Lamoureux & Dickinson

Civil Engineering ◦ Environmental Engineering ◦ Land Surveying ◦ Wetlands ◦ Transportation ◦ Permitting

September 21, 2016

Tina Heath
District Wetlands Ecologist
Vermont Wetlands Program
Watershed Management Division
One National Life Drive, Main 2
Montpelier, VT 05620-3522

RE: Hiland Property, 8297 Williston Road, Williston
Vermont Wetland Permit Application

Dear Tina,

On behalf of Travis and Stephanie Hiland, we are submitting an application for the construction of a sewer forcemain to serve their home in Williston. You, Stephanie Hiland, and Doug Goulette from our office met onsite on September 7, 2016 to review the wetlands and the proposed impacts.

As discussed during your site visit, we had originally proposed at that time to directional bore about 85' of the proposed forcemain under Allen Brook to reduce wetland impacts, with the remaining forcemain to be open trenched. Since we met, the design has been modified to now include almost the entire forcemain (about 230' of the total 256') to be directionally bored. This greatly reduced the impacts to the wetland buffers from what was reviewed in the field. The resulting impacts are associated only with the very ends of the forecemain, which need to be open trenched as the forcemain pie connects into a manhole at the west end, and a pump station at the east end. Wetland buffer impacts now total only 1,258 sq. ft., and there are no wetland impacts.

Enclosed are the application, check for the application fee, supporting documentation, and the revised project plan. As discussed at the field visit, the Hilands now have a failing wastewater system, which this new forcemain sewer will replace. Anything your office can do to process this simple application in a timely manner would be greatly appreciated, as the applicant would like to perform the work as soon as possible. If you have any questions or need additional information, please don't hesitate to contact me.

Sincerely,

Brian Tremback

Brian Tremback
Certified Professional Soil Scientist
Licensed Designer, Class B
Wetland Scientist
brian@LDengineering.com

Enclosures

cc: Travis & Stephanie Hiland

P:\2016\16085\Wetlands\16085-Wetlands.Cover.Tina.doc

Vermont Wetlands Program
General Permit Qualification Form

Under Sections 9
of the Vermont Wetland Rules

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
WETLANDS PROGRAM

1. General Permit Eligibility Checklist:
If you cannot verify all of the following, stop and proceed to the Individual Permit Application.

- [x] The activity does not qualify as an Allowed Use under Section 6 of the Vermont Wetland Rules.
- [x] The activity does not need additional conditions to protect functions and values.
- [x] All impacts have been avoided and minimized to the greatest extent possible.
- [x] The wetland complex is not significant for Function 5.5 Exemplary Wetland Natural Community or 5.6 Rare, Threatened and Endangered Species Habitat, or applicant has received a waiver letter from VT Fish and Wildlife. (attach waiver)
- [x] The activity is not located in or adjacent to a vernal pool, fen, or bog.
- [x] The wetland is not at or above 2,500' in elevation (headwaters wetland).
- [x] The project is not located in a Class I wetland or associated buffer zone.
- [x] The activity is not an as-built project that constitutes a violation of the Vermont Wetland Rules.
- [x] The activity is not associated with an activity which received a Wetland Permit.

RECEIVED SEP 26 2016 WSMD

2. Project Type *(as described in the General Permit)*

Linear Project (linear facilities)

3. Wetland Type Proposed for Impact

__ Managed Area _ Managed Area _____

4. 50ft Wetland Buffer Proposed for Impact

Managed Area Managed Area

5. **Activity Threshold** *based on the selections above, select the appropriate threshold. If the activity is greater than the thresholds below, stop and proceed to the Individual Permit Application.* eg: Project type is non-linear, wetland and buffer type is managed and natural, and total impacts are 700 sqft → choose option (d) below.

- [ ] (a) The total activity impacts proposed are <3,000 square feet of managed wetland or buffer **and** will not exceed 999 square feet of natural wetland or buffer **and** will not exceed 149 square feet of surface water margins.
- [x] (b) The activity is associated with a linear project **and** total activity impacts proposed are <5,000 square feet of managed wetland or buffer **and** will not exceed 2,999 square feet of natural wetland or buffer **and** will not exceed 149 square feet of surface water margins.

6. Section 8B Specific Activity Best Management Practices *All permittees covered under the VT Wetland General Permit must implement best management practices (BMP) under section V. of the permit. Here, identify if the proposed activity must implement special BMPs in accordance with Section 8B*

- [ ] 8B(a) Placement, relocation, removal, or upgrade of overhead utility lines
- [x] 8B(b) Installation of underground facilities including utilities, dry hydrants, foundation drains, and wells
- [ ] 8B(c) Activities in surface water body margins
- [ ] None Apply

The Secretary may require a person applying for an authorization under a general permit to apply for an individual permit. VWR §9.8. Contact your District Ecologist to verify eligibility before submittal.

