FY17 Vermont Better Roads Grant Application

Please complete this page ONCE and return with your Grant Category Application(s)

Town/Organization: Town of North Hero Contact Person(s): Jim Dubuque

Address: P.O. Box 38, 6441 US Rte. 2. North Hero, Vt. 05474

Street Address *Town* *Zip*

Email: publicworksnorthherovt.com Phone: (802) 343 - 9493

DUNS #: 32401671 Fiscal Year End Month (MM): 6

Accounting System: ☒ Automated ☐ Manual ☐ Combination

Please use the suggested documentation checklist below to ensure that all of the relevant items regarding your application have been included.

- ☑ Grant application cover sheet (Only submit one)
- ☑ Grant application form (One per category/project)
- ☑ Itemized Cost estimate for labor, equipment, and materials (see enclosed Cost Estimate Worksheet). If applicable, please break down funding by source (i.e. different grant sources)
- ☑ Project Location Map (please show location of affected water)
- ☑ Sketch of proposed erosion control measures or other management practices, including distances in feet
  - Also show approximate location of town/other right-of-way and/or property lines
- ☑ Photo(s) of the project area
- ☐ Letters of Support (RPC, VTrans District Technical Staff, ANR Rivers and Streams Engineers, etc.)
- ☐ If Category C River/Road Conflict or Category D River/Stream Structure or Culvert, you must attach ANR/ACOE consultation

Vermont Better Roads Grant Program Application

Please complete one application per category and/or project you are applying for. You may make copies of the application for multiple applications per category and/or multiple categories.

Please check the Category you are applying for:

- ☐ B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation Retrofit for both gravel and paved roads
- ☑ C. Correction of a Stream Bank or Slope Related Problem
- ☐ D. Structure/culvert upgrades

Town/Organization: Town of North Hero

Project Name: Abnaki Road Slope Stabilization

Road Name: Abnaki Rd. TH #: 11 Structure # (if applicable): _____

Road Type: Paved Uncurbed

Class 3

Watershed: Adjacent to Lake Champlain

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion):

Precious high water has eroded the roadway slope which is causing roadway structural stability problems and erosion during high water and wind events. There is also an undersized cross culvert at the site that should be replaced.

Description of Project and how you plan to complete the work (ex. Stone line 500' of ditch by reshaping ditch and stone lining, working from the top of the project down to the bottom):

Proposed project would include replacing an undersized cross culvert and repairing the road slope by installing heavy stone fill through the eroded area.

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch):

This project would stabilize the roadway embankment and eliminate existing erosion of the roadway slope. The new culvert will be discharging drainage into a stone lined splash pool to to prevent soil erosion directly into Lake Champlain

Better Roads
Clean Water You Can Afford

VTrans
VERMONT
AGENCY OF NATURAL RESOURCES

Describe how the grant funds will be spent and/or attach a project budget:

See Attached Estimate

How do you plan to meet the required 20% match on this grant?:

Cash and/or Town Labor and available town equipment.

Requested Grant Amount ($20,000 max Category B, $40,000 max Categories C & D): $ 12,906.93

Estimated Total Project Cost (including 20% local match): $ 16,133.66

Estimated Completion Date: 10/30/2016

REQUIRED ATTACHMENTS:

- [x] Itemized Cost Estimate (labor, equipment, materials)
  (For assistance, call Better Backroads at 802-828-4585)
- [x] Project Location Map
  (Please show location of affected water; 1:12,000 USGS map, if possible)
- [x] Sketch of proposed erosion control measures, including:
  - [x] Distances (ft.)
  - [x] Estimate of waste & borrow quantities
  - [x] Approx. location of town/other right-of-way and/or property lines
- [x] Photo(s) of the project area.
- [ ] Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- [ ] If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer.
- [ ] Other appropriate supporting documents.

By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

Name: [signature] 7/7/16 Title: Selectboard Chair

Better Roads

VTrans VERMONT AGENCY OF NATURAL RESOURCES

Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 0-50'

Progress to Date:

None

Is there an emergency reason this project must be completed quickly? If yes, please explain:

The town of North Hero has plans this year to improve the road surrounding this project, by widening the existing narrow pavement width, and adding a narrow road shoulder.
It would be advantageous to complete this project at the same time.

Has this project been identified through a municipal road inventory, capital budget plan, tactical basin plan, culvert inventory, or other management plan? If yes, please list which.

○ Yes: _____ ◉ No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTrans District Technical staff, Basin Planner etc.):

Project should not need permits as it is above elevation 98.00, If BR Grant is received, US Army Corps of Engineers will be contacted prior to any work.

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).

Yes

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).

Some - The Town Public Works Foreman will oversee the work with the assistance of hired equipment which the Town does no have.

