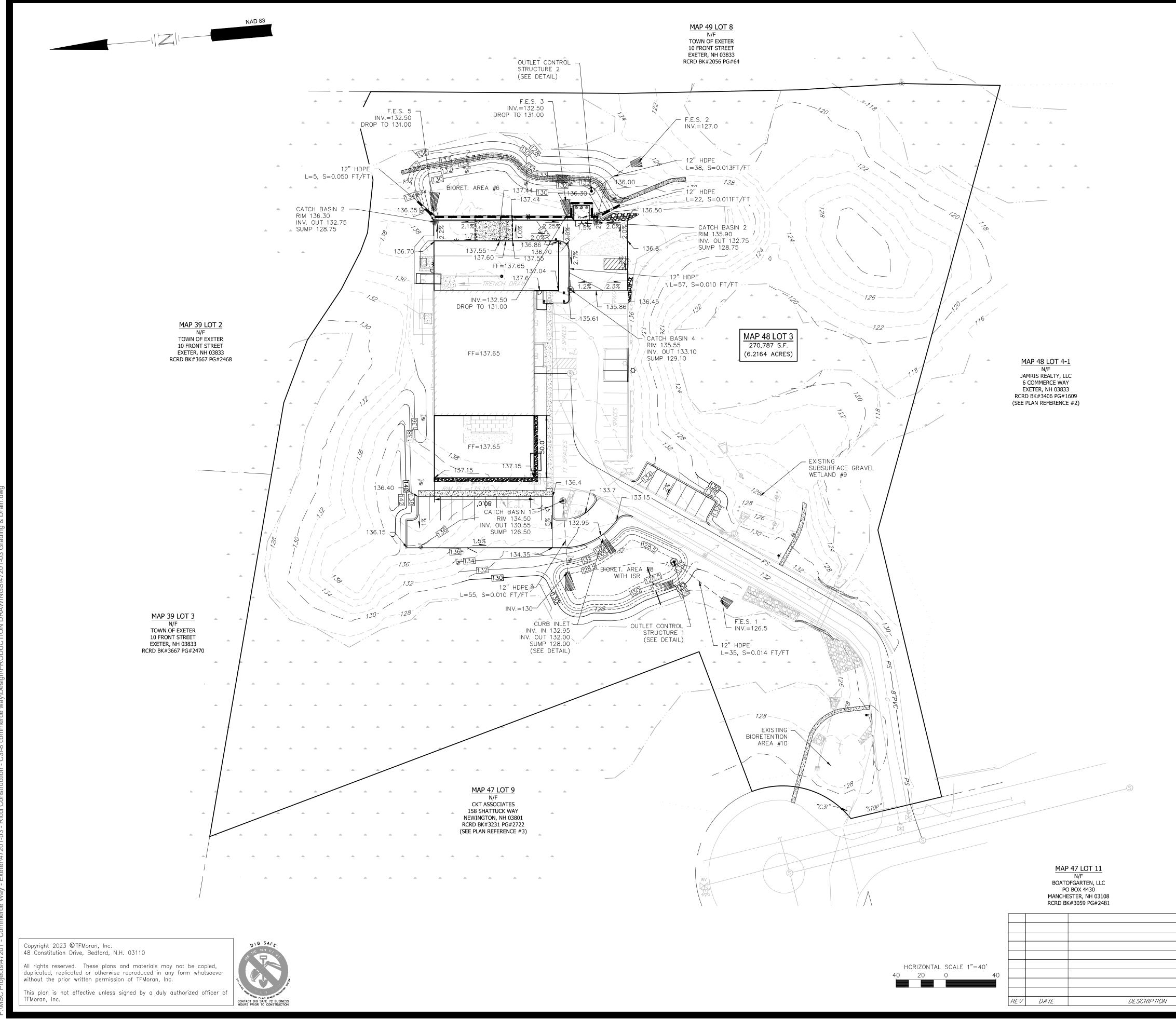
NOTES

1. SEE NOTES ON SHEET C-01.

2. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE.

- 3. LIGHTING, SIGNAGE, LANDSCAPING, AND SCREENING SHALL MEET THE REQUIREMENTS OF THE CITY/TOWN ZONING ORDINANCE AND SITE PLAN REGULATIONS.
- 4. SNOW SHALL NOT BE STOCKPILED IN STORMWATER BMP'S, WETLAND BUFFERS, OR WETLANDS. SEE SNOW STORAGE LOCATIONS. IN THE EVENT THAT THE SNOW STORAGE AREAS PROVIDED ON THE SITE ARE COMPLETELY UTILIZED, EXCESS SNOW SHALL BE TRANSPORTED OFF SITE FOR DISPOSAL IN ACCORDANCE WITH NHDES REGULATION. IF SNOW IS STORED WITHIN PARKING AREA, KEEP CATCH BASINS CLEAR.





NOTES

- 1. SEE NOTES ON SHEET C-01.
- 2. ALL DOORS AND GARAGE ENTRANCES SHALL BE AT FINISHED FLOOR ELEVATION UNLESS OTHERWISE NOTED.
- 3. PROPOSED SPOT GRADES ON PAVEMENT ARE PROVIDED TO THE NEAREST 0.05. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE FINISHED GRADES MEET ADA STANDARDS FOR WHEEL CHAIR RAMPS, HANDICAP SPACES AND ACCESS AISLES, CROSSWALKS, SIDEWALKS, ETC.
- 4. ALL ELEVATIONS SHOWN AT CURB ARE TO THE BOTTOM OF CURB UNLESS OTHERWISE NOTED. CURBS HAVE A 6" REVEAL UNLESS OTHERWISE NOTED.
- 5. LENGTH OF PIPE IS FOR CONVENIENCE ONLY. ACTUAL PIPE LENGTH SHALL BE DETERMINED IN THE FIELD.
- 7. ALL PROPOSED DRAINAGE PIPES SHALL BE 12" AND HDPE, UNLESS OTHERWISE NOTED ON THE PLAN.
- 8. DRAINAGE PIPES WITH LESS THAN 3' COVER SHALL BE INSULATED (SEE UTILITY TRENCH DETAIL) AND DRAINAGE CATCH BASINS WITH LESS THAN 3.5' OF COVER OVER INVERTS SHALL USE SLAB TOP CATCH BASIN (SEE DETAILS).
- 9. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND ARCHITECTURAL PLANS FOR SUBDRAINAGE SYSTEMS FOR THE BUILDING FOUNDATION. SUBDRAINAGE MUST DAYLIGHT OR TIE INTO THE STORMWATER MANAGEMENT SYSTEM. COORDINATE SUBDRAINAGE SYSMTEM DESIGN WITH THE ENGINEER OF RECORD.

NOTE

SCALE:

DR CK

- 1. ALL TEST PITS ARE TO BE TESTED FOR INFILTRATION RATES AT THE GIVEN INFILTRATION
- ELEVATIONS. 2. TEST PITS ARE TO BE EXCAVATED UNTIL SEASONAL HIGH WATER TABLE OR THE LOCATION OF LEDGE IS ENCOUNTERED. TEST PIT DEPTHS LISTED ARE MINIMUM DEPTHS. IF SEASONAL HIGH WATER OR LEDGE ARE ENCOUNTERED, THE TEST PIT CAN BE STOPPED.
- 3. INFILTRATION TESTS ARE FOR INFILTRATION ONLY. THEY CAN BE DISCONTINUED IF SEASONAL HIGH WATER OR LEDGE IS ENCOUNTERED WITHIN THE TESTING RANGE FOR THE INFILTRATION.
- 4. INFILTRATION TESTS SHALL BE PERFORMED ACCORDING TO ENV-WQ 1504.14 (e) [AoT STANDARDS].

SOIL LEGEND (PER SITE SPECIFIC SOIL SURVEY)					
SYMBOL	DESCRIPTION	HYDROLOGIC SOIL GROUP			
313	DEERFIELD	В			
546/P	WALPPOLE POORLY DRAINED	С			

546/P	WALPPOLE POORLY DRAINED	C	
S	ITE DEVELOI	PMENT PLAN	S

ТАХ	MAP	48	LOT 3	

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Traffic Engineers

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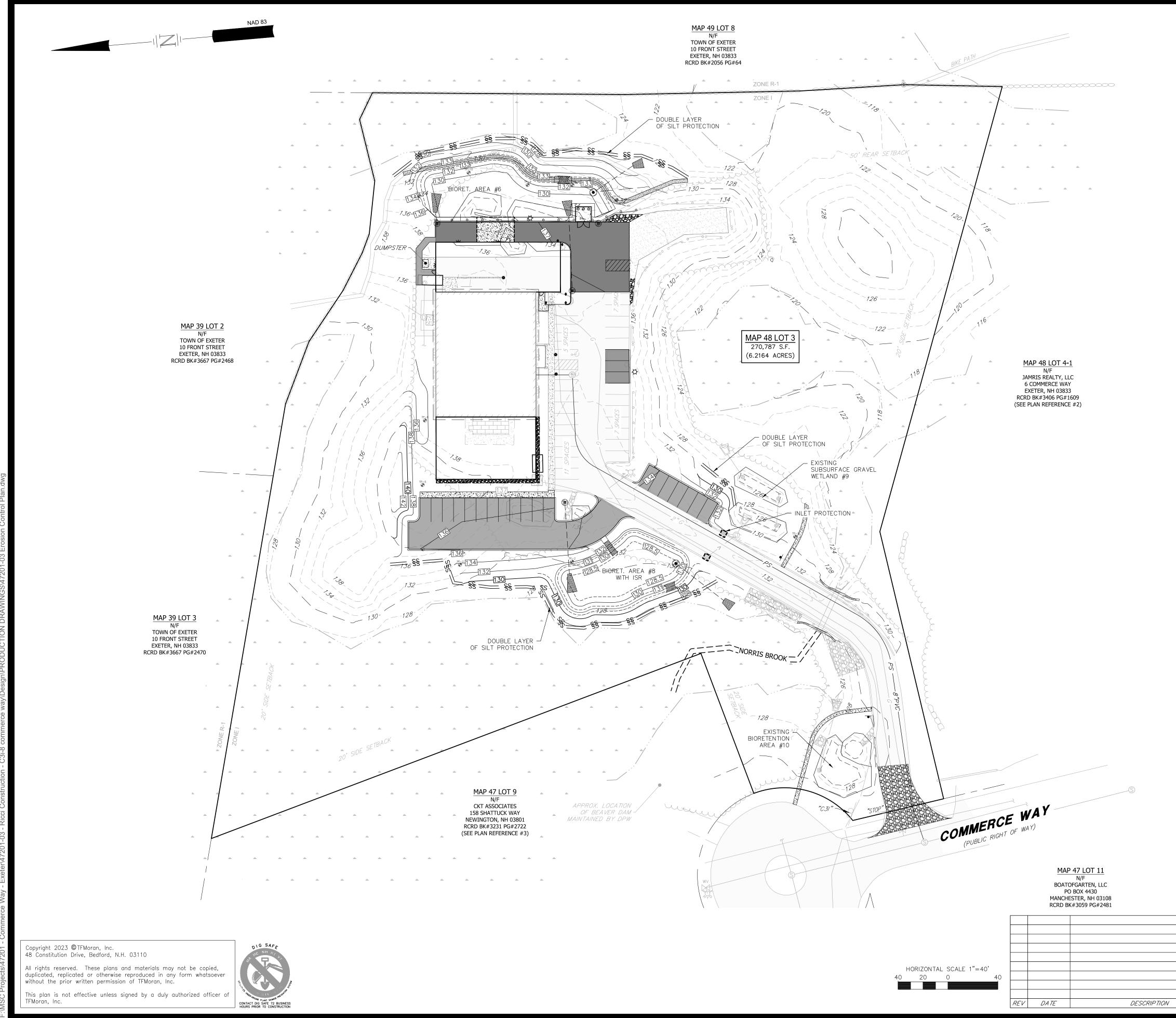
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C-MARINE DYNAMICS REALTY, LLC