Vermont Wetlands Program
Permit Application Database Form

Under Sections 8 and 9
of the Vermont Wetland Rules

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
WETLANDS PROGRAM

Application Submittal Instructions

- If submitting via US post, include a check in the correct fee amount made payable to the "**State of Vermont**," and a CD for applications that contain large files (1 MB or greater).

  Mail to: Vermont Wetlands Program
  Watershed Management Division
  One National Life Drive, Main 2
  Montpelier, VT 05620-3522

- Applications can also be submitted via email to the following address: anr.wsmdwetlands@vermont.gov
  - If submitting via email, please mail a check in the correct fee amount, made payable to the "**State of Vermont**," and a copy of the Vermont Wetlands Program Application Database Form (this page) to the address provided above. ***It is not necessary to mail in a copy of the complete application.***

Applicant Name: Travis and Stephanie Hiland	**Application Preparer Name:** Brian Tremback
Town where project is located: Williston	**County:** Chittenden
Span#: 759-241-11285	**Vermont Wetlands Project (VWP)# if Known:**
Project Location Description: 8297 Williston Road, Williston, VT 05495 *911 street address or direction from nearest intersection*	
Brief Project Summary: This project involves the installation of a sewer forcemain to tie into a municipal sewer collection system to replace a failing on-site wastewater system. The forcemain alignment goes through a Class II wetland buffer, but is entirely within managed lawn areas, except for the portion that will cross under Allen Brook by directional bore.	

Application Type: ☐Individual Permit (multiple wetlands) ☐After the Fact Permit ☐Wetland Determination
☐Individual Permit (single wetland) ☒General Permit Coverage Authorization ☐Permit Amendment: VWP Project #_____

Existing Land Use Type(s): *(Check all that apply)* ☒Residential (single family) ☐Residential (subdivision) ☐Undeveloped
☐Agriculture ☐Transportation ☐Forestry ☐Parks/Rec/Trail ☐Institutional ☐Industrial/Commercial

Proposed Land Use Type(s): *(Check all that apply)* ☒Residential (single family) ☐Residential (subdivision) ☐Undeveloped
☐Agriculture ☐Transportation ☐Forestry ☐Parks/Rec/Trail ☐Institutional ☐Industrial/Commercial

Proposed Impact Type(s): *(Check all that apply)* ☐Buildings ☒Utilities ☐Parking ☐Septic/Well ☐Stormwater
☐Driveway ☐Park/Path ☐Agriculture ☐Pond ☐Lawn ☐Dry Hydrant ☐Beaver Dam Alteration ☐Silviculture
☐Road ☐Aesthetics ☐No Impact ☐Other:_____

Wetland and Buffer Impact Type: *(Check all that apply)* ☐ Dredge ☐Drain ☐Cut Vegetation ☐Stormwater
☒Trench/Fill ☐Other:_____

Wetland Delineation Date(s):

Wetland Improvements		Buffer Zone Improvements		Reason for Improvements
Restoration:	s.f.	Restoration:	s.f.	☐Correction of Violation
Creation:	s.f.	Creation:	s.f.	☒To offset permit impacts
Enhancement:	s.f.	Enhancement:	s.f.	☐Voluntary
Conservation:	s.f.	Conservation:	s.f.	

Wetland Impact Fee Calculations: *Round to the nearest square foot. Fees will auto-calculate.*

Total Wetland Impact (minus linear clear, including ATF)	0 square feet (s.f.)	Wetland Impact Fee:($0.75/sf)	$ 0.00
Total Wetland Clearing (qualified linear projects only)	0 square feet (s.f.)	Wetland Clearing Fee:($0.25/sf)	$ 0.00
After The Fact Wetland Impact (to correct a violation)	square feet (s.f.)	After the Fact Wetland Fee: (0.75/sf) *(Required for after the fact permit applications)*	$ 0.00

Total Buffer Zone Impacts and Calculations: *Round to the nearest square foot*

Total Buffer Zone Impact	1258 square feet (s.f.)	Buffer Impact Fee: ($0.25/sf)	$ 314.50

Additional Fees

	Agricultural Crop Conversion *Check here:* ☐ *(Flat fee of $200.00)*	$ 0.00
	Minimum Application Fee: ($50.00) *Required when total impact fee is less than $50.00*	$ 0.00
	Administrative Fee:	$ 240.00
Make Checks Payable to: State of Vermont	**Total Check Amount:**	$ 554.50

Application for Authorization Under the Vermont General Wetland Permit and Determination Petition

Under Sections 8 and 9
of the Vermont Wetland Rules

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
WETLANDS PROGRAM

Applicant Information: *If the applicant is someone other than the landowner, the landowner information must be included below*			
Applicant Name: Travis & Stephanie Hiland			
Address: 8297 Williston Road	City/Town: Williston	State VT	Zip: 05495
Phone Number:	Email Address:		

Applicant Certification:
By signing this application you are certifying that all of the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.

