

STANDARD DREDGE AND FILL WETLANDSPERMIT APPLICATION

Water Division/Land Resources Management Wetlands Bureau

Check the Status of your Application

TOWN NAME: Fremont

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

APPLICANT'SNAME: Bernedette & Albert Patterson

		File No.:

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

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

SEC	SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; RSA 482-A:3, I(d)(2))				
Res	Please use the <u>Wetland Permit Planning Tool (WPPT)</u> , the Natural Heritage Bureau (NHB) <u>DataCheck Tool</u> , the <u>Aquatic Restoration Mapper</u> , or other sources to assist in identifying key features such as: <u>priority resource areas (PRAs)</u> , <u>protected species or habitats</u> , coastal areas, designated rivers, or designated prime wetlands.				
Has	Has the required planning been completed?				
Do	es the property contain a PRA?If yes, provide the following information:	Yes No			
•	Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&G) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04.	Yes No			
•	Protected species or habitat? o If yes, species or habitat name(s): NHB Project ID #: NHB21-2707	Yes No			
•	Bog?	Yes No			
•	Floodplain wetland contiguous to a tier 3 or higher watercourse?	Yes No			
•	Designated prime wetland or duly-established 100-foot buffer?	Yes No			
•	Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	Yes No			
Is t	he property within a Designated River corridor? If yes, provide the following information: Name of Local River Management Advisory Committee (LAC): A copy of the application was sent to the LAC on Month: Day: Year:	Yes No			

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SECTION I.IV - JURISDICTIONAL IMPACTS (En	nv-Wt	313.	03(b)	(4))
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Describe how the project avoids and minimizes impacts to wetlands and other areas of jurisdiction under RSA 482-A, especially those in which there are exemplary natural communities, vernal pools, protected species and habitat, documented fisheries, and habitat and reproduction areas for species of concern, or any combination thereof.

The wetland impacts are along the sides of Shirkin Road and therefore already see some minor impacts due to vehicular traffic.

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

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

The proposed project will likely enhance public commerce, navigation and recreation.

escribe how the project avoids and minimizes impact	is to noouplain wetianus triat provi	de flood storage.
he proposed project is to widen the road to minimun pad at this time.	n Town of Fremont standards. Ther	e are no plans to pave the
	*	'
escribe how the project avoids and minimizes impact parsh complexes of high ecological integrity.	s to natural inverse forested wells	nu systems and scrop-sin
he road will be widened to the minimum allowable s	tandard.	
		h :

SECTION I.VIII - DRINKING WATER SUPPLY AND GROUNDWATER AQUIFER LEVELS (Env-Wt 313.03(b)(8)) Describe how the project avoids and minimizes impacts to wetlands that would be detrimental to adjacent drinking water supply and groundwater aquifer levels.	
There are no private residences within 1,000 feet to the proposed project.	51
SECTION I.IX- STREAM CHANNELS(Env-Wt 313.03(b)(9)) Describe how the project avoids and minimizes adverse impacts to stream channels and the ability of such channels than the channels that the channels the channels that the chann	.0
There are no stream channel impacts proposed.	
There are no stream channel impacts proposed.	
There are no stream channel impacts proposed.	
There are no stream channel impacts proposed.	
There are no stream channel impacts proposed.	
There are no stream channel impacts proposed.	

N/A	
escribe how the type of construction	r proposed is the least intrusive upon the public trust that will ensure safe
escribe how the type of construction ocking on the frontage.	
rescribe how the type of construction ocking on the frontage.	
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rescribe how the type of construction ocking on the frontage.	
escribe how the type of construction ocking on the frontage.	n proposed is the least intrusive upon the public trust that will ensure safe

Describe how the structures have been designed to avoid and minimize impacts on ability of abutting owners to use and enjoy their properties.	
N/A	
SECTION I.XIII -SHORELINE STRUCTURES – COMMERCE AND RECREATION(Env-Wt 313.03(c)(4)) Describe how the structures have been designed to avoid and minimize impacts to the public's right to navigation,	
passage, and use of the resource for commerce and recreation.	
N/A	



STANDARD DREDGE AND FILL WETLANDSPERMIT APPLICATION

Water Division/Land Resources Management Wetlands Bureau





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

APPLICANT'SNAME: Bernedette & Albert Patterson	TOWN NAME: Fremont
The state of the s	to the first and

			File No.:
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A person may request a waiver of the requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interest of the public or the environment but is stillin compliance with RSA 482-A. A person may also request a waiver of the standards for existing dwellings over water pursuant to RSA 482-A:26, III(b). For more information, please consult the <u>Waiver Request Form</u>.

SE	CTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; RSA 482-A:3, I(d)(2))				
Re	Please use the <u>Wetland Permit Planning Tool (WPPT)</u> , the Natural Heritage Bureau (NHB) <u>DataCheck Tool</u> , the <u>Aquatic Restoration Mapper</u> , or other sources to assist in identifying key features such as: <u>priority resource areas (PRAs)</u> , <u>protected species or habitats</u> , coastal areas, designated rivers, or designated prime wetlands.				
На	Has the required planning been completed?				
Do	es the property contain a PRA?If yes, provide the following information:	Yes No			
•	Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&G) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04.	Yes No			
•.	Protected species or habitat? o If yes, species or habitat name(s): o NHB Project ID #: NHB21-2707	☐ Yes ⊠ No			
•	Bog?	Yes No			
•	Floodplain wetland contiguous to a tier 3 or higher watercourse?	Yes No			
•	Designated prime wetland or duly-established 100-foot buffer?	Yes No			
•	Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	Yes No			
ls t	he property within a Designated River corridor? If yes, provide the following information: Name of Local River Management Advisory Committee (LAC): A copy of the application was sent to the LAC on Month: Day: Year:	Yes No			

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For dredging projects, is the subject property contaminated? • If yes, list contaminant:	(a)	Yes No
Is there potential to impact impaired waters, class A waters, or outstanding reso	ource waters?	Yes No
For stream crossing projects, provide watershed size (see WPPT or Stream Stats)	:	ovi s
SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i)) Provide a brief description of the project and the purpose of the project, outlini and whether impacts are temporary or permanent. DO NOT reply "See attached below.		
Shirkin Road is a class six road and the applicant needs to up-grade it to a class f property that abuts the road.	five in order to facilit	ate the use of their
SECTION 3 - PROJECT LOCATION		
Separate wetland permit applications must be submitted for each municipality	within which wetland	impacts occur.
ADDRESS: Shirkin Road		
TOWN/CITY: Fremont		
TAX MAP/BLOCK/LOT/UNIT: Road easement		,,
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: N/A		
(Optional) LATITUDE/LONGITUDE in decimal degrees(to five decimal places):	43 00' 55° North	