APRIL 14, 2023

C-5



NOTES

- 1. SEE NOTES ON SHEET C-01, EROSION CONTROL NOTES AND DETAILS ON SHEET C-08, AND THE APPROVED SWPPP, AS APPLICABLE.
- 2. INSTALL SILT BARRIER ALONG THE PERIMETER OF THE AREA TO BE DISTURBED AS FIRST ORDER OF WORK.
- 3. PROVIDE INLET PROTECTION BARRIERS AROUND ALL EXISTING AND PROPOSED STORM DRAINAGE INLETS WITHIN THE WORK LIMITS AND MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED. INLET PROTECTION BARRIERS SHALL BE IN PLACE AT ALL CATCH BASINS PRIOR TO THE DISTURBANCE OF SOIL.
- 4. DUST CONTROL SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. IT SHALL BE ACCOMPLISHED BY THE UNIFORM APPLICATION OF CALCIUM CHLORIDE AT THE RATE OF 1-1/2 POUNDS PER SQUARE YARD BY MEANS OF A LIME SPREADER OR OTHER APPROVED METHOD. WATER MAY ALSO BE USED FOR DUST CONTROL, AND APPLIED BY SPRINKLING WITH WATER TRUCK DISTRIBUTORS, AS REQUIRED.
- 5. THE SITE WILL REQUIRE A USEPA NPDES PERMIT FOR STORMWATER DISCHARGE FOR THE SITE CONSTRUCTION IF THE DISTURBANCE EXCEEDS ONE ACRE. THE CONSTRUCTION SITE OPERATOR SHALL DEVELOP AND IMPLEMENT A CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH EPA REGULATIONS AND THE CONSTRUCTION GENERAL PERMIT WHICH SHALL REMAIN ON SITE AND MADE ACCESSIBLE TO THE PUBLIC. THE SITE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO SUBMIT AN ENOI AT LEAST 14 DAYS IN ADVANCE OF ANY EARTHWORK ACTIVITIES AT THE SITE. A COMPLETED NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO NPDES PERMITTING AUTHORITY WITHIN 30 DAYS AFTER EITHER OF THE FOLLOWING CONDITIONS HAVE BEEN MET: FINAL STABILIZATION HAS BEEN ACHIEVED ON ALL PORTIONS OF THE SITE FOR WHICH THE PERMITTEE IS RESPONSIBLE FOR, OR ANOTHER OPERATOR/PERMITTEE HAS ASSUMED CONTROL OVER ALL AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- 6. SILT PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS CONTAINED IN THIS PLAN SET.
- 7. CONSTRUCT JUTE MATTING ON ALL SLOPES STEEPER THAN 3:1, DISTURBED AREAS SLOPING TOWARDS WETLANDS AND ALL LOCATIONS SHOWN ON PLAN.
- 8. INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAIN STORM OF 0.10" OR GREATER. REPAIR/MODIFY SILT BARRIER AS NECESSARY TO MAXIMIZE FILTER EFFICIENCY. REMOVE SEDIMENT WHEN SEDIMENT IS 1/3 THE STRUCTURE HEIGHT.
- 9. PROVIDE SILT BARRIERS AT THE BASE OF CUT AND FILL SLOPES UNTIL COMPLETION OF THE PROJECT OR UNTIL VEGETATION BECOMES ESTABLISHED ON SLOPES. EROSION PROTECTION BELOW FILL SLOPES SHALL BE PLACED IMMEDIATELY AFTER CLEARING, PRIOR TO EMBANKMENT CONSTRUCTION.
- 10. ALL DISTURBED AREAS SHALL BE REVEGETATED AS QUICKLY AS POSSIBLE. ALL CUT AND FILL SLOPES SHALL BE SEEDED WITHIN 72 HOURS AFTER GRADING.
- 11. ALL WORK AREAS TO BE STABILIZED AT THE END OF EACH WORK DAY AND PRIOR TO ANY PREDICTED SIGNIFICANT RAIN EVENT.
- 12. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: A. BASE COURSE GRAVELS, WHICH MEET THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM 304.2, ARE INSTALLED IN AREAS TO BE PAVED
 - B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN
 - INSTALLED D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED
- 13. ALL CATCH BASINS, MANHOLES, AND DRAIN LINES SHALL BE THOROUGHLY CLEANED OF ALL SEDIMENT AND DEBRIS AFTER ALL AREAS HAVE BEEN STABILIZED.
- 14. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SLOPE STABILITY DURING CONSTRUCTION.
- 15. THE EROSION CONTROL PRACTICES SHOWN ON THESE PLANS ARE ILLUSTRATIVE ONLY AND SHALL BE SUPPLEMENTED BY THE SITE CONTRACTOR AS NEEDED.



<u>SOIL</u> C	HARACTERISTICS		
	IN THE VICINITY OF THE SITE Y OF THE SOIL IS HSG TYPE B		SIST OF URBAN LAND AND UDORTHANTS, LOAMY SOIL, THE
<u>DISTUR</u>	BED AREA		
	AL AREA TO BE DISTURBED IS TO LIMIT DISTURBED AREAS TO		454 SQUARE FEET (0.790 ACRES). CONSTRUCTION SHALL BE ES.
CRITICAL EXECUTEI REQUIREN	D IN ACCORDANCE WITH APPLI	VIDED FOR GENERAL CABLE CURRENT STA	GUIDANCE. ALL SPECIAL EROSION CONTROL MEASURES MUST BE TE AND LOCAL REGULATIONS, APPROVED SWPPP, AND PERMIT
<u>SEQUEI</u>	NCE OF MAJOR ACTIVITI	IES	
1.			TRUCTION ENTRANCE, AND TEMPORARY EROSION CONTROL _ANS, PERMITS, OR SWPPP IF REQUIRED, PRIOR TO EARTH
2.	MOVING OPERATIONS. DEMOLISH EXISTING SITE WOR		
3. 4.	INSTALL STORMWATER TREAT COMPLETE MAJOR GRADING (MENT PONDS AND S' DF SITE.	WALES BEFORE ROUGH GRADING THE SITE.
6.	CONSTRUCT BUILDING PAD, S CONSTRUCT PARKING AREAS.		, AND SITE UTILITIES. AND SITE IS STABILIZED, REMOVE ALL INLET PROTECTION, SILT
	BARRIERS, AND SEDIMENT TH	IAT HAS BEEN TRAPI ATIONS, PERMITS, CO	
<u>EROSIC</u>	N AND SEDIMENT CONT	ROLS AND STAE	BILIZATION PRACTICES
			CKPILES AND DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY
CON BE	STRUCTION ACTIVITY HAS PER	MANENTLY OR TEMP	CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER DRARILY CEASED IN THAT AREA. ALL DISTURBED AREAS SHALL CE. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE
1.	BASE COURSE GRAVELS, WHI	CH MEET THE REQUI	REMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE ISTALLED IN AREAS TO BE PAVED;
	A MINIMUM OF 85% VEGETAT	ED GROWTH HAS BEE	EN ESTABLISHED; JCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR
	EROSION CONTROL BLANKETS		
CHA DRA	ANNELS WHERE POSSIBLE. SHEE AIN INLETS SHALL BE PROVIDED	ET RUNOFF FROM TH D WITH BARRIER FILT	COUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED E SITE WILL BE FILTERED THROUGH SILT BARRIERS. ALL STORM ERS. STONE RIPRAP SHALL BE PROVIDED AT THE OUTLETS OF
DRA	AINAGE PIPES WHERE EROSIVE	VELOCITIES ARE ENO	SUONTERED.
<u>OFF SI</u>	TE VEHICLE TRACKING		
STA	BILIZED CONSTRUCTION ENTRA	NCES SHALL BE INST	FALLED.
INSTALI	LATION, MAINTENANCE, A	ND INSPECTION	OF EROSION AND SEDIMENT CONTROLS
A. GEI	NERAL		
THE	SE ARE THE GENERAL INSPEC	TION AND MAINTENAN	NCE PRACTICES THAT WILL BE USED TO IMPLEMENT THE PLAN.
1.	STABILIZATION OF ALL SWALE	ES, DITCHES, AND PO	ONDS IS REQUIRED PRIOR TO DIRECTING FLOW TO THEM.
2.	THE SMALLEST PRACTICAL P	ORTION OF THE SITE	WILL BE DENUDED AT ONE TIME. (5 AC MAX)
3.	FOR PROJECTS REQUIRING A WATERBODY, AT LEAST EVER	NHDES AOT PERMIT	ACCORDANCE WITH APPLICABLE REGULATIONS, PERMITS, AND AND NHPDES EPA GCP, DISCHARGING TO A SENSITIVE R A 0.25 INCH RAIN EVENT OR GREATER, AND INSPECTIONS MONITOR IF ONE IS REQUIRED, PURSUANT TO ENV-WQ
4.	ALL MEASURES WILL BE MAIN WITHIN 24 HOURS OF REPOR		RKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATE
5.	BUILT UP SEDIMENT WILL BE THE BARRIER.	REMOVED FROM SILT	BARRIER WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF
6.	ALL DIVERSION DIKES WILL B	E INSPECTED AND A	NY BREACHES PROMPTLY REPAIRED.
7.	TEMPORARY SEEDING AND PL GROWTH.	_ANTING WILL BE INS	PECTED FOR BARE SPOTS, WASHOUTS, AND UNHEALTHY
8.	A MAINTENANCE INSPECTION	REPORT WILL BE MA	DE AFTER EACH INSPECTION.
9.	THE CONTRACTOR WILL BE R PURSUANT TO ENV-WQ 1505		SURING AN ENVIRONMENTAL MONITOR, IF ONE IS REQUIRED, IED.
B. <u>FIL</u>	<u>ters / barriers</u>		
1.	SILT SOCKS		
			DELIVERED TO SITE IN A 5 MIL CONTINUOUS, TUBULAR, HDPE ORMING TO THE FOLLOWING REQUIREMENTS:
	<u>PHYSICAL PROPERTY</u> PH	<u>TEST</u> TMECC 04.11-A	REQUIREMENTS 5.0 TO 8.0
	PARTICLE SIZE	TMECC 02.02-B	2" SIEVE AND MIN. 60% GREATER THAN THE 🖁 SIEVE
	MOISTURE CONTENT		STND TESTING < 60%

MATERIAL SHALL BE RELATIVELY FREE OF INERT OR FOREIGN MAN-MADE MATERIALS

MATERIAL SHALL BE WEED FREE AND DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, FREE FROM ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH.

B. SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK SHALL BE REMOVED ONCE IT HAS REACHED 1/3 OF THE EXPOSED HEIGHT OF THE SILT SOCK.

C. SILT BARRIER SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAS BEEN PERMANENTLY STABILIZED. 2. SEQUENCE OF INSTALLATION

SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.