Applicant Signature: T: N Stephanie Hiland Date: 9/2/16

Landowner Information: *Landowner must sign the application. If landowner is different from the applicant this section must be filled out*			
☒ **Check this box if landowner is the same as the applicant**			
Landowner Name:			
Address:	City/Town	State:	Zip:
Phone Number:	Email Address:		

Landowner Easement: *Attach copies of any easements, agreements, or other documents conveying permission, and agreement with the landowner stating who will be responsible for meeting the terms and conditions of the permit.* ***List the attachment for this information in this section. Describe the nature of the agreement or easement in the space provided below:***

Landowner Certification:
By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.

Landowner Signature: T: N Stephanie Hiland Date: 9/2/16

Application Preparer Information: *Consultant, engineer, or other representative that is responsible for filling out the application, if other than the applicant or landowner.*			
Application Preparer Name: Brian Tremback, Lamoureux & Dickinson Consulting Engineers			
Address: 14 Morse Drive	City/Town Essex Junction	State: VT	Zip: 05452
Phone Number: 802-878-4450	Email Address: brian@ldengineering.com		

Application Preparer Certification:
By signing this application you are certifying that all of the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.

Application Preparer Signature: Brian Tremback Date: 9/21/16

Handwritten signatures are also accepted.

1. Location of wetland and project: *(Individual Permit Application [IPA] Section 1)*
Location description should include the road the wetland is located on, the compass direction of the wetland in relation to the road, 911 street address if available, and any other distinguishing features.

8297 Williston Road in Williston

2. Program Contact: *(IPA Section2)*
Indicate here if you have been in contact with the Wetlands Program before the application submittal.

2.1 Date of Interaction with State Wetland Ecologist	2.2. State Wetland Ecologist Name
Sept. 7, 2016	Tina Heath

3. Wetland Classification: *(IPA Section 3)*

3.1. The wetland is a class II wetland because: *(IPA Section 3.1)*

The wetland is mapped on the VSWI

3.2. Section 4.6 Presumption *(IPA Section 3.2)*
If the wetland meets the Section 4.6 Presumption, it does so because:

<Choose One>

<Choose One>

<Choose One>

4. Description of Entire Wetland: *(IPA Section 4)*
Answer the following questions regarding the entire wetland, which includes all wetland areas connected to the wetland area proposed for impact. Answers may be estimates based on desktop review when wetland extends past the investigation area (parcel boundary). Specific questions about the wetland in the project area will follow.

4.1. Size of Complex in Acres: *(IPA Section 4.1)*
The size of the complex can be obtained from the Wetland Inventory Map for mapped wetlands, or best estimation based on review of aerial photography or site visit. This is not the size of the of the delineated wetland on the subject property unless the entirety of the wetland is represented in the delineation.

61 acres

4.2. Vegetation Cover Types Present: *(IPA Section 4.2)*
List all wetland types in the entire wetland and their percent cover.
***For example:** 50 acres of softwood forested swamp; or 30% scrub swamp, 70% emergent wetland*

70% emergent, 15% scrub, 15% forested

4.3. Pre-project Cumulative Impacts to the Wetland: *(IPA Section 4.7)*
Identify any cumulative ongoing impacts outside of the proposed project that may influence the wetland.
***Examples include but are not limited to:** Wetland encroachments on and off the subject property, land use management in or surrounding the wetland, or development that influences hydrology or water quality. List any past Vermont Wetland Permits or CUD's related to this property.*

Pre-project impacts include hydrology changes that have resulted in stream downcutting, placement of fill for roadway construction, and limiting the brook's lateral movement with the culvert under Williston Road.

5. Context of Subject Wetland: *(IPA Section 5.1)*
Describe where the subject wetland is in the context of the larger wetland or wetland complex described above.
***For example:** Upslope/downslope, narrow eastern "finger", 400 ft. from open water portion.*

The wetland is a portion of a larger riparian wetland that borders Allen Brook and its tributaries.

6. Subject Wetland Vegetation: *(IPA Section 5.3)*
List dominant wetland vegetation cover type and associated dominant plant species. For example: emergent marsh with cattails; forested swamp dominated by red maple and yellow birch; shrub swamp dominated by speckled alder and peat moss; wet meadow dominated by reed canary grass.

Near the pump station-Emergent wetland with reed canary grass, cattails, sweetflag, and spotted touch-me-not. Riparian wetland is sparsely forested w/ boxelder, reed canary grass, ostrich fern, and spotted joe pye weed.