If the applicant is a trust or a company, then of			
NAME: Bernadette Patterson - Albert Patters		Titation,	
MAILING ADDRESS: 10 Twins Road			
TOWN/CITY: Raymond	ST	TATE:NH	ZIP CODE: 03077
EMAIL ADDRESS: a.e.p.constructionnh@gmai	l.com		
FAX:	PHONE: 603-300-2323		
ELECTRONIC COMMUNICATION: By initialing has relative to this application electronically.	ere: , I hereby authorize NHDES to	communic	ate all matters
SECTION 5 - AUTHORIZED AGENT INFORMAT	ION (Env-Wt 311.04(c))		
LAST NAME, FIRST NAME, M.I.:Seekamp, Mich	ael		
COMPANY NAME: Seekamp Environmental Co	nsulting, Inc.		
MAILING ADDRESS: 129 Route 125			
TOWN/CITY:Kingston	ST	ATE:NH	ZIP CODE:03848
EMAIL ADDRESS: seekampm.sec@comcast.ne	t		
FAX: 603-642-8500	PHONE: 603-642-8300		
ELECTRONIC COMMUNICATION: By initialing h to this application electronically.	ere M.S., I hereby authorize NHDES to co	mmunicate	e all matters relative
SECTION 6 - PROPERTY OWNER INFORMATION If the owner is a trust or a company, then com Same as applicant			l(b))
NAME:Town of Fremont			
MAILING ADDRESS:PO Box 120			
TOWN/CITY:Fremont STATE:NH ZIP COD		ZIP CODE:03044	
EMAIL ADDRESS: landuse@fremont.nh.gov			
FAX: 603-895-3149	PHONE: 603-895-3200		
ELECTRONIC COMMUNICATION:By initialing he to this application electronically.	re , I hereby authorize NHDES to c	communicat	te all matters relativ

SECTION 7 - RESOURCE-SPECIFIC CRITERIA ESTABLISHED IN Env-Wt 400, Env-Wt 500, Env-Wt 600, Env-Wt 700, OR Env-Wt 900 HAVE BEEN MET (Env-Wt 313.01(a)(3)) Describe how the resource-specific criteria have been met for each chapter listed above (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters): Impacts to Prime Wetlands and non-tidal wetlands are minimized to also meet the minimum road width standards for a class-5 town road. The project will essentially extend the Shirkin Road improvement for the Galloway project approved by NH DES in 2021. **SECTION 8 - AVOIDANCE AND MINIMIZATION** Impacts within wetland jurisdictionmust be avoided to the maximum extent practicable (Env-Wt 313.03(a)).*Any project with unavoidablejurisdictional impacts must then be minimized as described in the Wetlands Best Management Practice Techniques For Avoidance and Minimization and the Wetlands Permitting: Avoidance, Minimization and Mitigation Fact Sheet. For minor or major projects, a functional assessment of all wetlands on the project site is required (Env-Wt 311.03(b)(10)).* Please refer to the application checklist to ensure you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable). Use the Avoidance and Minimization Checklist, the Avoidance and Minimization Narrative, or your own avoidance and minimization narrative. *See Env-Wt 311.03(b)(6) and Env-Wt 311.03(b)(10) for shoreline structure exemptions. SECTION 9 - MITIGATION REQUIREMENT (Env-Wt 311.02) If unavoidable jurisdictional impacts require mitigation, a mitigation pre-application meeting must occur at least 30 days but not more than 90 days prior to submitting this Standard Dredge and Fill Permit Application. Mitigation Pre-Application Meeting Date: Month: Day: Year: (N/A - Mitigation is not required) SECTION 10 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c) Confirm that you have submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent unavoidable impacts that will remain after avoidance and minimization techniques have been exercised

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to the maximum extent practicable: I confirm submittal.

(N/A − Compensatory mitigation is not required)

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

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

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

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

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

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

JURISDICTIONAL AREA		PERMANENT			TEMPORARY		
301	ISSICTIONAL AREA	SF	LF	ATF	SF	LF	ATF
	Forested Wetland	485					
	Scrub-shrub Wetland	4,250					
Wetlands	Emergent Wetland						
la Hai	Wet Meadow						
×	Vernal Pool						
	Designated Prime Wetland	3,850					
	Duly-established 100-foot Prime Wetland Buffer						
e	Intermittent / Ephemeral Stream						
Vat	Perennial Stream or River						
Se <	Lake / Pond						
Surface Water	Docking - Lake / Pond						
Su	Docking - River						
Bank - Intermittent Stream							
Banks	Bank - Perennial Stream / River						
B	Bank/ Shoreline - Lake / Pond						
	Tidal Waters						Ħ
	Tidal Marsh						
Tidal	Sand Dune						
Ĕ	Undeveloped Tidal Buffer Zone (TBZ)						
	Previously-developed TBZ						
	Docking - Tidal Water						
TOTAL							
SEC	TION 12 - APPLICATION FEE (RSA 482-A:3, I)						
	MINIMUM IMPACT FEE: Flat fee of \$400.						
	ION-ENFORCEMENT RELATED, PUBLICLY-FUND	ED AND SU	PERVISED	RESTORAT	ION PROJECT	ΓS. REGARDLE	SS OF
	IMPACT CLASSIFICATION: Flat fee of \$400 (refer	to RSA 482	-A:3, 1(c) f	or restriction	ons).		
	MINOR OR MAJOR IMPACT FEE: Calculate using						
	Permanent and temporary	(non-docki	ng): 8,58!	5 SF		× \$0.40 =	\$ 3,434
	Seasonal do	cking struct	ure:	SF		× \$2.00 =	\$
	Permanent do	cking struct	ure:	SF		× \$4.00 =	\$
	Projects pro	posing shor	eline struc	tures (incl	uding docks)	add \$400 =	\$
						Total =	\$
The	application fee for minor or major impact is th	e above cal	culated to	tal or \$400	, whichever	is greater =	\$ 3,434

SECTION 1	3 - PROJECT CLASSIFICATION (Env-Wt	306.05)				
	ne project classification.					
Minimo	ım İmpact Project 🔀 Mino	r Project	Major Project			
SECTION 1	4 - REQUIRED CERTIFICATIONS (Env-Wt	311.11)				
Initial each	box below to certify:		<u> </u>			
Initials:	=					
MS.	To the best of the signer's knowledge and belief, all required notifications have been provided. M.J.					
Initials:						
MA	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.					
Initials: Initials:	The signer understands that: The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: Deny the application. Revoke any approval that is granted based on the information. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641. The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact forestry SPN projects and minimum impact trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II.					
SECTION 15	- REQUIRED SIGNATURES (Env-Wt 311	.04(d); Env-Wt 31	1.11)	-		
SIGNATURE (OWNER):		PRINT NAME LEGIBLY:		DATE:		
SIGNATURE (APPLICANT, IF DIFF ATM FROM OWNER):		PRINT NAME LEGIBLY: 1-18-2022 Albert Patterson		DATE: 1-18-22		
SIGNATURE (AGENT, IF APPLICABLE):	PRINT NAME LEGI		DATE: /-/8-22		
	- TOWN / CITY CLERK SIGNATURE (Env	/-Wt 311.04(f))				
As required plans, and f	by RSA 482-A:3, I(a)(1), I hereby certify our USGS location maps with the town/	that the applican city indicated below	t has filed four application forms, fou	r detailed		
TOWN/CITY	CLERK SIGNATURE:	PRINT NAME LEGIBLY: Nicole E. Clouker				
TOWN/CITY	:Fremont		DATE: 1/24/2022			



WETLANDS FUNCTIONAL ASSESSMENT WORKSHEET

Water Division/Land Resource Management Wetlands Bureau



Check the Status of your Application

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

APPLICANT LAST NAME, FIRST NAME, M.I.: Patterson, Bernadette

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 tomeet federal (US Army Corps of Engineers (USACE); if application and NHDES requirements. Additional requirements are needed for projects in tidal area; please refer to the Coat Worksheet (NHDES-W-06-079) for more information.