3. MAINTENANCE

- A. SILT BARRIERS SHALL BE INSPECTED WEEKLY AND IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. THEY SHALL BE REPAIRED IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.
- B. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- CONTROL MEASURES MUST BE C. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN PROVED SWPPP, AND PERMIT

C. <u>MULCHING</u>

1. TIMING

TWO (2) TYPES OF STANDARDS WHICH SHALL BE USED TO ASSURE THIS: A. APPLY MULCH PRIOR TO ANY STORM EVENT.

WARNING OF SIGNIFICANT STORMS.

B. REQUIRED MULCHING WITHIN A SPECIFIED TIME PERIOD. TIME RESTRICTION.

- 2. GUIDELINES FOR WINTER MULCH APPLICATION. WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON) IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER MAY BE ADDED TO THE MULCH.
- 3. MAINTENANCE ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE IMMEDIATELY APPLIED.
- D. VEGETATIVE PRACTICE
 - 1. AFTER ROUGH GRADING OF THE SUBGRADE HAS BEEN COMPLETED AND APPROVED, THE SUB GRADE SURFACE SHALL BE SCARIFIED TO A DEPTH OF 4". THEN, FURNISH AND INSTALL A LAYER OF LOAM PROVIDING A ROLLED THICKNESS AS SPECIFIED IN THESE PLANS. ANY DEPRESSIONS WHICH MAY OCCUR DURING ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM, REGRADED AND REROLLED UNTIL THE SURFACE IS TRUE TO THE FINISHED LINES AND GRADES. ALL LOAM NECESSARY TO COMPLETE THE WORK UNDER THIS SECTION SHALL BE SUPPLIED BY THE SITE SUBCONTRACTOR.
 - 2. ALL LARGE STIFF CLODS, LUMPS, BRUSH, ROOTS, DEBRIS, GLASS, STUMPS, LITTER, AND OTHER FOREIGN MATERIAL, AS WELL AS STONES OVER 1" IN DIAMETER, SHALL BE REMOVED FROM THE LOAM AND DISPOSED OF OFF SITE. THE LOAM SHALL BE RAKED SMOOTH AND EVEN.
 - 3. THE LOAM SHALL BE PREPARED TO RECEIVE SEED BY REMOVING STONES, FOREIGN OBJECTS AND GRADING TO ELIMINATE WATER POCKETS AND IRREGULARITIES PRIOR TO PLACING SEED. FINISH GRADING SHALL RESULT IN STRAIGHT UNIFORM GRADES AND SMOOTH, EVEN SURFACES WITHOUT IRREGULARITIES TO LOW POINTS.
- 3. SANITARY WASTE 4. SHAPE THE AREAS TO THE LINES AND GRADES REQUIRED. THE SITE SUBCONTRACTOR'S ATTENTION IS DIRECTED ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A TO THE SCHEDULING OF LOAMING AND SEEDING OF GRADED AREAS TO PERMIT SUFFICIENT TIME FOR THE LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. STABILIZATION OF THESE AREAS. IT SHALL BE THE SITE SUBCONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE AREAS DURING THE CONSTRUCTION PERIOD AND REGRADE, LOAM AND RESEED ANY DAMAGED AREAS.
- 5. ALL AREAS DISTURBED BY CONSTRUCTION WITHIN THE PROPERTY LINES AND NOT COVERED BY STRUCTURES, PAVEMENT, OR MULCH SHALL BE LOAMED AND SEEDED.
- MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF 6. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE IN SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5. STORMWATER RUNOFF
- 7. FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.
- 8. SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN. AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4 1/2 POUNDS AND 5 1/2 POUNDS PER INCH OF WIDTH.
- 9. SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE SEEDING THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER C. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. HALE AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4" AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF D. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
- 10. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE. MULCH THAT BLOWS OR WASHES AWAY SHALL BE REPLACED IMMEDIATELY AND ANCHORED USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.
- 11. THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED. WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.
- 12. THE SITE SUBCONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED, INCLUDING CUTTING, AS SPECIFIED HEREIN AFTER UNDER MAINTENANCE AND PROTECTION.
- INFORMATION. 13. UNLESS OTHERWISE APPROVED, SEEDING SHALL BE DONE DURING THE APPROXIMATE PERIODS OF EARLY SPRING TO SEPTEMBER 30, WHEN SOIL CONDITIONS AND WEATHER ARE SUITABLE FOR SUCH WORK. IN NO CASE SHALL C. SURPLUS PRODUCT THAT MUST BE DISPOSED OF WILL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL. THE WEED CONTENT EXCEED 1 PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. FOR TEMPORARY PLANTINGS AFTER SEPTEMBER 30, TO EARLY SPRING AND FOR TEMPORARY PROTECTION OF DISTURBED AREAS: 2. PRODUCT SPECIFICATION PRACTICES
- A. FOLLOW ABOVE SLOPE, LOAM DEPTH AND GRADING REQUIREMENTS. B. FERTILIZER SHALL BE SPREAD AND WORKED INTO THE SURFACE AT A RATE OF 500 POUNDS PER ACRE.

MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES: WINTER RYE (FALL SEEDING) OATS (SPRING SEEDING) MULCH

- CATCH BASIN INLET PROTECTION 1. INLET BASKET STRUCTURE
 - A. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY PRIOR TO DISTURBING PAVEMENT AND SHALL REMAIN

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CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

- DEPOSITS REACH APPROXIMATELY ONE THIRD (1/3) THE HEIGHT OF THE BARRIER.
- D. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFIRM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
- IN ORDER FOR MULCH TO BE EFFECTIVE, IT MUST BE IN PLACE PRIOR TO MAJOR STORM EVENTS. THERE ARE
- THIS IS APPLICABLE WHEN WORKING WITHIN 100' OF WETLANDS. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER PREDICTIONS, USUALLY BY CONTACTING THE NATIONAL WEATHER SERVICE, TO HAVE ADEQUATE
- THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY ON AN AREA, WHERE THE LENGTH OF TIME VARIES WITH SITE CONDITIONS. PROFESSIONAL JUDGMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS (SOIL ERODIBILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE

- 2.5 LBS/1,000 SF
- 2.0 LBS/1.000 SF
- 1.5 TONS/ACRE

- IN PLACE AND MAINTAINED UNTIL PAVEMENT BINDER COURSE IS COMPLETE.
- B. MOLD 6X6, 42 LB. WIRE SUPPORT AROUND INLET FRAME AND GRATE AND EXTEND 6" BEYOND SIDES. SECURE FILTER FABRIC TO WIRE SUPPORT.
- C. THE FILTER FABRIC SHALL BE A GEOTEXTILE FABRIC; POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE OR POLYVINYLIDENE CHLORIDE MEETING THE FOLLOWING SPECIFICATIONS: GRAB STRENGTH: 45 LB. MINIMUM IN ANY PRINCIPAL DIRECTION (ASTM D1682)
- MULLEN BURST STRENGTH: MIN. 60PSI (ASTM D774) D. THE FABRIC SHALL HAVE AN OPENING NO GREATER THAN A NUMBER 20 U.S. STANDARD SIEVE AND A MINIMUM PERMEABILITY OF 120 GPM.
- E. THE INLET PROTECTION SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OR DAILY DURING EXTENDED PERIODS OF PRECIPITATION. REPAIRS SHALL BE MADE IMMEDIATELY, AS NECESSARY, TO PREVENT PARTICLES FROM REACHING THE DRAINAGE SYSTEM AND/OR CAUSING SURFACE FLOODING.
- F. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT, OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED.
- WINTER CONSTRUCTION SEQUENCE
- 1. ALL PROPOSED POST-DEVELOPMENT LANDSCAPED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1 AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENT.
- 2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- 3. AFTER OCTOBER 15TH, INCOMPLETE PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STOPPED FOR THE WINTER ALL TRAVEL SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOWFALL AFTER EACH STORM EVENT.
- TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, SILT BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCING ANY CLEARING OR GRADING OF THE SITE. STRUCTURAL CONTROLS SHALL BE INSTALLED CONCURRENTLY WITH THE APPLICABLE ACTIVITY. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN TWENTY ONE (21) DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN FOURTEEN (14) DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, SILT BARRIERS AND ANY EARTH/DIKES WILL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.

FOR SINGLE/DUPLEX FAMILY SUBDIVISIONS, WHEN LOT DEVELOPMENT IS NOT PART OF THE PERMIT, THEN LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

<u>WASTE DISPOSAL</u>

- WASTE MATERIALS ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ON SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
- HAZARDOUS WASTE ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
- SPILL PREVENTION

GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:

- A. AN EFFORT WILL BE MADE TO STORE ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB.
- B. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER
- E. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- F. WHENEVER POSSIBLE ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. HAZARDOUS PRODUCTS

THE FOLLOWING PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS: A. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.

B. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED FOR IMPORTANT PRODUCT

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:

ALL ON SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

<u>FERTILIZERS</u> FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

REV	DA TE	DESCRIP TION

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS WILL DISCHARGE AND WASH OUT SURPLUS CONCRETE OR DRUM WASH WATER IN A CONTAINED AREA DESIGNATED ON SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE, EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- C. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- D. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- E. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- F. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RECURRING AND HOW TO CLEANUP THE SPILL IF IT RECURS. A DESCRIPTION OF THE SPILL, ITS CAUSE, AND THE CLEANUP MEASURES WILL BE INCLUDED.
- G. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.

DUST CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL METHODS SHALL INCLUDE, BUT NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ABUTTING AREAS.