7. Buffer Zone: *(IPA Section 5.6)*
Describe the buffer zone of the subject wetland

7.1 Buffer Land Use: *(IP Section 5.6.1)*
For example: *Mowed shoulder, forested, old field, paved road, and residential lawns, etc. Describe any previous and ongoing disturbance in the buffer zone.*

In the project area, the buffer zone is mowed lawn.

8. Wetland Function Summary: *(IPA Section 6)*
Check which functions are present in the wetland complex

☒ Flood/Storm Storage	☐ RTE Species
☒ Surface & Groundwater Protection	☐ Education & Research
☒ Fish Habitat	☐ Recreation/Economic
☒ Wildlife Habitat	☒ Open Space/Aesthetics
☐ Exemplary Natural Community	☐ Erosion Control

9. Overall Project Description: *(IPA Section 17)*

9.1. Overall Project Purpose: *(IPA Section 17.1)*
Description of the basic project.
For example: *six-lot residential subdivision; expansion of an existing commercial building, building a single family residence.*

This project involves construction of about 256' of new sewer piping to serve a single family house. The existing on-site wastewater system is failing. A force main will be installed so that the house can pump sewage to the nearby municipal sewer main. 230' of the pipe will be directional bored under Allen Brook, with the remaining pipe being open-trenched.

10. Project Details: *(IPA Section 18)*
Provide details regarding specific impacts to the wetland and buffer zone.

10.1. Specific Impacts to Wetland and Buffer Zone Dimensions: *(IPA Section 18.1)*
List portions of the project that will specifically impact the wetland or buffer zone and their dimensions.
For example: *driveway crossing with 16' wide fill, installation of buried sewer force main with 5' trench Including fill footprint.*

The installation of the forcemain will impact only two small areas of lawn at either end of the directional bore.

10.2. Bridges and Culverts: *(IPA Section 18.2)*
Culvert circumference, length, placement and shapes, or bridge details. List any stream alteration permits that are required or obtained where perennial streams or rivers are involved.

As this project will directional bore under Allen Brook, a Stream Alteration Permit is not required.

11. Wetland and Buffer Zone Impacts: *(IPA Section 19)*

11.1. Wetland Impacts: *(IPA Section 19.1)*

Summarize the square footage of impact in the appropriate category. ***Round to nearest square foot***

Permanent Wetland Fill	0	s.f.
Temporary Wetland Impact		s.f.
Other Permanent Wetland Impact ***(this number includes clearing of woody vegetation, dredging, and does not include fill)***		s.f.
Total Wetland Impact:	0	s.f.

Describe in detail the proposed impact to wetlands
For example: *Fill for road crossing, temporary impacts for trench and fill related to utility installation.*

There are no proposed impacts to wetlands - the force main will be installed under the brook and riparian wetlands using directional boring

11.2. Buffer Zone Impacts: *(IPA Section 19.2)*

Summarize the square footage of impact in the appropriate category.

Temporary Buffer Impact	1258	s.f.
Permanent Buffer Impact	0	s.f.
Total Buffer Impact:	1258	s.f.

Describe in detail the proposed impact to buffer zones
For example: Addition of fill along roadway embankment extending into buffer zone.

Excavation, pipe installation, and backfilling within the buffer zone.

11.3. Cumulative Impacts: *(IPA Section 19.3)*

List any potential cumulative or ongoing, direct and indirect impacts on the functions of the wetland.
For example: *Increased noise from parking lot, vegetation management, inputs from stormwater pond outlet, reduction in flood storage volume from the addition of fill from the project.*

There are no anticipated cumulative impacts.

12. Mitigation Sequence: *(IPA Section 20)*
Please refer to Section 9.5b of the rules on Mitigation Sequencing for this section.

12.1. Avoidance of Wetland Impacts: *(IPA Section 20.1)*

12.1.1. Can the activity be located on another site owned or controlled by the applicant, or reasonably available to satisfy the basic project purpose? If not, indicate why. Cite any alternative sites and explain why they were not chosen.

Because of the site-specific nature of the project, there are no other sites relevant to the project purpose.

12.1.2. Can the proposed activity be practicably located outside the wetland/buffer zone? If not, indicate why. Explain the alternatives you have explored for avoiding the wetland and buffer onsite, And why they are not feasible.

Because of the location of the wetlands and buffers, there is no way to access the municipal sewer without crossing them.

12.2. Avoidance to the Impact to Functions and Values: *(IPA Section 20.2)*

12.2.1. If the proposed activity cannot be practicably located outside the wetland/buffer zone, have all practicable measures been taken to avoid adverse impacts on protected functions?