Both a desktop review and a field examination are needed to accurately determine surrounding land use, hydrology, hydroperiod, hydric soils, vegetation, structural complexity of wetland classes, hydrologic connections between wetlands or stream systems or wetland complex, position in the landscape, and physical characteristics of wetlands and associated surface waters. The results of the evaluation are to be used to select the location of the proposed project having the least impact to wetland functions and values (Env-Wt 311.10). This worksheet can be used in conjunction with the <u>Avoidance and Minimization Written Narrative (NHDES-W-06-089)</u> and the <u>Avoidance and Minimization 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 HIGHWA	Y METHODOLOGY)			
ADJACENT LAND USE: Sand and gravel, forest products, unofficial shooting range, off road vehicle and party site.				
CONTIGUOUS UNDEVELOPED BUFFER ZONE PRESENT? Yes No				
DISTANCE TO NEAREST ROADWAY OR OTHER DEVELOPMENT (in feet):>1,000 feet				
SECTION 2 -DELINEATION (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)				
CERTIFIED WETLAND SCIENTIST (if in a nor prepared this assessment: Michael Seekar	n-tidal area) or QUALIFIED COASTAL PROFESSIONAL (if in a tidal area) who np CWS # 169			
DATE(S) OF SITE VISIT(S): 2017 through 2021	DELINEATION PER ENV-WT 406 COMPLETED? Yes No			
CONFIRM THAT THE EVALUATION IS BASED ON: Office and Field examination.				
METHOD USED FOR FUNCTIONAL ASSESS USACE Highway Methodology. Other scientifically supported method	MENT(check one and fill in blank if "other"): (enter name/ title):			

SECTION 3 - WETLAND RESOURCE SUMMARY (USACE HIGH	WAY METHODOLOGY; Env-Wt 311.10)		
WETLAND ID: Hard Rock DevThayer & Trst-Town of Fremont on Shirkin Road	LOCATION: (LAT/ LONG) 43d 00'56.72N"/71d07'31.93"W		
WETLAND AREA: 132,872 sq. ft.	DOMINANT WETLAND SYSTEMS PRESENT: Palustrine Scrub/Shrub		
HOW MANY TRIBUTARIES CONTRIBUTE TO THE WETLAND?	COWARDIN CLASS:		
One	Palustrine Scrub/Shrub		
IS THE WETLAND A SEPARATE HYDRAULIC SYSTEM? ☐ Yes ☑ No	IS THE WETLAND PART OF: A wildlife corridor or A habitat island?		
if not, where does the wetland lie in the drainage basin? Near the top	IS THE WETLAND HUMAN-MADE? ☐ Yes ☑ No		
IS THE WETLAND IN A 100-YEAR FLOODPLAIN? Yes No	ARE VERNAL POOLS PRESENT? Yes No (If yes, complete the Vernal Pool Table)		
ARE ANY WETLANDS PART OF A STREAM OR OPEN-WATER SYSTEM? Yes No	ARE ANY PUBLIC OR PRIVATE WELLS DOWNSTREAM/ DOWNGRADIENT? Yes No		
PROPOSED WETLAND IMPACT TYPE: Road widening	PROPOSED WETLAND IMPACT AREA: 8,585 sq. ft.		
CECTION A MISTIANIDE PUNISTIONS AND MALLIES (LICASE LI	ICHWAY METHODOLOGY, Em. We 311 10)		

SECTION 4 - WETLANDS FUNCTIONS AND VALUES (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)

The following table can be used to compile data on wetlands functions and values. The reference numbers indicated in the "Functions/ Values" column refer to the following functions and values:

- 1. Ecological Integrity (from RSA 482-A:2, XI)
- 2. Educational Potential (from USACE Highway Methodology: Educational/Scientific Value)
- 3. Fish & Aquatic Life Habitat (from USACE Highway Methodology: Fish & Shellfish Habitat)
- 4. Flood Storage (from USACE Highway Methodology: Floodflow Alteration)
- 5. Groundwater Recharge (from USACE Highway Methodology: Groundwater Recharge/Discharge)
- 6. Noteworthiness (from USACE Highway Methodology: Threatened or Endangered Species Habitat)
- 7. Nutrient Trapping/Retention & Transformation (from USACE Highway Methodology: Nutrient Removal)
- 8. Production Export (Nutrient) (from USACE Highway Methodology)
- 9. Scenic Quality (from USACE Highway Methodology: Visual Quality/Aesthetics)
- 10. Sediment Trapping (from USACE Highway Methodology: Sediment /Toxicant Retention)
- 11. Shoreline Anchoring (from USACE Highway Methodology: Sediment/Shoreline Stabilization)
- 12. Uniqueness/Heritage (from USACE Highway Methodology)
- 13. Wetland-based Recreation (from USACE Highway Methodology: Recreation)
- 14. Wetland-dependent Wildlife Habitat (from USACE Highway Methodology: Wildlife Habitat)

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 *The Highway Methodology Workbook Supplement*. Second, indicate which functions and values are principal ("Principal Function/value?" column). As described in *The Highway Methodology Workbook Supplement*, "functions and values can be principal if they are an important physical component of awetland ecosystem (function only) and/or are considered of special value to society, from a local, regional, and/or national perspective". "Important Notes" are to include characteristics the evaluator used to determine the principal function and value of the wetland.