C3I, INC. **8 COMMERCE WAY** EXETER, NH

COUNTY OF ROCKINGHAM OWNED BY

C-MARINE DYNAMICS REALTY, LLC

SCALE: NTS

47201.03

DR CK

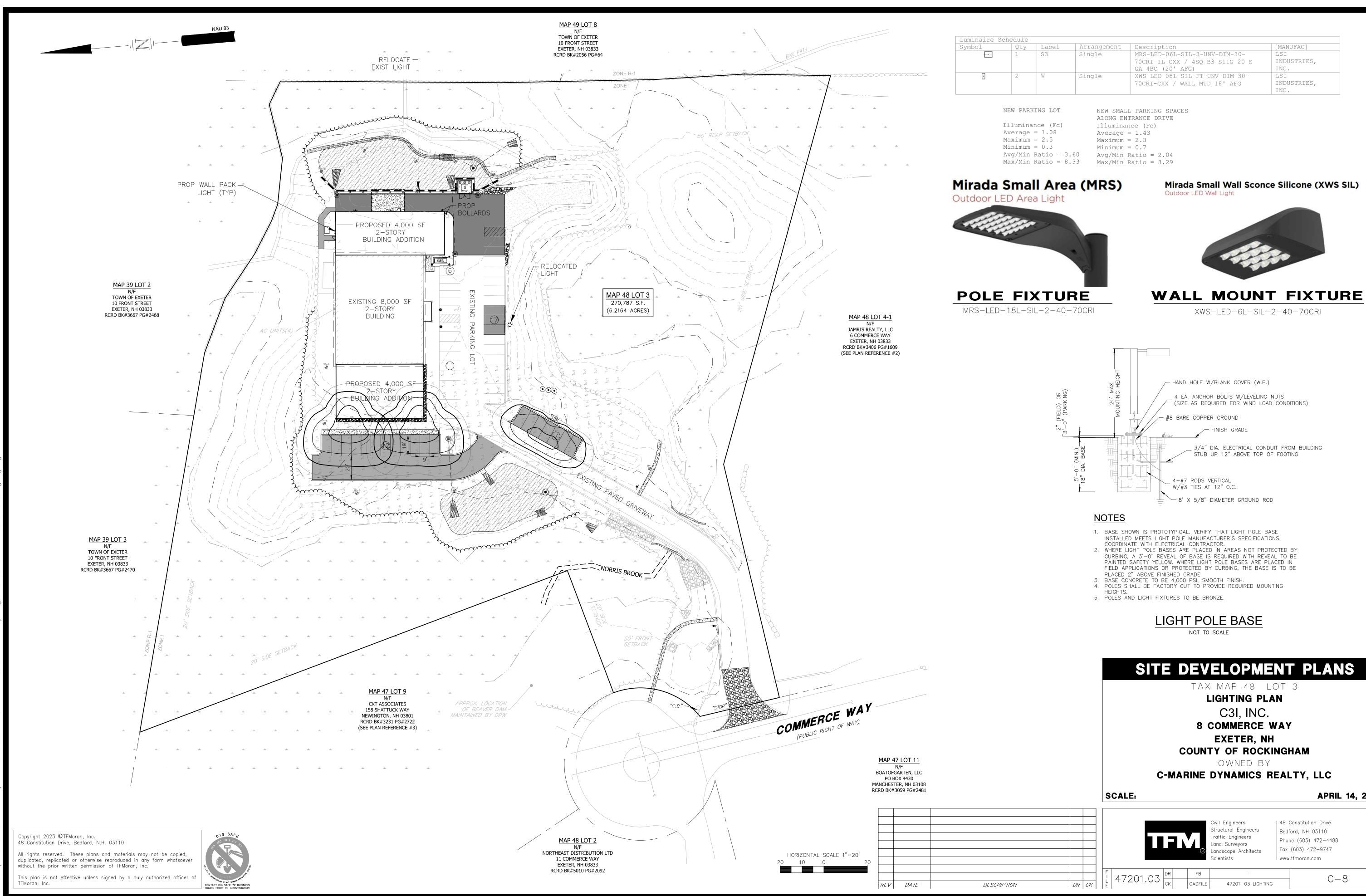
APRIL 14, 2023

ivil Engineers 48 Constitution Drive structural Engineers Bedford, NH 03110 raffic Engineers Phone (603) 472-4488 and Survevors Fax (603) 472-9747 _andscape Architects cientists www.tfmoran.com

CADFILE 47201-03 EROSION CTRL NOTES

FB

C— /



Label	Arrangement	Description	[MANUFAC]
S3	Single	MRS-LED-06L-SIL-3-UNV-DIM-30-	LSI
		70CRI-IL-CXX / 4SQ B3 S11G 20 S	INDUSTRIES,
		GA 4BC (20' AFG)	INC.
W	Single	XWS-LED-08L-SIL-FT-UNV-DIM-30-	LSI
		70CRI-CXX / WALL MTD 18' AFG	INDUSTRIES,
			INC.

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(SIZE AS REQUIRED FOR WIND LOAD CONDITIONS) 3/4" DIA. ELECTRICAL CONDUIT FROM BUILDING

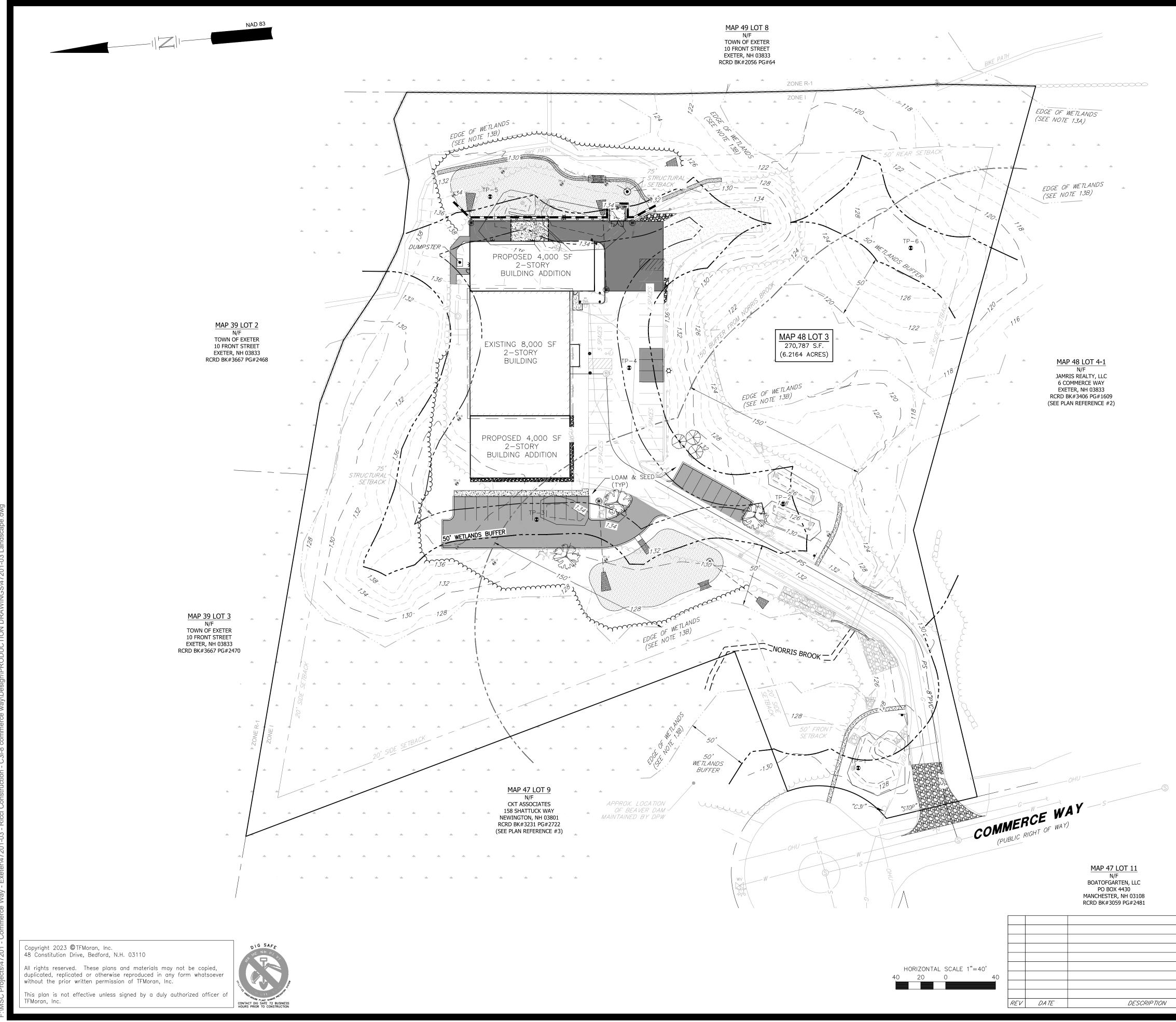


SITE DEVELOPMENT PLANS

C-MARINE DYNAMICS REALTY, LLC

APRIL 14, 2023

C-8



LANDSCAPE LEGEND

SYMBOL	QTY	BOTANICAL NAME COMMON NAME	SIZE	REMARKS
	3	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2 1/2" TO 3" CAL.	B&B
	3	MALUS APPLE – TO BE SELECTED BY CLIENT	7 GAL.	B&B

LANDSCAPE NOTES

(SEE DETAILS FOR ADDITIONAL NOTES)