COST ESTIMATE WORKSHEET

TOWN & ROAD NAME: North Hero - Avnaki Rd. - TH 11 - Class 3 **PROJECT NAME:** **Abnaki Rd. BR Slope Stabilization Project**

LABOR	RATE		Unit	# Units	TOTAL (Rate X Hours)		
Foreman	$ 30.00		Hrs.	30	$ 900.00		
Equipment Operator	$ 28.00		Hrs.		$ -		
Maintenance Worker	$ 25.00		Hrs.	30	$ 750.00		
					$ -		
						TOTAL LABOR	$ 1,650.
EQUIPMENT	**RATE**		**Unit**	**# Units**	**TOTAL (Rate X Hours)**		
Baby Dump Plow Truck - Town	$ 51.43	VTrans	Hrs.	10	$ 514.30		
Single Axle Truck - Town	$ 112.13	VTrans	Hrs.	10	$ 1,121.30		
Tandem Truck Hired w/operator	$ 95.00		Hrs.	20	$ 1,900.00		
Excavator - Hired w/operator	$ 130.00		Hrs.	20	$ 2,600.00		
Wheeled Backhoe - Town	$ 35.32	VTrans	Hrs.	8	$ 282.56		
						TOTAL EQUIPMENT	$ 6,418.1
MATERIALS	**RATE**		**Unit**	**# Units**	**TOTAL (Rate X Hours)**		
Culvert - 18"X 40' - HDPEP	$ 12.95		L.F.	40	$ 518.00		
Stone Fill - Type 111	$ 16.00		C.Y.	300	$ 4,800.00		
Plant Mix Gravel - Construct Shoulder - Culvert	$ 16.00		Ea.	60	$ 960.00	1	
Bituminous Hot Mix Road Patch - Culvert	$ 150.00		Ton	3	$ 450.00		
Seed	$ 2.50		Lb.	15	$ 37.50		
Mulch	$ 5.00		Bale	10	$ 50.00		
Remove & Reset Fence	$ 4.50	VTrans	L.F.	150	$ 675.00	TOTAL MATERIALS	$ 6,815.5
MISCELLANEOUS							
Traffic Control	$ 500.00		L.S.	1	$ 500.00		
Layout - Inspection - Easements, etc.	$ 500.00		L.S.	1	$ 750.00		
						TOTAL MISCELLANEOUS	$ 1,250.0
						GRAND TOTAL	$ 16,133.6
						MATCH - 20%	$ 3,226.7

County-Town Code: 0704

NORTH HERO, GRAND ISLE COUNTY - 2015

MILEAGE SUMMARY

CLASS 2		
TH-1	3.660	
TH-2	3.600	
TH-3	1.740	
TOTAL CLASS 2		9.000
CLASS 3		
TOTAL CLASS 3		8.69
TOTAL TOWN		18.080
US HIGHWAY		
US-2	9.340	
TOTAL US HIGHWAY		9.340
TOTAL STATE		9.340

TOTAL, TRAVELED HIGHWAYS, FEB. 10, 2016: 27.420

TOWN HWY. No.	LENGTH IN MILES CLASS 3	CLASS 4
1	1.04	
3	0.30	(0.10)
6	0.24	
7	1.05	
8	1.01	
9	0.83	
10	0.80	
11	1.10	
12	0.12	
13	0.38	
14	0.32	
15	0.34	
TOTAL	8.69	0.10