Functions/ Values	SUITABILITY (Y/N)	RATIONALE (Reference #)	PRINCIPAL FUNCTION/VALUE? (Y/N)	IMPORTANT NOTES
1	⊠ Yes □ No	Minimal disturbance	Yes No	The subject wetlands have no observable disturbance except for the existing Road (Shirkin Road)
2,	X Yes No	2. 3. 4. 8.	⊠ Yes □ No	Accessability will be improved by this project
3	Yes No	1.	Yes No	Wetlands likely dry up during the Summer in most years
4	X Yes	1. 2. 3. 5. 8. 17, 18.	Yes No	Flood characteristics will not be changed
5	Yes No	4. 6. 10. 15.	Yes No	Recharge is likely but not of primary importance
. 6	Yes No		Yes No	No Threatened or Endangered Species recorded
7	X Yes No	3. 5. 7. 8. 9. 10.	Yes No	Potential sources of excess sediment. Dense vegetation is present
8	Yes No	1. 2. 7. 8. 12. 14.	Yes No	Thickly vegetated
9	X Yes	3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Yes No	Wetland is undisturbed with the exception of Shirkin Road
10	∑ Yes ☐ No	1. 4. 5. 7. 8. 9.	∑ Yes ☐ No	Slow moving
11	☐ Yes ☑ No		Yes No	
12	Yes No	2. 13. 15. 16. 18. 19.	Yes No	Common wetland in this town
13	Yes No	5.	Yes No	There are many more suitable wetlands in town
14	Yes No	1. 3. 4. 5. 7. 8. 13. 14. 19. 20. 21.	∑ Yes ☐ No	Relatively undisturbed

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SECTION 5 - VERNAL POOL SUMMARY (Env-Wt 311.10)

Delineations of vernal pools shall be based on the characteristics listed in the definition of "vernal pool" in Env-Wt 104.44. To assist in the delineation, individuals may use either of the following references:

- *Identifying and Documenting Vernal Pools in New Hampshire3rd Ed.*, 2016, published by the New Hampshire Fish and Game Department; or
- The USACE Vernal Pool Assessment draft guidance dated 9-10-2013 and form dated 9-6-2016, Appendix L of the USACE New England District Compensatory Mitigation Guidance.

All vernal pool ID numbers are to be displayed and located on the wetland delineation of the subject property.

"Important Notes" are to include documented reproductive and wildlife values, landscape context, and relationship to other vernal pools/wetlands.

Note: For projects seeking federal approval from the USACE, please attach a completed copy of The USACE "Vernal Pool Assessment" form dated 9-6-2016, Appendix L of the USACE New England District *Compensatory Mitigation Guidance*.

VERNAL POOL ID NUMBER	DATE(S) OBSERVED	PRIMARY INDICATORS PRESENT (LIST)	SECONDAF INDICATOR PRESENT (LI	RS	LENGTH OF HYDROPERIOD	IMPORTANT NOTES		
1								
2	HERE				100000			
3	18 18	400.00		1:	10000			
4								
5		BIRD			111/0004			
SECTION 6	6 - STREAM RE	SOURCES SUMMARY						
DESCRIPTION OF STREAM:					STREAM TYPE (ROSGEN):			
HAVE FISHERIES BEEN DOCUMENTED? Yes No					DOES THE STREAM SYSTEM APPEAR STABLE? Yes No			
OTHER KEY ON-SITE FUNCTIONS OF NOTE:								
The following table can be used to compile data on stream resources. "Important Notes" are to include characteristics the evaluator used to determine principal function and value of each stream. The functions and values reference number are defined in Section 4.								

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FUNCTIONS/ VALUES	SUITABILITY (Y/N)	RATIONALE	PRINCIPAL FUNCTION/VALUE? (Y/N)	IMPORTANT NOTES		
1	Yes No		Yes No			
2	Yes No		Yes No			
3	Yes No		Yes No			
4	Yes No		Yes No			
5	Yes No	L G	Yes No			
6	Yes No		Yes No			
7	Yes No		Yes No	1		
8	Yes No		Yes No			
9	Yes No		Yes No	PAR		
10	Yes No		Yes No			
11	Yes No		Yes No	HAIR		
12	Yes No		Yes No			
13	Yes No		Yes No			
14	14 Yes No Yes No					
and the same		S (USACE HIGHWAY METHODOLOGY	; Env-Wt 311.10)			
case to		diversity/abundance list.				
ritation (1)	Section 1					
Wetland delineation plans showing wetlands, vernal pools, and streams in relation to the impact area and surrounding landscape. Wetland IDs, vernal pool IDs, and stream IDs must be indicated on the plans.						
(Management)				-		
For projects in tidal areas only: additional information required by Env-Wt 603.03/603.04. Please refer to the Coastal Area Worksheet (NHDES-W-06-079) for more information.						

Memo

NH Natural Heritage Bureau NHB DataCheck Results Letter

Location: Shirkin Road

Please note: portions of this document are confidential.

Maps and NHB record pages are confidential and should be redacted from public documents.

To: MICHAEL SEEKAMP

129 Route 125 Kingston, NH 03848

From: Jessica Bouchard, NH Natural Heritage Bureau

Date: 8/26/2021 (valid until 08/26/2022)

Re: Review by NH Natural Heritage Bureau

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

NHB ID: NHB21-2707 Town: Fremont

Description: Widening Shirkin Road which in this section is a class 6 road.

cc: Kim Tuttle

As requested, I have searched our database for records of rare species and exemplary natural communities, with the following results.

Comments NHB: No Comments At This Time

F&G: Please describe and send photos of wetland impact areas and culvert locations. Describe what size RCPs or CMPs will be put in.

Vertebrate s pecies	State ¹	Federal	Notes
Blanding's Turtle (Emydoidea blandingii)	E		Contact the NH Fish & Game Dept (see below).
Spotted Turtle (Clemmys guttata)	T		Contact the NH Fish & Game Dept (see below).
Wood Turtle (Glyptemys insculpta)	SC		Contact the NH Fish & Game Dept (see below).

¹Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list. An asterisk (*) indicates that the most recent report for that occurrence was more than 20 years ago.

Contact for all animal reviews: Kim Tuttle, NHF&G, (603) 271-6544.

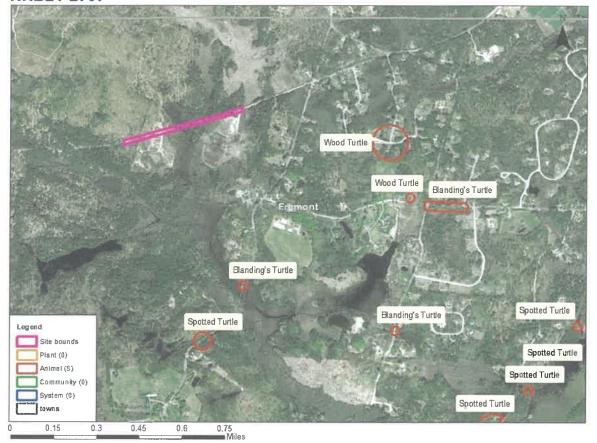
A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed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

Department of Natural and Cultural Resources Division of Forests and Lands (603) 271-2214 fax 271-6488

DNCR/NHB 172 Pembroke Rd. Concord, NH 03301

CONFIDENTIAL - NH Dept. of Environmental Services review

NHB21-2707



Michael Seekamp <seekampm.sec@comcast.net>

1/13/2022 5:54 PM

RE: Shirkin Road widening Fremont NHB21-2707

To Kim Tuttle kim.a.tuttle@wildlife.nh.gov Copy Melissa Doperalski kim.a.tuttle@wildlife.nh.gov Copy Melissa Doperalski kim.a.tuttle@wildlife.nh.gov

Hi Kim,

We have revised the road widening plan in accordance with your suggestions. The changes include increasing the size of the two existing 12" plastic culverts to 18" RCP, specifying rounded "river rocks" for the outlets of the culverts (low flow), no exposed geotextile. An Alteration Of Terrain permit will not be required for this project. I have not observed any Beaver activity in these wetlands. The road will not be paved under this permit. The road improvement will be about 2,040 feet in length and the average increase in height of the road will be approximately one foot. This project extends the approved widening of another section of Shirkin Road with similar wetland impacts east to the junction with Beede Hill Road. ECC-2B erosion control blankets are specified. I have attached a copy of the revised plan and the Google Earth graphic showing approximate locations of wetland impacts and culverts.