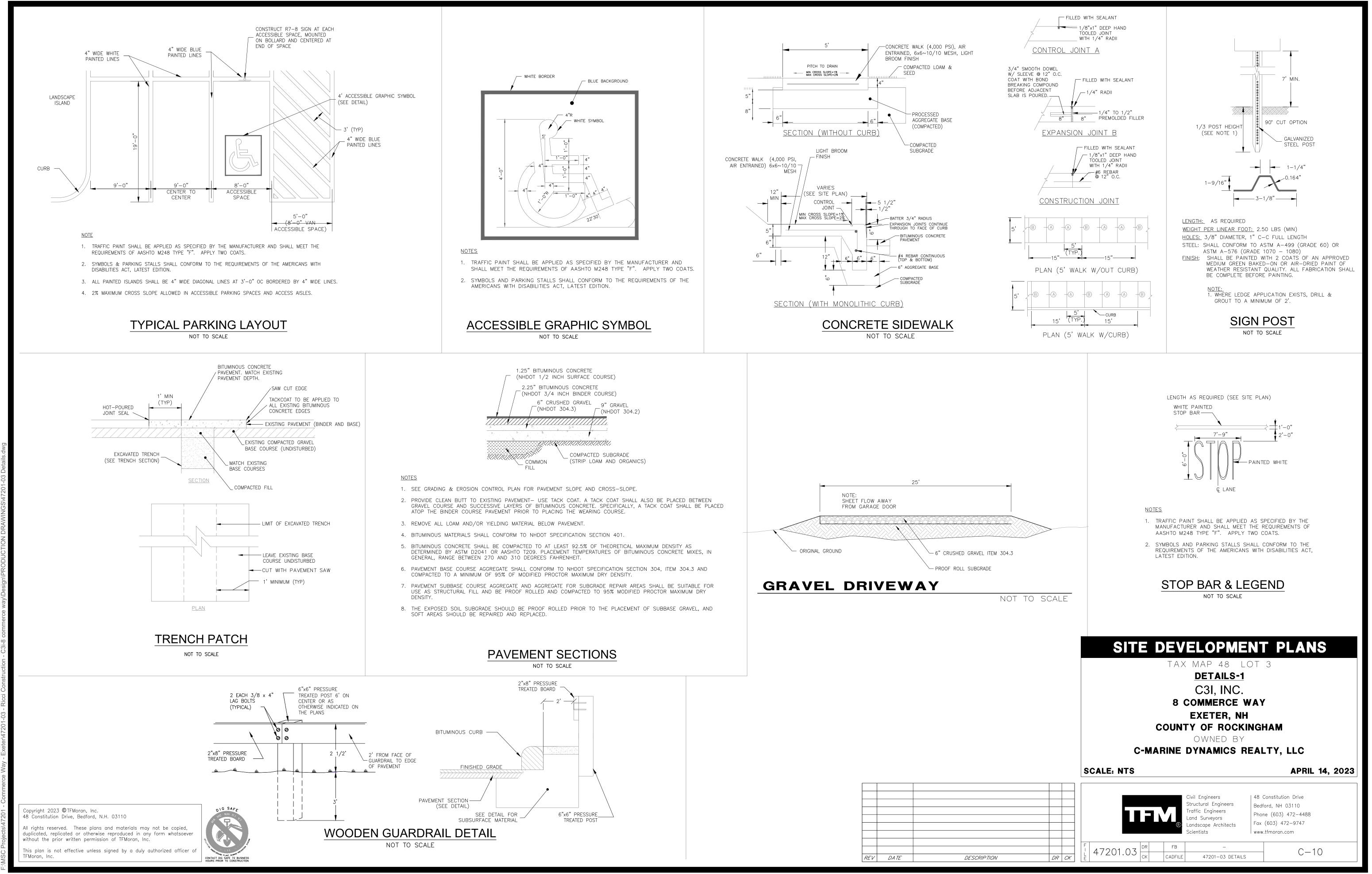
<u>GENERAL</u>

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES, REGULATIONS, LAWS, AND ORDINANCES HAVING JURISDICTION OVER THIS PROJECT SITE.
- 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND NOTIFY OWNER'S REPRESENTATIVE OF CONFLICTS.
- 3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON PLANS BEFORE PRICING THE WORK. ANY DIFFERENCE IN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. LANDSCAPE QUANTITIES SHOWN ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED IN LANDSCAPE LEGEND.
- 4. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK AND VERIFY THAT THE PLANS IN THE CONTRACTOR'S POSSESSION ARE THE MOST CURRENT PLANS AVAILABLE AND ARE THE APPROVED PLAN SET FOR USE IN CONSTRUCTION.
- 5. ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) [FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN] IN THE AMERICAN STANDARD FOR NURSERY STOCK (AS AMENDED) [ANSI Z60.1-1996],
- 6. ALL PLANTS SHALL BE FIRST CLASS AND SHALL BE REPRESENTATIVE OF THEIR NORMAL SPECIES AND/OR VARIETIES. ALL PLANTS MUST HAVE GOOD, HEALTHY, WELL-FORMED UPPER GROWTH AND A LARGE, FIBEROUS, COMPACT ROOT SYSTEM.
- 7. ALL PLANTS SHALL BE FREE FROM DISEASE AND INSECT PESTS AND SHALL COMPLY WITH ALL APPLICABLE STATE AND FEDERAL LAWS PERTAINING TO PLANT DISEASES AND INFESTATIONS.
- 8. ALL TREES SHALL BE BALLED AND BURLAPPED (B & B) UNLESS OTHERWISE NOTED OR APPROVED BY LANDSCAPE ARCHITECT.
- 9. IF APPLICABLE, THE CONTRACTOR SHALL HAVE ALL FALL TRANSPLANTING HAZARD PLANTS DUG IN THE SPRING AND STORED FOR FALL PLANTING.
- 10. ALL INVASIVE PLANT SPECIES FROM THE "NEW HAMPSHIRE PROHIBITED INVASIVE PLANT SPECIES LIST", TO BE REMOVED SHALL BE DONE SO IN ACCORDANCE WITH THE "INVASIVE SPECIES ACT, HB 1258-FN."

<u>GUARANTEE</u>

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE WORK FOR A PERIOD OF ONE YEAR, BEGINNING AT THE START OF THE MAINTENANCE PERIOD.





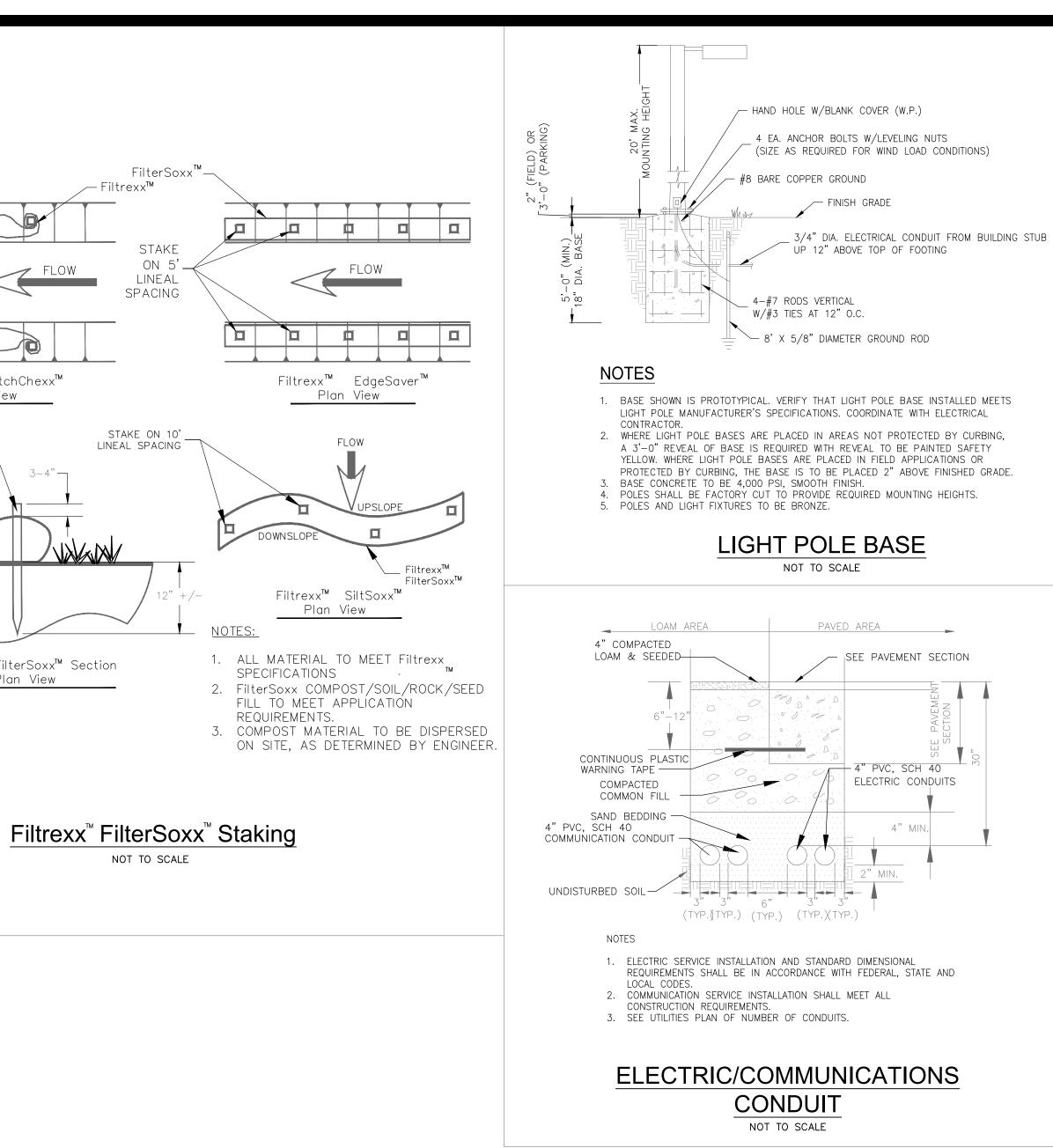
SITE AND SOIL PREPARATION	
1. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR LEDGE, NOTIFY LANDSCAPE ARCHITECT/ENGINEER BEFORE PLANTING.	
2. ALL DISTURBED AREAS & PLANTING AREAS, INCLUDING AREAS TO BE SODDED, SHALL RECEIVE THE FOLLOWING SOIL PREPARATION PRIOR TO PLANTING: A MINIMUM OF 6 INCHES OF LIGHTLY COMPACTED TOPSOIL SHALL BE INSTALLED OVER THE SUBSOIL IF TOPSOIL HAS BEEN REMOVED OR IS NOT PRESENT.	
3. LOAM SHALL CONSIST OF LOOSE FRIABLE TOPSOIL WITH NO ADMIXTURE OF REFUSE OR MATERIAL TOXIC TO PLANT GROWTH. LOAM SHALL BE FREE FROM STONES, LUMPS, STUMPS, OR SIMILAR OBJECTS LARGER THAN TWO INCHES (2") IN GREATEST DIAMETER, SUBSOIL, ROOTS, AND WEEDS. THE MINIMUM AND MAXIMUM PH VALUE SHALL BE FROM 5.5 TO 7.0. LOAM SHALL CONTAIN A MINIMUM OF TWO PERCENT (2%) AND A MAXIMUM OF FIVE PERCENT (5%) ORGANIC MATTER AS DETERMINED BY LOSS BY IGNITION. SOIL TEXTURE SHALL BE SANDY CLAY LOAM OR SANDY LOAM WITH CLAY CONTENT BETWEEN 15 AND 25%, AND A COMBINED CLAY/SILT CONTENT OF NO MORE THAN 55%. NOT MORE THAN SIXTY-FIVE PERCENT (65%) SHALL PASS A NO. 200 SIEVE AS DETERMINED BY THE WASH TEST IN ACCORDANCE WITH ASTM D1140. IN NO INSTANCE SHALL MORE THAN 20% OF THAT MATERIAL PASSING THE #4 SIEVE CONSIST OF CLAY SIZE PARTICLES.	
4. NATURAL TOPSOIL NOT CONFORMING TO THE PARAGRAPH ABOVE OR CONTAINING EXCESSIVE AMOUNTS OF CLAY OR SAND SHALL BE TREATED BY THE CONTRACTOR TO MEET THOSE REQUIREMENTS.	STAKE
5. SUBMIT TEST RESULTS OBTAINED FROM SOURCE TO ENGINEER/LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL, PRIOR TO SPREADING OPERATIONS.	ON 5'
6. APPROVAL BY THE ENGINEER/LANDSCAPE ARCHITECT TO USE THE TOPSOIL WILL DEPEND UPON THE RESULTS OF THE SOIL TESTS.	SPACING
7. THE BURDEN OF PROOF OF SOIL AMENDMENT INSTALLATION RESTS WITH THE CONTRACTOR. SOIL TESTS MAY BE REQUIRED AT THE CONTRACTOR'S EXPENSE IN ORDER TO CONFIRM AMENDMENT INSTALLATION.	
SEEDING	Filtrexx™ Ditc
1. ROUGH GRADING SHALL BE COMPLETED PRIOR TO THE START OF PLANTING IN ANY GIVEN AREA OF THE PROJECT SITE.	Plan Vie
2. SEEDING SHALL BE DONE BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 15, EXCEPT FOR RESEEDING OF BARE SPOTS AND MAINTENANCE. ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PAVING OR AREAS THAT HAVE NOT BEEN OTHERWISE DEVELOPED SHALL BE SEEDED OR SODDED. SLOPES GREATER THAN 3:1 SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET. AFTER OCTOBER 15 DISTURBED SOILS SHALL BE PROTECTED IN ACCORDANCE WITH THE WINTER CONSTRUCTION NOTES. ACCEPTABLE SEED MIXES ARE AS FOLLOWS:	2"×2" WOODEN STAKE
PARK SEED MIX (NHDOT TYPE 44) MIN. 135 LBS/ACRE:	Filtrexx™ FilterSoxx™
33% CREEPING RED FESCUE(MIN. 45 LBS/ACRE)42% PERENNIAL RYEGRASS(MIN. 55 LBS/ACRE)21% KENTUCKY BLUEGRASS(MIN. 30 LBS/ACRE)	
4% REDTOP (MIN. 5 LBS/ACRE)	
TEMPORARY LAWN MIX: (MIN. 47 LBS/ACRE) 100% ANNUAL RYE	
<u>SLOPE SEED (WF) (NHDOT TYPE 45) MIX 3:1 OR GREATER SLOPES (MIN. 105 LBS/ACRE):</u> 38% CREEPING RED FESCUE (MIN. 40 LBS/ACRE)	
32% PERENNIAL RYEGRASS (MIN. 35 LBS/ACRE) 5% REDTOP (MIN. 5 LBS/ACRE) 5% ALSIKE CLOVER (MIN. 5 LBS/ACRE)	Filtrexx™ Fil
5% BIRDSFOOT TREFOIL(MIN. 5 LBS/ACRE)3% LANCE-LEAF COREOPSIS(MIN. 3 LBS/ACRE)	PI
3%OXEYE DAISY(MIN. 3 LBS/ACRE)3%BUTTERFLY WEED(MIN. 3 LBS/ACRE)3%BLACKEYED SUSAN(MIN. 3 LBS/ACRE)3%WILD LUPINE(MIN. 3 LBS/ACRE)	
SLOPE SEED (NHDOT TYPE 44) MIX 3:1 OR GREATER SLOPES (MIN. 90 LBS/ACRE): 44% CREEPING RED FESCUE (MIN. 40 LBS/ACRE) 38% PERENNIAL RYEGRASS (MIN. 35 LBS/ACRE) 6% REDTOP (MIN. 5 LBS/ACRE) 6% ALSIKE CLOVER (MIN. 5 LBS/ACRE)	
6% BIRDSFOOT TREFOIL (MIN. 5 LBS/ACRE)	
PLANTING 1. EXCAVATE PITS, PLANTERS, BEDS AND TRENCHES WITH VERTICAL SIDES AND WITH BOTTOM OF EXCAVATION SLIGHTLY RAISED AT CENTER TO	
PROVIDE PROPER DRAINAGE. LOOSEN HARD SUBSOIL IN BOTTOM OF EXCAVATION. 2. ANY LEDGE OR RUBBLE MATERIAL SHALL BE FRACTURED TO A DEPTH OF 3 FEET AND EXCAVATED TO A DEPTH OF 30 INCHES FOR TREE POCKETS	
AND 18 INCHES FOR SHRUB BEDS. THIS PROCEDURE SHALL BE HANDLED BY THE SITE CONTRACTOR. SITE TOPSOIL SHALL BE DEPOSITED IN ALL EXCAVATED POCKETS.	
 DISPOSE OF SUBSOIL REMOVED FROM PLANTING EXCAVATIONS. DO NOT MIX WITH PLANTING SOIL OR USE AS BACKFILL. FILL EXCAVATIONS FOR TREES AND SHRUBS WITH WATER AND ALLOW TO PERCOLATE OUT BEFORE PLANTING. 	
5. DISH TOP OF BACKFILL TO ALLOW FOR MULCH – PLANT SAUCERS SHALL BE AS SHOWN ON DETAIL SHEETS; 6' DIAMETER FOR ALL DECIDUOUS TREES, AND FOR EVERGREEN TREES A RADIUS 2' BEYOND THE OUTER MOST BRANCHES.	
6. MULCH TREES, SHRUBS, PLANTERS AND BEDS. PROVIDE NOT LESS THAN 3" THICKNESS OF BARK MULCH, 3/8"-2" OF WIDTH, AND WORK INTO	
TOP OF BACKFILL. FINISH LEVEL WITH ADJACENT FINISH GRADES AS DIRECTED IN THE FIELD. 7. STAKE AND GUY TREES IMMEDIATELY AFTER PLANTING (TREE SUPPORT STAKES SHALL BE 2" X 3" X 8', WOOD STAKES. GUYING WIRE SHALL BE NO. 12 GAUGE GALVANIZED SOFT STEEL WIRE. HOSE FOR COVERING WIRE SHALL BE NEW OR USED TWO PLY RUBBER HOSE NOT LESS THAN 1/2 INCH INSIDE DIAMETER. (PLASTIC "CINCH-TIES" OR EQUIVALENT FASTENING DEVICE MAY BE AN ACCEPTABLE GUY WIRE AND HOSE PROTECTOR SUBSTITUTE.)	
8. TREEGATOR WATERING SYSTEM OR APPROVED EQUAL SHALL BE INSTALLED FOR ALL DECIDUOUS TREES AT TIME OF PLANTING AND REMOVED	
BEFORE FROST. WATERING RATE TO BE APPLIED PER MANUFACTURER'S SPECIFICATIONS.9. ALL PLANT MATERIALS SHALL HAVE DEAD OR DAMAGED BRANCHES REMOVED AT TIME OF PLANTING. ALL TAGS AND RIBBONS SHALL BE REMOVED	
AT THIS TIME. 10. TREES TO REMAIN STAKED FOR 1 FULL GROWING SEASON.	
11. THE CONTRACTOR SHALL REQUEST A FINAL OBSERVATION BY THE OWNER'S REPRESENTATIVE UPON COMPLETION OF INSTALLATION.	