■ Yes ☐ No

12.2.2. What design alternatives were examined to avoid impacts to wetland function?
For example: *Use of matting, relocation of footprint, etc.*

Open trenching across the brook and the riparian wetlands was considered but was felt to be a less predictable and potentially more destructive method than directional boring.

12.2.3. What steps have been taken to minimize the size and scope of the project to avoid impacts to wetland functions and values? Include information on project size reduction and relocation.

Directional boring will be used to cross under Allen Brook, with the remaining pipe installed in an open trench. Buffer disturbance will be minimized by limiting the work zone with barrier and silt fence. At the completion of work, disturbed soil will be returned to prior grade and revegetated so that there should be no effect on wetland and buffer functions and values.

12.2.4. Explain how the proposed project represents the least impact alternative design. Explain why other alternatives, which you described above, were not chosen.

Connection to the municipal sewer is the best long term solution. Directional boring will avoid impact to the Class II wetland. Open trenching only in existing lawn areas will avoid Class II wetland impact, minimize buffer impact, and be temporary. Installing a new on-site wastewater system on the east side of Allen Brook was considered, but given the close proximity of the municipal sewer, an on-site system is a less desirable solution and one that would require more maintenance. Although additional directional boring could have reduced buffer impact, its high cost makes using it for more than the wetland crossing prohibitively expensive.

13. Wetland Determination: *(IP Section 21)*
If the application involves a wetland determination please answer the following.

■ Wetland is mapped or contiguous to the Vermont Significant Wetland Inventory Map
☐ Wetland is not mapped on or contiguous to the Vermont Significant Wetland Inventory Map

13.1. Reason for Petition: *(IP Section 21.1)*
Please choose one from the dropdown menu.

<Choose One>

13.3. Determination Narrative: *(IP Section 21.2)*
Please provide any narrative to support the petition for a wetland determination here, including previous decisions by the Secretary or Water Board. Determinations are made based on an evaluation of the functions and values present. Here add narrative description on the functions listed in section 8 of this application and described in section 5 of the Vermont Wetland Rules. ***For example:*** *Wetland provides water storage and surface water protection because it is large in size, concave, and naturally vegetated.*

14. Supporting Materials: *(IP Section 22)*

*****ADDITIONAL MATERIALS REQUIRED TO CALL APPLICATION COMPLETE***

14.1. **Location Map: *(IP Section 22.1)*
Provide a location map that is 8 ½" x 11" and separate from any site plans.
The Vermont Natural Resources Atlas is appropriate using USGS topography map base layer, roads, and VSWI wetlands.

Date	Title
8/30/2016	Natural Resources Map

14.2. **Site Plan(s): *(IP Section 22.2)*
Please list by date, date of last revision, author, and title. Plans must include wetland delineation and buffer zones, limits of disturbance, erosion controls, building envelopes, and any permanent memorialization.

Title	Author	Date	Last Revision Date
Site Plan	Lamouruex & Dickinson	9-19-16	

14.3. Other Supporting Documents: *(IP Section 22.5)*
Provide any other documentation that supports the application.
Examples include but are not limited to: *Photographs, easements, agreements, restoration/plan, GIS shapefiles, additional ACOE forms.*

Date	Last Revision	Author	Title
8-24-2016		Lamoureux & Dickinson	Photos of the Project Site

Photos of the Project Site (1 of 2)