Regards, Mike

Michael Seekamp **Seekamp Environmental Consulting, Inc.** 129 Route 125 Kingston, NH 03848 Tel. 603-642-8300

On 10/18/2021 8:53 AM Tuttle, Kim < kim.a.tuttle@wildlife.nh.gov> wrote:

Hi Michael,

Impact Areas #2 and #5 look like they could use a much larger RCP or CMP culvert than a 12". Also consider ellipticals. Impact #5 looks like it is plugged by beavers- please confirm. How many of the culverts have this problem? Please send photos of inlets and outlets of all proposed replacements and consider upsizing at all locations as this is a high priority area for Blanding's and other listed turtles. Are there any other DES permits associated with this job like an AoT? We will only consider plastic culverts at wetland crossings with little or no current and that are backwatered at all times. Please send a job narrative describing the entire project. Will the road be paved? Please include NHB file number in the subject line of all emails pertaining to this job. There looks like there was a diagram for a box culvert in the plan- what size is it and where is it going? If there is little flow at these crossings, rip- rap should not be required at inlets and outlets- replace with natural smooth stone if needed. Avoid using geotextile fabric in wetlands.

How long of a section of the existing 12-16' wide gravel road be widened to 30'? How high will the road be elevated over the current grade? Culverts should be upsized accordingly.

Please provide a simple Google Earth aerial showing locations of all proposed culvert replacements.

ECC-2B is acceptable erosion control matting as it does not contain welded plastic or 'biodegradable plastic' netting or thread (e.g. polypropylene).

Please inform NHFG reviewers if your project will require or may require an Alteration of Terrain Permit. Be advised that as of June 2, 2020, DES has adopted a new rule; Env-Wq 1503.19 intro and (h), pertaining to the criteria for issuance of AoT permits specific to RSA 212-A:9, III threatened and endangered wildlife species.; Please refer to the NHDES webpage, https://www.des.nh.gov/land/land-development, for more information on permit requirements pertaining to threatened and endangered wildlife species and their critical habitats.

*NEW: Please submit AoT-related documents for NHFG review, AoT review inquiries or wildlife biologist questions to MHFGreview@wildlife.nh.gov. If project related: Include the NHB datacheck results letter number (i.e. NHBxx-xxxx) in the email subject line at a minimum. Not including this number will affect our response time and delays of our review. Additional information can include project name and AoT application number. Please include the NHB number in the title of the assessment along with a date (year,month,day).

Thanks,

Kim Tuttle
Wildlife Biologist
NH Fish and Game
11 Hazen Drive
Concord, NH 03301
603-271-6544

From: Michael Seekamp <seekampm.sec@comcast.net>

Sent: Friday, October 15, 2021 3:57 PM

To: Tuttle, Kim < Kim.Tuttle@wildlife.nh.gov > Subject: Minor impact permit in Fremont

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Hi Kim.

I have attached the project plans and photographs of the impact areas for the widening of Shirkin Road in Fremont. The NHB data check report suggested that I send them to you for review. The 12-inch culverts will be replaced with 12-inch culverts. The existing culverts are partially blocked. It does not appear that water has flowed over the road so there is not much of a gradient change from one side to the other. The road over the scrub shrub marsh where impacts 3 & 4 are proposed was filled prior to the implementation of wetland regulations. The photographs are keyed to the plans. I can be reached on my cell phone # 603-778-5532.

Shirkin Road Fremont D & F application. Approximate locations of the wetland impacts are shown as red lines along the road. Red arrows indicate approx. culvert locations 12" (new) 18



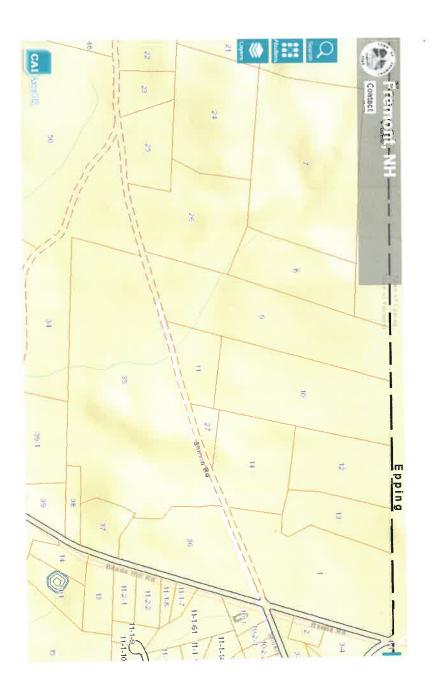


Town of Fremont Prime Wetlands in the vicinity of the proposed project on Shirkin Road.

Construction sequence:

1. Install erosion controls. 2. Remove two existing 12" culverts. 3. Replace with two 18" culverts and an additional 12" culvert. 4. Stake the Town right-of way; survey the area if required. Any assistance of a survey if determined necessary by the town, shall be done at the owner/developer's expense. 5. Grub and Stump. 6. Call for an Inspection 7. Build road to subgrade with gravel base to specified width. 8. Vibra roll. 9. Call for an Inspection. 10. Instal grade stakes at 50 foot intervals. 11. Install twelve inches (12") of four inch minus gravel to specified width (contingent upon development specifications and proposed use). 12. Vibra roll. 13. Call for an inspection. 14. Install six inches (6") of crushed gravel to specified width. 15. Vibra roll. 16. Call for an inspection. 17. Install three foot (3') gravel shoulder on both sides. 18. Loam and seed banks beyond shoulder. 19. Call for an inspection. 20. The road will not be paved.

All work will conform to the Construction Detail D1 (sheet 4) of the Roadway Improvement Plan prepared by Beals Associates, PLLC and will be carried out within the Town Road easement. Erosion controls may be removed after construction is complete.