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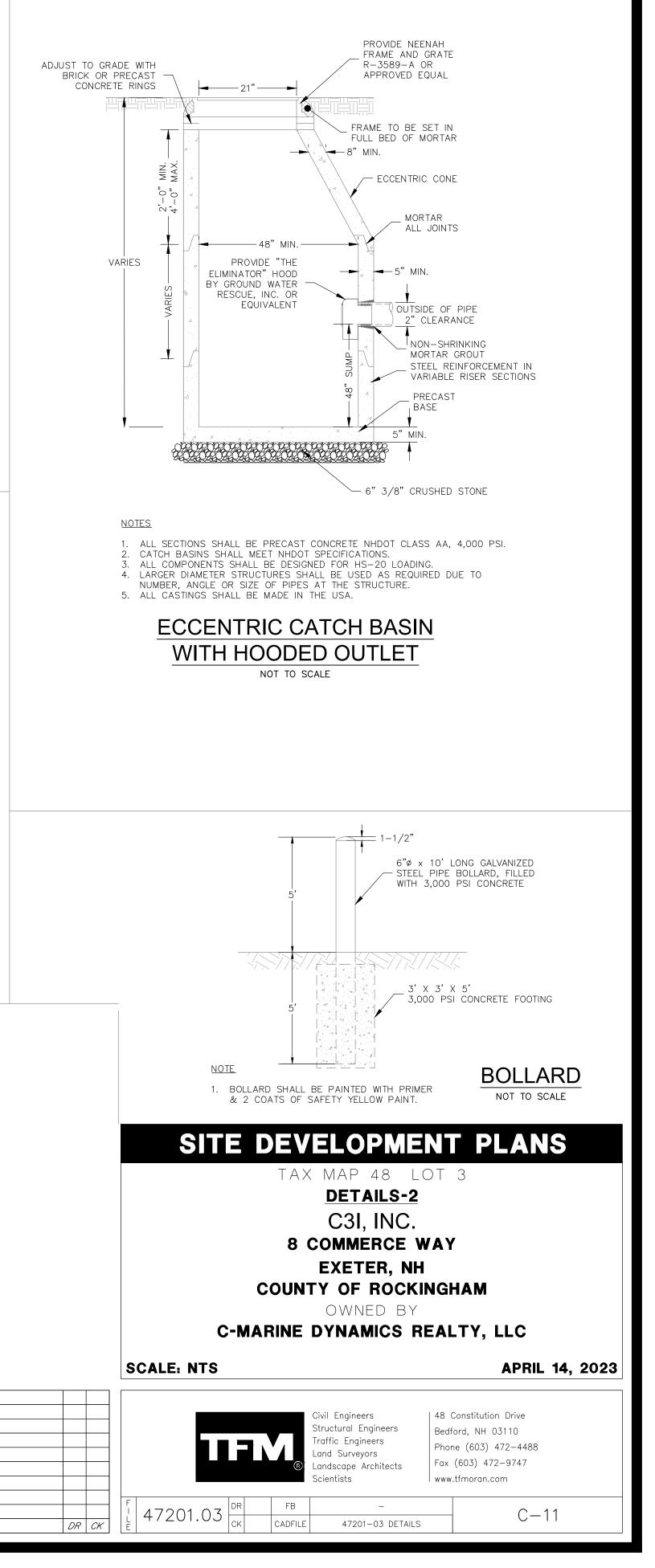
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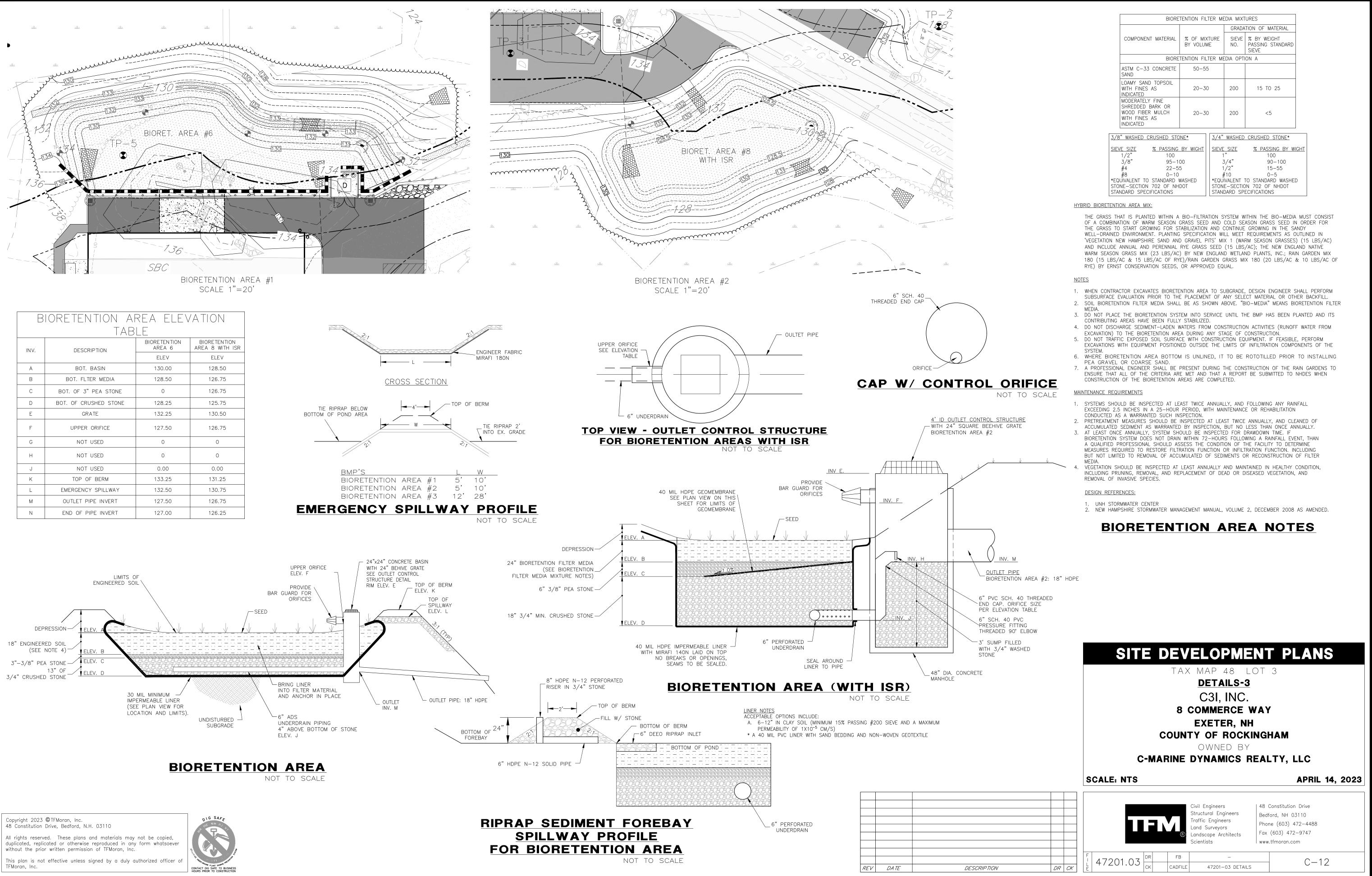
This plan is not effective unless signed by a duly authorized officer of TFMoran, Inc.