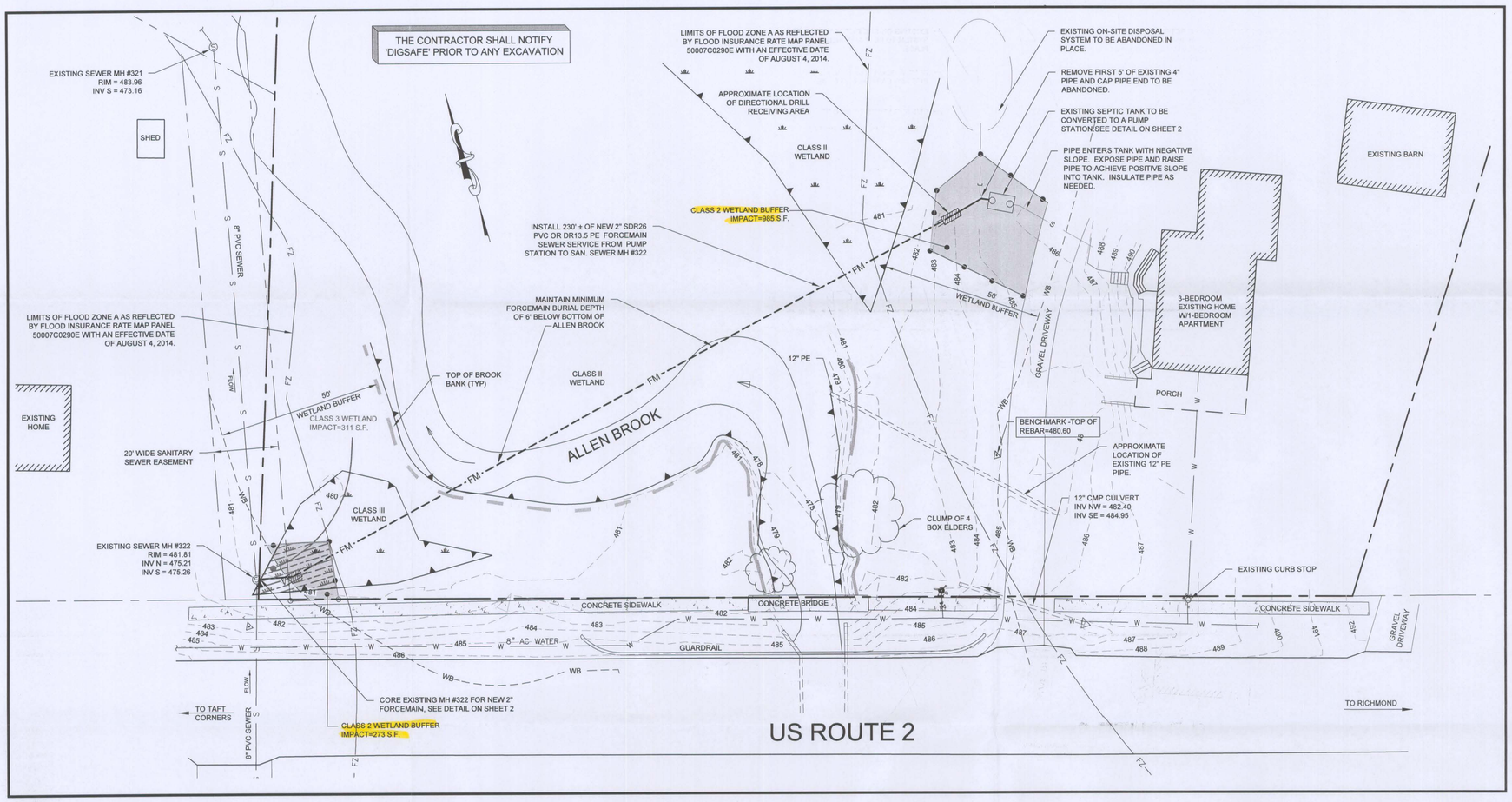
Photo 1. View to the south towards Williston Road from the pump station. The house is just off the left edge of the photo. The proposed force main would run to a directional boring staging area in the lawn and then angle to the right and cross the brook just this side of the tree at the right side of the photo. (August 24, 2016)

Photo 2. View eastward towards the house. The force main would cross the brook in line with the visible portion of the house to a directional boring receiving area in the lawn a short distance in front of the camera. (August 24, 2016)

Photos of the Project Site (2 of 2)

Photo 3. View westward from the Allen Brook pedestrian bridge. Williston Road is on the left. The proposed force main would be directional bored under Allen Brook and its riparian wetlands. Open trenching for force mian installation would begin in the lawn and run to the sewer manhole beyond the tree to the right of the sidewalk. (August 24, 2016)

Photo 4. This is the sewer manhole that will be the connection point for the proposed force main. (August 24, 2016)

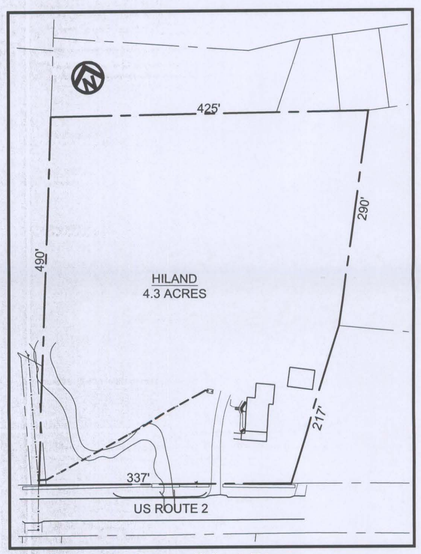


Sewer Service Site Plan

GRAPHIC SCALE

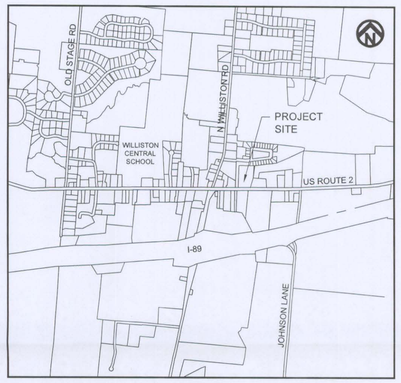
20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.