Abutter list

Parcel ID: 005-035-000-000

Vision ID: 1102

Owner: GALLOWAY TTEES, JOHN & Co-Owner: BRENDA

Mailing Address:

PO BOX 809

PLAISTOW, NH 03865-0809

Parcel ID: 005-027-000-000

Vision ID: 1094

Owner: TOWN OF FREMONT

Co-Owner:

Mailing Address: PO BOX 120

FREMONT, NH 03044-0120

Parcel ID: 005-011-000-000 Vision ID: 1080

Owner: THAYER FAMILY IRREV TRUST

Co-Owner:

Mailing Address: C/O JERRY THAYER 21 RICHMOND STREET

PORTSMOUTH, NH 03801

Parcel ID: 005-009-000-000

Vision ID: 1078

Owner: HARD ROCK DEVELOPMENT LLC

Co-Owner:

Mailing Address: PO BOX 2750

SEABROOK, NH 03874-2750

Parcel ID: 005-026-000-000

Vision ID: 1093

Owner: PATTERSON, BERNADETTE

Co-Owner:

Mailing Address: 10 TWINS ROAD

RAYMOND, NH 03077

Applicant owns 005-034 &

005 - 026



NHB21-2707

Impact area #1 310 Square feet



Impact area #2
660 square feet



NHB21-2707

Impact area #3
3,940 square feet