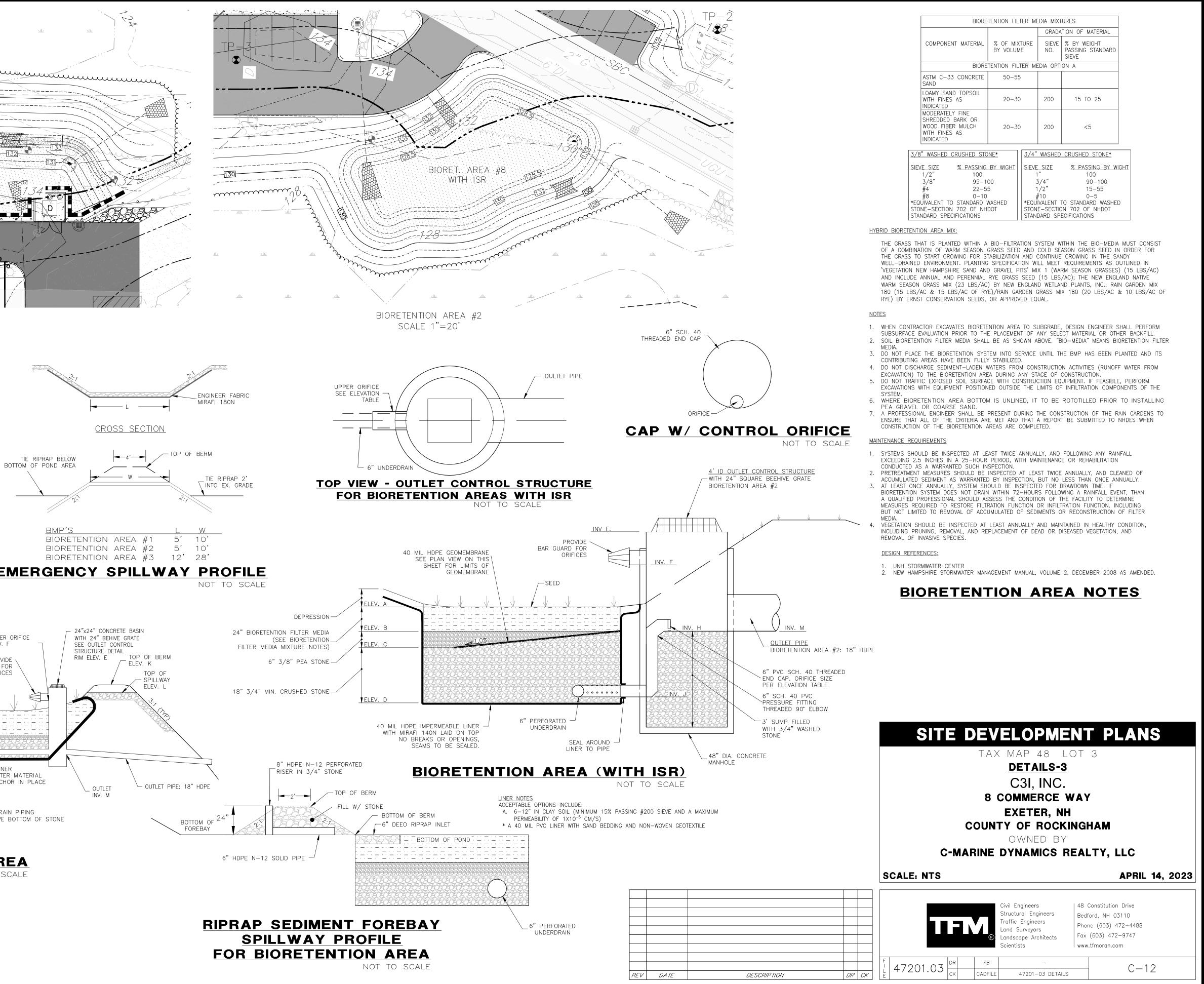
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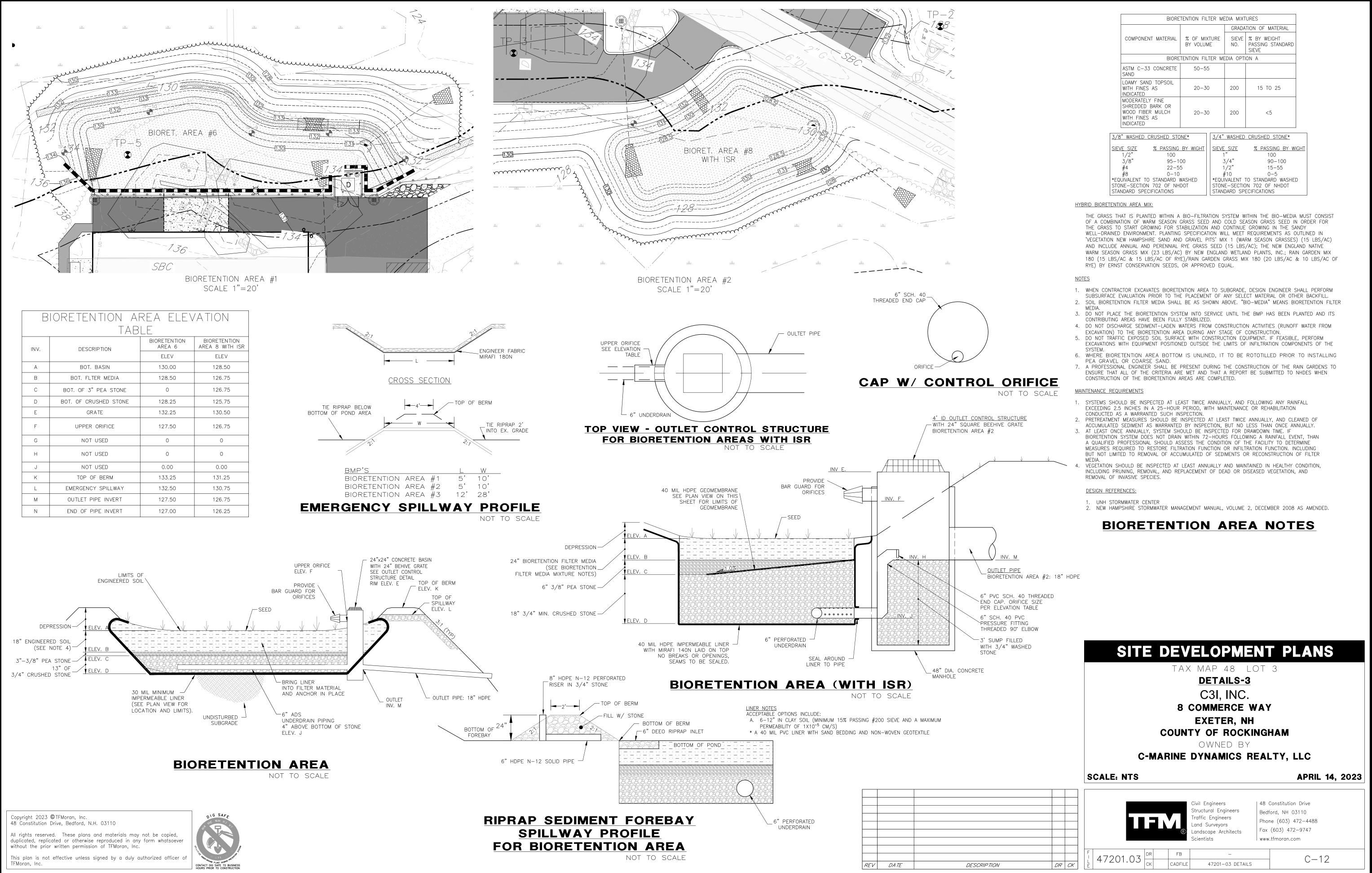




B	IORETENTION AF	REA ELEV	'ATION
	TAB	LE	
INV.	DESCRIPTION	BIORETENTION AREA 6	BIORETENTION AREA 8 WITH ISR
		ELEV	ELEV
А	BOT. BASIN	130.00	128.50
В	BOT. FLTER MEDIA	128.50	126.75
С	BOT. OF 3" PEA STONE	0	126.75
D	BOT. OF CRUSHED STONE	128.25	125.75
E	GRATE	132.25	130.50
F	UPPER ORIFICE	127.50	126.75
G	NOT USED	0	0
Н	NOT USED	0	0
J	NOT USED	0.00	0.00
К	TOP OF BERM	133.25	131.25
L	EMERGENCY SPILLWAY	132.50	130.75
М	OUTLET PIPE INVERT	127.50	126.75
Ν	END OF PIPE INVERT	127.00	126.25







	BIORE	TENTION FIL	.TER ME	EDIA MIXT	URES	
-					TION OF MATERIAL	
COMPONENT MAT	COMPONENT MATERIAL %			SIEVE NO.	% BY WEIGHT PASSING STANDARD SIEVE	
	BIORE	TENTION FIL	.TER ME	EDIA OPTI	ON A	1
ASTM C-33 CONC SAND	RETE	50-5	5			
LOAMY SAND TOPS WITH FINES AS INDICATED				200	15 TO 25	
SHREDDED BARK				200	<5	
3/8" WASHED CRUSHE	ED STO	NE*	<u>3/4"</u>	WASHED	CRUSHED STONE*	
<i>#</i> 4	<u>SSING</u> 100 95–1 22–5	00	1	" 3/4" /2"	<u>% PASSING BY W</u> 100 90-100 15-55	<u>/IG</u>
#8 0-10 CQUIVALENT TO STANDARD WASHED TONE-SECTION 702 OF NHDOT			*EQU		0–5 TO STANDARD WASHE NN 702 OF NHDOT	ED







WINTER HOLBEN architecture + design

1	Exeter Conservation Commission
2	July 11, 2023
3	Nowak 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 Andrew Koff, Vice-Chair Trevor Mattera, Connor
13	Madison, Alternate Valorie Fanger and Alternate Keith Whitehouse
14	
15	Staff Present: Kristen Murphy, Conservation and Sustainability Planner
16	
17	Mr. Koff called the meeting to order at 7:00 PM and activated Alternates Fanger and Whitehouse. He
18	introduced the members and noted that there were two open positions.
19	
20	2. Public Comment
21	
22 23	Mr. Koff asked if there was any public comment unrelated to agenda items and there was none.
23	
24	Action Items
25	
26	1. Drinking Water Trust Fund Grant Application for Conservation Land (Southeast Land Trust/Trust for
27	Public Lands)
28	
29	Lynnette Batt project manager, representing the non-profit Trust for Public Land appeared with Duane
30 31	Hyde of Southeast Land Trust to present the proposal to acquire 148 acres from the Rugg family, of which 46 acres are located in Exeter and the remaining acreage in Newfields for a community forest.
31 32	She is asking the Conservation Commission for a letter of support addressed to the State which she can
32 33	add to the grant application.
34	
35	Ms. Batt presented proposals for pre-applications for grants for Newfields and Exeter, with a \$500,000
36	Drinking Water and Groundwater Trust Fund grant to assist with the purchase cost for the Town of
37	Exeter as the parcel in Exeter is in the public water supply protection area. She is recommending the
38	balance of \$1,141,500 be funded through a Town bond. Fundraising and private donations will go
39	towards the associated costs of the purchase. She will get feedback from the Select Board and Fort
40	Rock Riders for what she hopes will become a community forest with 12-13 miles of trails.
41	
42	Ms. Batt noted there are some title and boundary issues to be cleared up in the next two months and
43	Don Wilson has been hired for that. Ms. Murphy noted that legal counsel will then look over the title