Overall Lot Plan

SCALE: 1" = 100'



Location Map

NTS

LEGEND

- PROPERTY LINE
- 481 EXISTING CONTOUR (MINOR)
- 480 EXISTING CONTOUR (MAJOR)
- EXISTING TREELINE
- SILT FENCE
- CONSTRUCTION BARRIER FENCE
- S EXISTING SEWER MAIN & MANHOLE
- W EXISTING WATER MAIN, VALVE & HYDRANT
- FM NEW FORCEMAIN SERVICE
- PROPOSED DIRECTIONAL DRILL BORE/RECIEVING AREAS
- WETLAND / UPLAND EDGE OF WETLAND
- WB EDGE OF WETLAND BUFFER

DESIGN DATA

1. THIS DESIGN DEPICTS THE CONNECTION OF AN EXISTING BUILDING TO MUNICIPAL SEWER. THE EXISTING ON-SITE WASTEWATER SYSTEM WILL BE ABANDONED WHEN THE MUNICIPAL CONNECTION IS MADE.
2. BASIS OF DESIGN

3 BEDROOM HOME @ 210 GPD	= 210 GPD
1 BEDROOM APARTMENT	
1 BEDROOM @ 2 PERSONS/BEDROOM = 2 PERSONS	
2 PERSONS @ 70 GPD/PERSON	= 140 GPD
TOTAL DESIGN FLOW =	350 GPD

GENERAL CONSTRUCTION SPECIFICATIONS

1. A PORTION OF THE PROPOSED SANITARY FORCE MAIN SHALL BE INSTALLED BY MEANS OF DIRECTIONAL BORING UNDER THE BROOK. THE LOCATION OF DIRECTIONAL DRILL BORE & RECEIVING PITS ARE APPROXIMATE AND SHOULD BE VERIFIED PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION OF 6' BELOW ALLEN BROOK BED AND THE PIPE.
2. UTILITY INFORMATION SHOWN HEREON WAS OBTAINED FROM BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING VEGETATION, PAVEMENT, AND STRUCTURES NECESSARY TO COMPLETE THE WORK, UNLESS NOTED ON THESE PLANS. THE CONTRACTOR SHALL REMOVE ALL TRASH FROM SITE UPON COMPLETION OF CONSTRUCTION. ANY SURFACES, LINES OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO BEGINNING OF CONSTRUCTION AT THE CONTRACTOR'S OWN EXPENSE.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE TOWN OF WILLISTON PUBLIC WORKS STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE PROJECT APPROVALS AND PERMITS, AND THIS PLAN.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A NUISANCE OR SAFETY HAZARD. WHERE AND WHEN DEEMED NECESSARY, THE CONTRACTOR WILL BE REQUIRED TO WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF STARTING ANY WORK IN ORDER TO ENSURE COMPLIANCE WITH THE PLANS.
7. PRIOR TO BEGINNING CONSTRUCTION, ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER.
8. LAMOUREUX & DICKINSON WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT MAY ARISE FROM THE FAILURE OF THE CONTRACTOR TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THAT THE PLANS CONVEY.

NOTES

1. THIS PLAN IS NOT A BOUNDARY SURVEY AND IS NOT TO BE USED FOR CONVEYANCE. THE BASEMAP WAS PREPARED USING INFORMATION GATHERED FROM TAX MAPS, RECORD PLANS, AERIAL IMAGERY, AND A FIELD SURVEY.
2. UTILITIES SHOWN ARE BASED ON PHYSICAL EVIDENCE FOUND DURING A FIELD SURVEY AND RECORD INFORMATION AS SHOWN ON SHEET 66 OF AS-BUILT DRAWINGS BY ENGINEERS INCORPORATED OF VERMONT, WITH A DATE OF JULY 1981.
3. PROPERTY LINES ARE BASED ON PHYSICAL EVIDENCE FOUND AT THE PROPERTY CORNERS, RIGHT-OF-WAY MONUMENTATION, AND A BOUNDARY SURVEY OF THE PROPERTY PREPARED BY PALMER COMPANY, LTD. WITH A DATE OF JULY 16,1980.