Impact area #4
3010 square feet



NHB21-2707

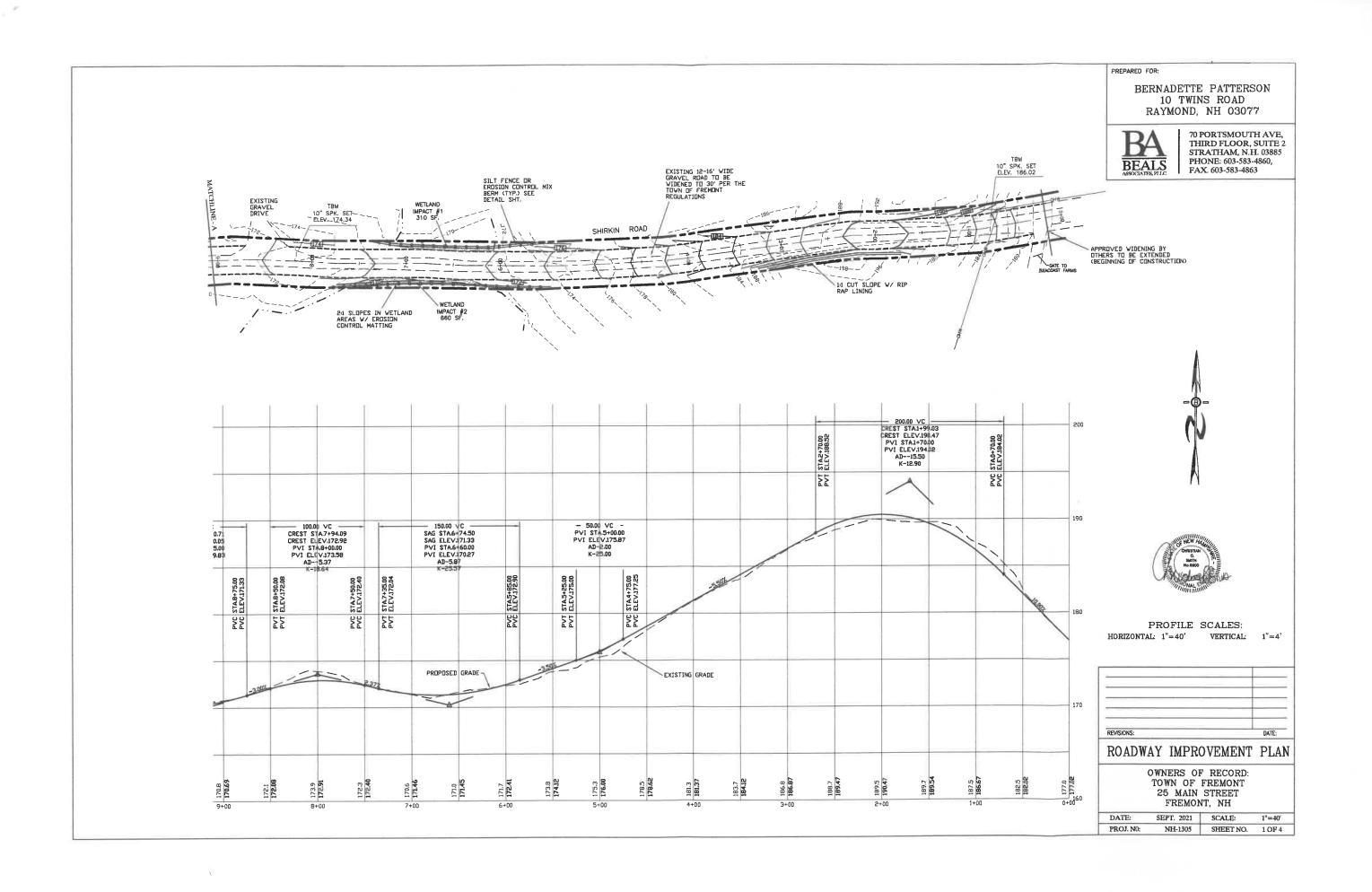
Impact area #6
440 square feet

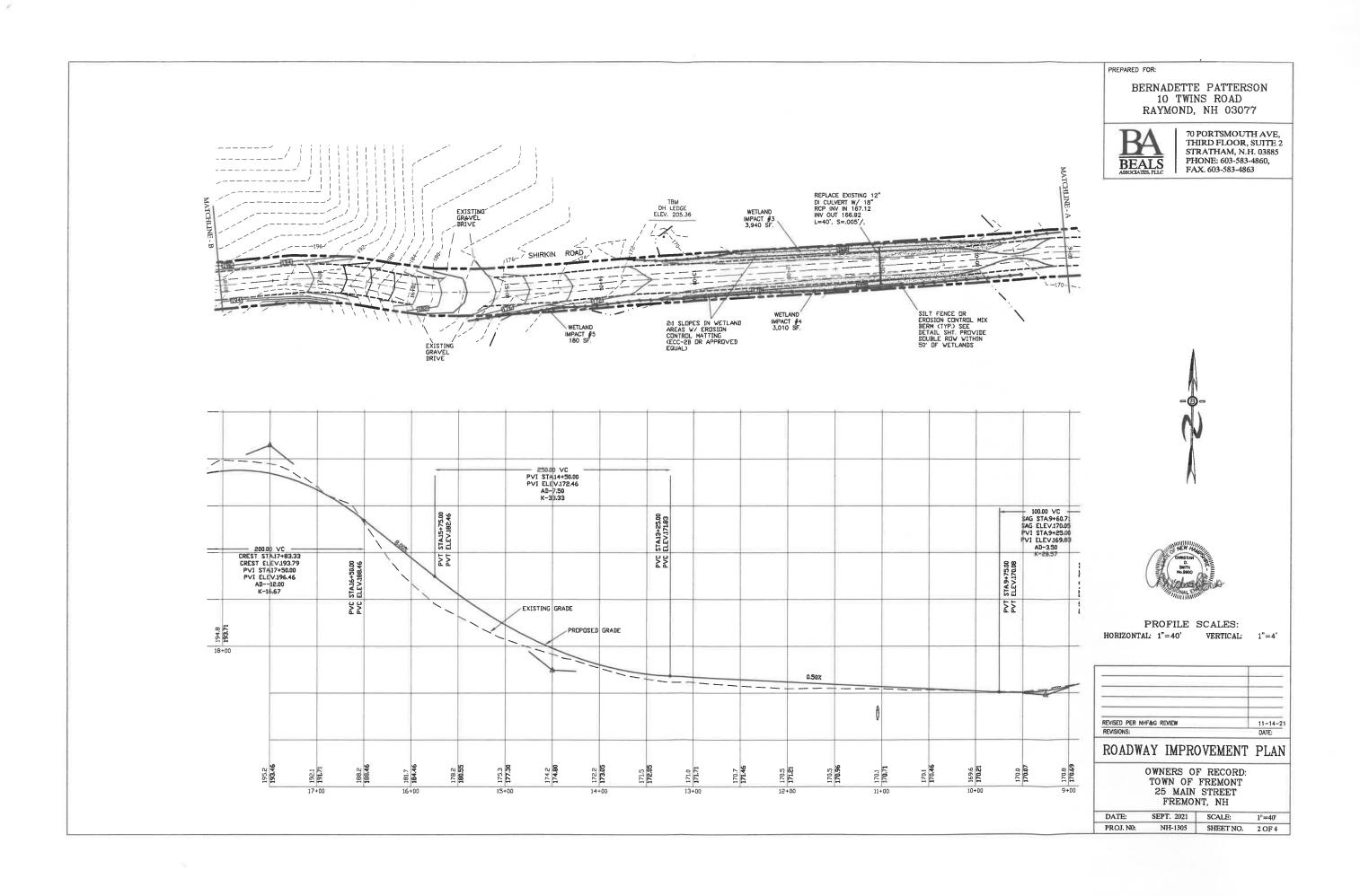


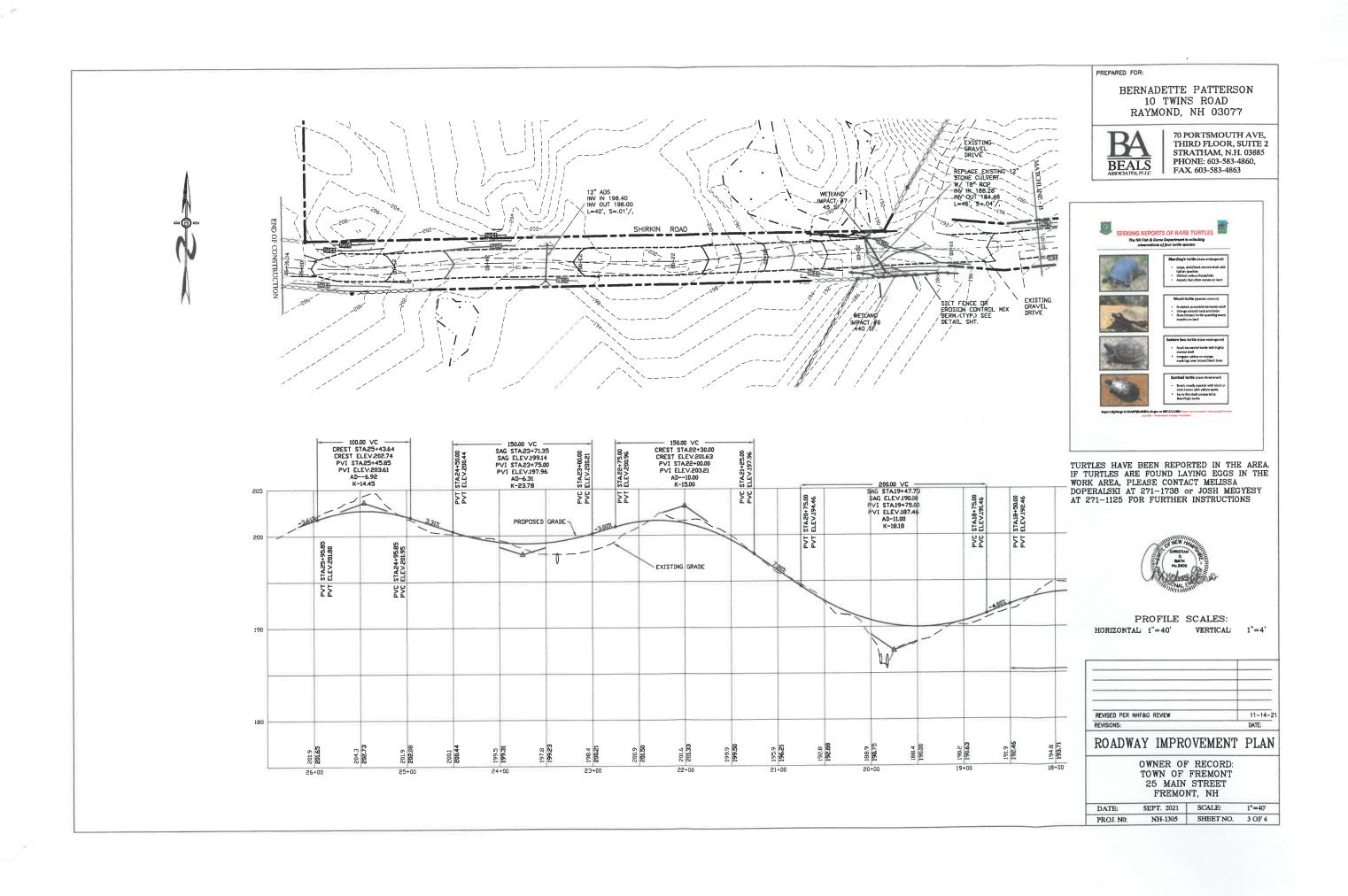
Impact area # 7
45 square feet

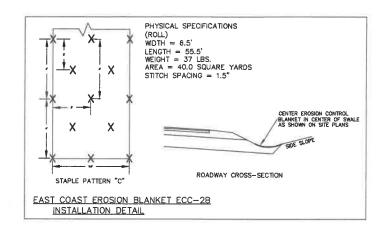


Impact area #5
180 square feet









NOTE : GEOTEXTILE FABRI OR FILTER MATERIAL TO BE PLACED BETWEEN a 888 888 SECTION A-A SECTION A-A PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL

PIPE OUTLET TO WELL-DEFINED CHANNEL

CONSTRUCTION SPECIFICATIONS

1. THE SUB GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND ROUNDED STONE SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.

2. THE ROCK OR GRAVEL USED FOR FILTER OF ROUNDED STONE SHALL CONFORM TO THE SPECIFIED GRADATION. 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK ROUNDED STONE. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES

OF 12 INCHES.