44 45	report and field work summary. Applications for grants will be submitted in the fall. The Town vote for the bond would be next March. Closing would be the first half of 2025. Phase 2 would be creating a
46 47	new parking area on Piscassic Road.
47 48	Proposed Funding Sources Amount Source
49	Newfields
50	USFS Community Forest Program (CFP) \$600,000 Federal
51	NH Land and Community Heritage Investment Program (LCHIP) \$500,000 State
52	NH DES Clean Water State Revolving Fund (SRF) Loan (with some
53	principal forgiven)
54	\$2,424,500 State/ Local
55	Town of Newfields bond Only if SRF
56	not awarded
57 58	Local NH Parks & Recreation Land and Water Conservation Fund (LWCF)* \$500,000 Federal
58 59	Total Estimated Land Cost: Newfields \$3,524,500
60	Exeter
61	NH DES Drinking Water and Groundwater Trust Fund (DWGTF) \$500,000 State
62	Town of Exeter bond \$1,141,500 Local
63	Total Estimated Land Cost: Exeter \$1,641,500
64	*The LWCF grant is a backup, as the timeline may not work for the project – TBD after further consultation with the LWCF program.
65	
66	Mr. Koff asked if there were any comments from the public at 7:25 PM and there were none.
67 68	NOTION: Mr. Keff metioned that a latter of support he issued for the proposal. Mr. Matters seconded
68 60	MOTION: Mr. Koff motioned that a letter of support be issued for the proposal. Mr. Mattera seconded
69 70	the motion. A vote was taken, all were in favor, the motion passed 5-0-0.
70 71	2. Wetland Dredge and Fill application for the Bank Stabilization along the Exeter River at River Run at
72	Exeter Tax Map 105 Lot 79 (Paige Libbey)
73	Exercit fax wap 105 Lot 75 (Faige Libbey)
74	Paige Libbey with Jones & Beach Engineers presented the application for stabilization of the three areas
75	of bank erosion at River Run which has frontage on the Exeter River. There were water main failures
76	which caused erosion several years ago.
77	when eaused crosion several years ago.
78	Ms. Libbey described Area #1 which had two units removed and the proposal to use Gabion baskets and
79	conservation seed mix.
80	
81	Ms. Libbey described Area #2 which she described as a peninsula on Camelot Road with limited access
82	and sheds located between the units. Coir logs and plantings are proposed here.
83	
84	Ms. Libbey described Area #3 which she noted was similar to Area #1.
85	•
86	Ms. Libbey noted she met with NH DES on site and attended a meeting of the local advisory committee.
87	
88	Mr. Koff asked who was doing what with what equipment. Ms. Libbey indicated a contractor has not
89	been chosen yet. The NH DES application has not been submitted yet. The local advisory committee

90 had concerns with stormwater runoff being a contributing factor. Ms. Murphy indicated she visited the 91 site with Doug Eastman, took photos and all homes are prohibited from being put back. The private 92 water system is proposed for be replaced. Ms. Murphy noted it was very obvious from the gushing 93 plume of water that stormwater was not the cause and she shared that information with Theresa. 94 95 Mr. Mattera asked for more information on the Gabions. Ms. Libbey described the front pockets for 96 revegetation, the metal cube with fabric surrounding it and exposed face. Mr. Mattera asked if water 97 would permeate the baskets and Ms. Libbey indicated it would and downed trees will be used for 98 buttresses. 99 100 Ms. Fanger noted the proximity of the buildings to the river and asked if that would change. Ms. Libbey 101 indicated she did not know. Ms. Murphy indicated the Building Inspector would not make that 102 recommendation unless there was imminent risk. 103 104 Mr. Koff asked if equipment would enter the river for Area #2 and Ms. Libbey was uncertain at this time 105 but if that needed to be the case she would come back before the Commission to describe the work. 106 Mr. Mattera asked if there was any active channel erosion and Ms. Libbey indicated not that she was 107 aware of. 108 109 Mr. Koff commented that the proposed trails could reduce success. Mr. Mattera agreed that people 110 needed to be funneled the way they would like and encouraged with perhaps some kind of barrier to 111 stay off the Gabions and plantings. Ms. Libbey described the proposal for the access trail with slope, flat 112 area and slope. Mr. Mattera asked if the bank would be raised up. Ms. Libbey noted she believed 113 material would be moved around but will check whether there is any intent to fill in. 114 115 Mr. Koff opened the hearing to the public. 116 117 Susan Hansen noted she was an abutter across the river. She reviewed the history from 40 years ago 118 when the cliff was man made and filled in with gravel. She expressed concerns with the affect on her 119 property across the river and the wetland on the opposite side upriver. 120 121 Mr. Koff asked if the peninsular area was fill or natural and Ms. Libbey indicated it has been that way for 122 quite a while. He asked if she saw any bricks or rubble in the eroded area or materials leaching into the 123 river. Ms. Libbey indicated she did not have geotechnical data. 124 125 Ms. Murphy asked about FEMA analysis and Ms. Libbey indicated the area was not encroaching into the 126 floodway, the flood plain across was much lower. Mr. Mattera described the workings of the inside of 127 the bow and natural mechanisms of the river. He reminded that there was unfortunately no regulation 128 over what happened 40 years ago, however the scope of the project before them was to stabilize the 129 bank. 130 131 MOTION: Mr. Mattera motioned to send a memo to the State stating that the Commission had no 132 objection to the project as proposed. 133

- Mr. Koff noted concerns with limited access and potential foot traffic being addressed through signageor limiting the area.
- 136
- Mr. Mattera amended his motion. Mr. Madison seconded the motion. A vote was taken, all were infavor, the motion passed 5-0-0.
- 139
- 140 3. Minimum Impact Expedited Wetland Dredge and Fill application for 772 square feet of wetlands
- impact and a Wetland Conditional Use Permit associated with the construction of a residential driveway
 for a new single-family house at 24 Powdermill Road Tax Map 102 Lot 04 (Daniel Coons)
- 143
- 144 Mr. Koff noted that a site walk was done at 5 PM today.
- 145

Dan Coons of Ilex Wetlands Consultants of Wolfeboro presented the proposal for the wetland
conditional use permit for the driveway. He noted the state had already approved the Expedite Dredge
and Fill application. He indicated that the 20-acre parcel will be subdivided so that a five-acre parcel can
have a single-family home built for the daughter of the owners. Initially a ROW easement was proposed
for access, to avoid buffer impacts but wetlands were found on both sides, and it was determined that
the buffer impact coming in from the road would be much less than the ROW. The wetland parallels the
road.

152 153

154 Mr. Madison asked the amount of impact on the ROW versus the road access and Mr. Coons stated that 155 the ROW had 720 SF and the road access would be 624 with buffer impacts in the ROW 2,240 and the 156 road 1,040. The ROW has wetlands on both sides up the middle.

157

158 Mr. Madison asked when the application was going to the Planning Board and Mr. Coons indicated on 159 Thursday. Mr. Madison indicated that he struggled with the difference between the stamps of the 160 certified wetland scientists' delineations and questioned whether third party review may be required. 161 Mr. Koff agreed the open wet meadow was hard to delineate. Mr. Mattera noted the difference 162 between what was observed during the site walk and what was noted on the plan. He questioned the 163 validity of the boundaries based on what was seen in the field today. Mr. Coons indicated he could go 164 out and take another look to see if the area in question warrants flagging as an additional wetland 165 pocket. Ms. Murphy described the three criteria for wetlands to the applicant: plants, soil and 166 hydrology and noted that while the applicants noted it looks different every time all three of those don't

- 167 change from day to day. Mr. Coons indicated that he could check the delineation before Thursday but168 would not have time to change the plan before then, if that became the case.
- 169

170 MOTION: Mr. Koff motioned to draft a memo to the Planning Board describing the additional potential 171 wetland not shown on the plan that was observed during the site walk and that the Commission has 172 asked that the area be reviewed and if determined to be a wetland ten the proposed plan would need 173 to be reviewed to determine if the design is the least impactful. If no additional wetland are found then 174 the Commission is supportive of the plan. 175

- 176 Mr. Koff noted he could attend the Planning Board meeting on Thursday.
- 177

178 Mr. Mattera seconded the motion. A vote was taken, all were in favor, the motion passed 5-0-0. 179 180 4. Minimum Impact Expedited Wetland application for Epping Road Expansion 181 182 Greg Backus presented the proposal for extending the center lines on Epping Road and widening on 183 both sides for 1500.' He described the impact as 886 SF permanent and 700+/- SF temporary impact, 184 mostly roadside ditches. There will be sidewalks and drainage improvements. The town project will 185 improve safety and traffic flow. He described an Iris of concern which was found not to be the species 186 of concern and will close the loop with DES on that. He described the sidewalks to Gateway and the 187 Mobil station and one break due to a ROW. He described stormwater management and catch basins. 188 Detention basins will be expanded and have deep sumps in the catch basins. 189 190 MOTION: Mr. Koff motioned to sign the expedited application. Mr. Mattera seconded the motion. A 191 vote was taken, all were in favor, the motion passed 5-0-0. 192 193 5. Conceptual discussion on the construction of commercial vehicle storage area for Foss Motors at Tax 194 Map 52 Lot 112.2 (Christian Smith) 195 196 Brendan Quigley of Gove Environmental presented the application on behalf of Foss Motors and 197 indicated that Tim Foss was present. He indicated the location of the parcel south of the prior Sylvania 198 property. He indicated the reservoir location and location of the brook. He proposed a parking area out 199 front for storage and display of inventory and a potential building to the rear for offices. He described 200 three potential wetland impacts and the location of the 300' and 150' shoreland protection buffers. The 201 impact would be substantial, 80,000 SF. He did not have a lot of detail concerning stormwater 202 management but described it would be robust in this location. 203 204 Ms. Murphy reminded this was a non-binding, conceptual, review and the Commission would be 205 entitled to differing opinions when reviewing the final plans. 206 Mr. Koff indicated he was not in favor of this proposal for the use or the design, due to the sensitive 207 208 area of the Exeter drinking water source and amount of wetland and shoreland impacts. Mr. Madison 209 agreed and indicated a tree line of some sort should be maintained. Ms. Fanger noted she was no in 210 favor of the proposal either. 211 212 Mr. Madison asked the dimensions of the office space – 22,000 SF. 213 214 Mr. Mattera described the buffer impacts right next to the reservoir. 215 216 Mr. Foss described how long his family had owned the growing business and a desire not to leave Exeter 217 in order to expand but they are maximized and have to grow. 218 219 Mr. Mattera described the purpose of the buffer to protect the water quality and indicated he would 220 need to be shown that the water coming out is cleaner than when it started in terms of stormwater 221 management. Mr. Madison agreed. Ms. Fanger was skeptical that anything could be done to protect

222	the water. Mr. Mattera questioned whether they were putting off the invevitable. Mr. Koff asked if
223	they had considered off-site properties and Mr. Foss described the importance of the display location,
224	and off-site security and maintenance concerns.
225	
226	6. Committee Reports
227	
228	7. Approval of Minutes
229	
230	i. June 13, 2023 Meeting
231	
232	MOTION: Mr. Koff motioned to approve the June 13, 2023 meeting minutes. Mr. Mattera
233	seconded the motion. A vote was taken, all were in favor, the motion passed 5-0-0.
234	
235	8. Correspondence
236	
237	9. Other Business
238	
239	10. Next Meeting: Date Scheduled (8/8/23), Submission Deadline (7/28/23)
240	
241	11. <u>Adjournment</u>
242	
243	MOTION: Mr. Koff moved to adjourn the meeting at 9:41 PM seconded by Mr. Madison. A vote was
244	taken, all were in favor, the motion passed unanimously.
245	
246	Respectfully submitted,
247	
248	Daniel Hoijer, Recording Secretary
249	Via Exeter TV

250 Zoom ID 815 4715 1492