STATE OF VERMONT — DOUGLAS J. GOUDREAU — No. 5611 — REGISTERED PROFESSIONAL ENGINEER

Date	Revision	By
9.19.16	Revised directional bore alignment and length	DJG

These plans shall only be used for the purpose shown below:

- [ ] Sketch/Concept
- [ ] Preliminary
- [x] Final
- [ ] Act 250 Review
- [ ] Construction
- [ ] Record Drawing

HILAND PROPERTY

8297 WILLISTON ROAD
WILLISTON, VT 05495

NEW MUNICIPAL SEWER FORCEMAIN CONNECTION

SITE PLAN

Project No.	16085
Survey	L&D
Design	NDS
Drawn	NDS
Checked	DG
Date	8-23-16
Scale	AS SHOWN
Sheet number	1 of 2

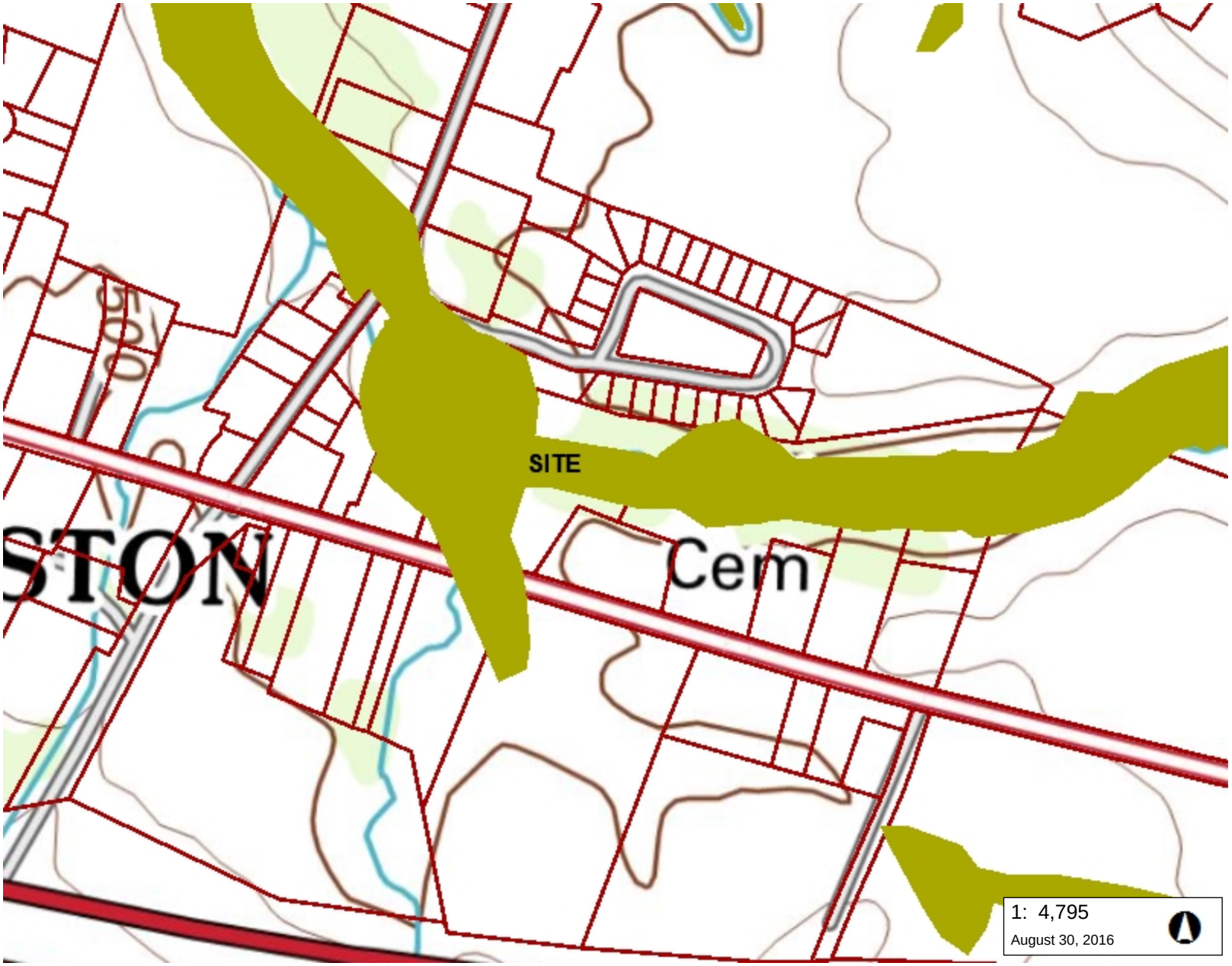
Lamoureux & Dickinson
Consulting Engineers, Inc.
14 Morse Drive, Essex, VT 05452
802-878-4450 www.LDengineering.com

VERMONT

Natural Resources Atlas

Vermont Agency of Natural Resources

vermont.gov



LEGEND

- Wetlands - VSWI
  - Class 1 Wetland
  - Class 2 Wetland
- Parcels (where available)
- Town Boundary

1: 4,795

August 30, 2016

244.0 0 122.00 244.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 400 Ft. 1cm = 48 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

NOTES

Map created using ANR's Natural Resources Atlas