4. STONE FOR THE ROUNDED STONE MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED

7. TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

7. STONE FOR RIRAP SHALL BE ANGULAR OR SUBANGULAR. THE STONES SHOULD BE SHAPED SO THAT THE LEAST DIMENSION OF THE THE LEAST DIMENSION OF THE TRAGMENT.

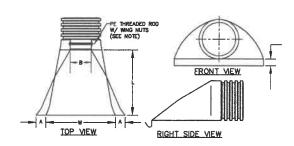
7. FLAT ROCKS SHALL NOT USED FOR ROUNDED STONE. VOIDS IN THE ROCK RIPRAP SHOULD BE FILED WITH SPALLS AND

SMALLER NOURS.

MAINTENANCE

1. THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE ROUNDED STONE HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBTS, AND SEDIMENT THAT COULD CHANNE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO OUTLET PROTECTION.

PIPE DUTLET PROTECTION

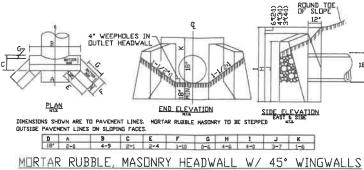


PART No.	PIPE SIZE	A	B(MAX)	н	L	w
1510-NP	15"	6.5"	10"	6.5"	25"	29"
	375 mm	165 mm	254 mm	165 mm	635 mm	735 mm
1810-NP	18"	7.5"	15"	8.5"	32"	35"
	450 mm	190 mm	380 mm	165 mm	812 mm	890 mm
2410-NP	24"	7.5"	18"	6.5"	36"	45"
	600 mm	190 mm	450 mm	165 mm	900 mm	1140 mm
3010-NP	30" 750 mm	10.5" 266 mm	N/A	7.0" 178 mm	53" 1345 mm	68" 1725 mm
3610-NP	36" 900 mm	10.5" 266 mm	N/A	7.0* 178 mm	53" 1345 mm	68" 1725 mm

PE THREADED ROD W/ WING NUTS PROVIDED FOR END SECTIONS 15"-24". 30" & 36" END SECTIONS TO BE WELDED PER MANUFACTURER'S RECOMMENDATIONS.

ADS N-12 FLARED END SECTIONS

NOT TO SCALE (ALL DIMENSIONS ARE NOMINAL)



MORTAR RUBBLE, MASONRY HEADWALL W/ 45° WINGWALLS NOT TO SCALE

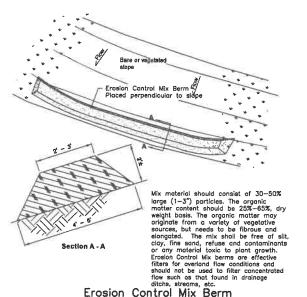
d50	SIZE=	0.50	FEET	6	INCHES
		SMALLER VEN d50 SIZE		STONE	(INCHES)
	100%		9		12
	85%		8		11
	50%		6		9
	15%		2		3

d50 SIZE= 0.75 FEET 9 INCHES % DF WEIGHT SMALLER THAN THE GIVEN d50 SIZE SIZE OF STONE(INCHES) 85% 16 50% 14

BERNADETTE PATTERSON 10 TWINS ROAD RAYMOND, NH 03077



70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2 STRATHAM, N.H. 03885 PHONE: 603-583-4860, FAX. 603-583-4863



LOAM AREA | PAVED AREA 4" COMPACTED LOAM _ & SEEDED SEE NOTES 1 & 2 50' R.O.W. CRUSHED GRAVEL SHOULDER SHOULDER CRAVE TRAVEL WAY SUITABLE BACKFILL COMPACTED AS SPECIFIED 187 MAY 4" MIN. LOAM — % SEED 4' . 4 , P , , P , , P - 6' CRUSHED GRAVEL NHDDT ITEM 304.3 6' 0 18' CRUSHED STONE FOR FUL WIDTH OF THE TRENCH 6' BELOW PIPE IN EARTH 12 BELOW PIPE IN LEDGE -UNDERGROUND ELEC, CABLE, TELE. 0 12" GRAVEL MINIMUM NHDDT ITEM 304.2 GEOTEXTILE FABRIC WRAP ROADWAY UNDER DRAIN AS SHOWN ON PROFILE SHEETS OR ORDERED BY TOWN' CONSULTING ENGINEER OR ENGINEER'S DEPORTED AT A SHOWN OF THE PROFILE OF TH SAND (WHERE REQUIRED) 3/4" CRUSHED NHDDT ITEM 304.1 STONE 3'-0" MIN. OR D + 2'(WHICHEVER IS GREATER) ALL MATERIALS TO BE INSPECTED AND APPROVED BY TOWN ENGINEER AND MEET NHOOT STANDARDS. IE:

1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL
CONFORM TO STREET OPENING REGULATIONS.

2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO
SUBDIVISION SPEC'S. TOWN MAY REQUIRE UNDERDRAIN OR ADDITIONAL DRAINAGE TO INCLUDE DVER EXCAVATION OF UNSUITABLE MATERIALS AND INSTALLATION OF GEOTEXTILE FABRIC, SEE ADDITIONAL NOTES ON DETAIL SHEETS.

TYPICAL DRAINAGE TRENCH DETAIL

TYPICAL CROSS SECTION

AREA OF EMBANKMENT CONSTRUCTION OR ANY DISTURBED AREA TO BE STABILIZED (UPHILL)	THE RELIGIOUS AND ADDRESS OF THE PARTY OF TH
2° MIN. HEIGHT	
8" MIN. COVER	WOVEN WIRE FENCE WY PROPEX-SILT STOP SEDIMENT CONTROL FABRIC OR APPROVED EQUAL HARDWOOD POST
CTION SPECIFICATIONS	SILT FENCE

CONSTRUCTION SPECIFICATIONS

31L | FLNUL

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR
STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID
AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8". 2. THE FENCE
POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A

POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 16" NTO THE GROUND.

3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.

4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF.

5. PLACE THE ENDS OF THE SILT FENCE HOW DEVELOR TO PROVIDE FOR SEDIMENT STORAGE.

6. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED OS.

THE ORDITARY OF THE SILT FENCE HOW DISPOSED OF.

5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.

6. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT THE REMOVAL SHALL BE SIBNOSTHED AND RE-VEGETATED.

SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE

DAILY DURING PROLONGED RAINFALL. MAY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.

2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE. THE FABRIC SHALL BE REPLACED PROMPTLY.

3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.

BARKHER.

4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

REVISED PER NHF&G REVIEW	11-14-21

CONSTRUCTION DETAILS D1

OWNER OF RECORD: TOWN OF FREMONT 25 MAIN STREET FREMONT, NH

DATE:	SEPT. 2021	SCALE: AS-NOTED	
PROJ. NO:	NH-1305	SHEET NO.	4 OF 4