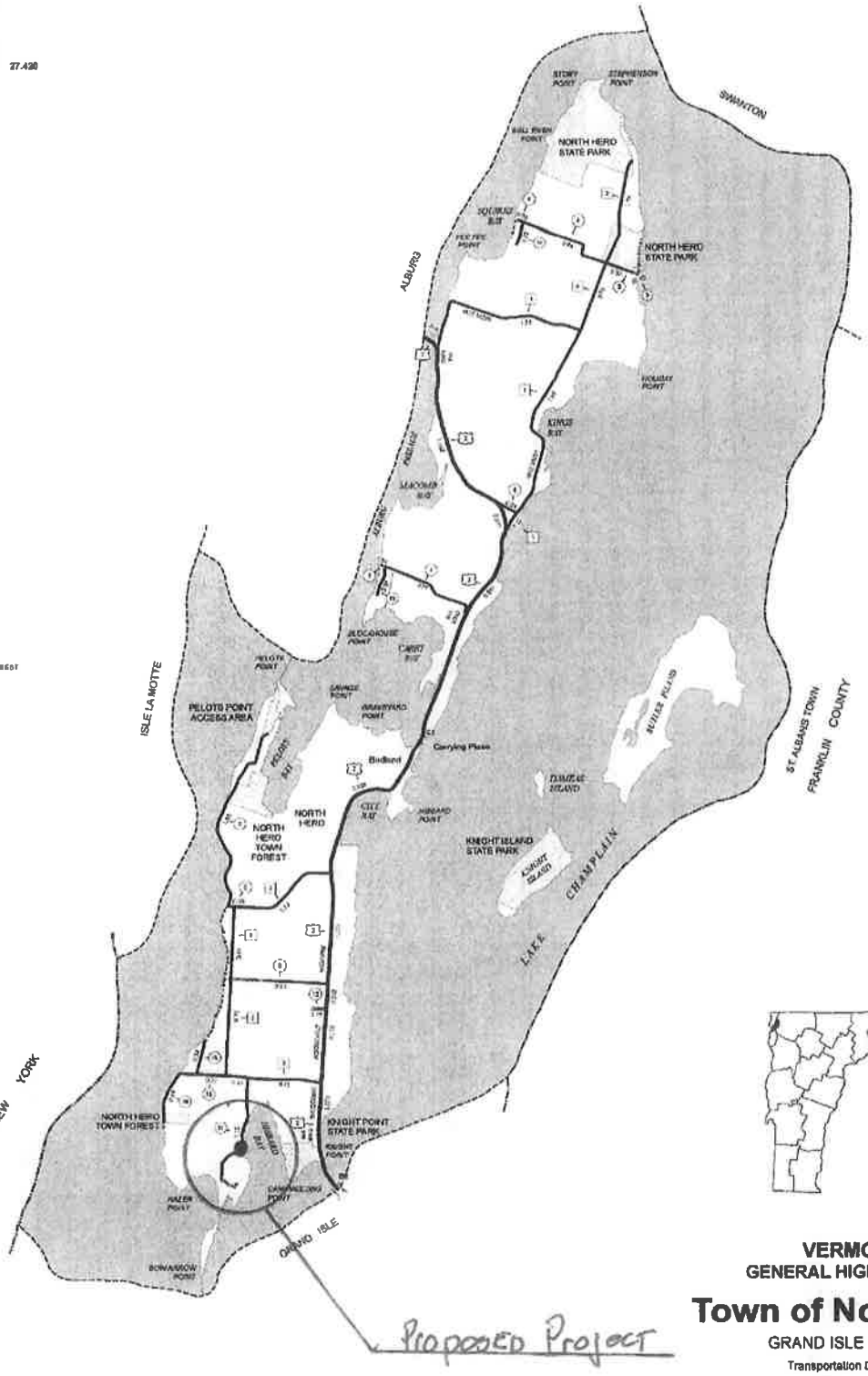
HIGHWAYS
- INTERSTATE
- U.S. ROUTE
- STATE ROUTE
- CLASS 1
- CLASS 2
- CLASS 3
- CLASS 4
- LEGAL TRAIL
- GRAVEL
- POOR GRADED AND DRAINED EARTH
- UNIMPROVED OR PRIMITIVE
- IMPASSABLE OR UNTRAVELLED
- LEGAL TRAIL
- DISCONTINUED
- HIGHWAY CLASS CHANGE
- RAILROAD
- INACTIVE RAILROAD
- PUBLIC LAND - GREEN MOUNTAIN NATIONAL FOREST
- PUBLIC LAND - STATE/MUNICIPAL

POLITICAL SUBDIVISIONS
- STATE BOUNDARY
- COUNTY BOUNDARY
- TOWN BOUNDARY
- VILLAGE BOUNDARY
- URBAN COMPACT BOUNDARY
- WATER BODY
- STREAM OR RIVER

BRIDGE OR CULVERT
- BRIDGE OR CULVERT > 20'
- BRIDGE OR CULVERT 8 - 20'
- VOBCIT BRIDGE
- VOBCIT CULVERT > 8'

SBI / CBI STATE BRIDGE OR CULVERT IDENTIFIER
BHI / CBI TOWN BRIDGE OR CULVERT IDENTIFIER
NFR NATIONAL FOREST ROAD
SFH STATE FOREST HIGHWAY
P PARK AND RIDE

FEDERAL CLASSIFICATION IDENTIFIER
- FAU URBAN ARTERIAL OR COLLECTOR
- MA MINOR ARTERIAL
- MJC MAJOR COLLECTOR
- MNC MINOR COLLECTOR
- RA RURAL ARTERIAL



VERMONT
GENERAL HIGHWAY MAP
Town of North Hero
GRAND ISLE COUNTY

Transportation District #8

Prepared by the
Vermont Agency of Transportation
Division of Policy, Planning and Intermodal Development
in cooperation with
U.S. Department of Transportation
Federal Highway Administration

Mileage as of February 10, 2016
Map prepared June 10, 2016

SCALE 1:31,680

0.5 0 0.5 1 1.5 2
Miles
0.5 0 0.5 1 1.5 2
Kilometers

DISCLAIMER
The inferred rail highways (Legal and town highways), discontinued highways, and unpublishable trailways are those of which the Agency of Transportation has record, others may exist.

Highway and bridge data by the Agency of Transportation. Town short structures are drawn from the Vermont Online Bridge & Culvert Inventory Tool (VOBCIT) database. All other data from the Vermont Center for Geographic Information. Only named streams are shown.

Vermont State Plane Coordinate System
North American Datum of 1983
SPCS_Zone_vermont 4400
Geodetic Reference System 80
1,000-meter grid: Easting - northing

This map was funded in part through grants from the Federal Highway Administration, U.S. Department of Transportation. The representation of the routes expressed herein do not necessarily state or reflect those of the U.S. Department of Transportation.
For more information contact: Vermont Agency of Transportation, Division of Policy, Planning & Intermodal Development - Mapping Section, 1 National Life Drive, Montpelier, VT 05633-5001 Telephone: 802-828-2600

Google earth

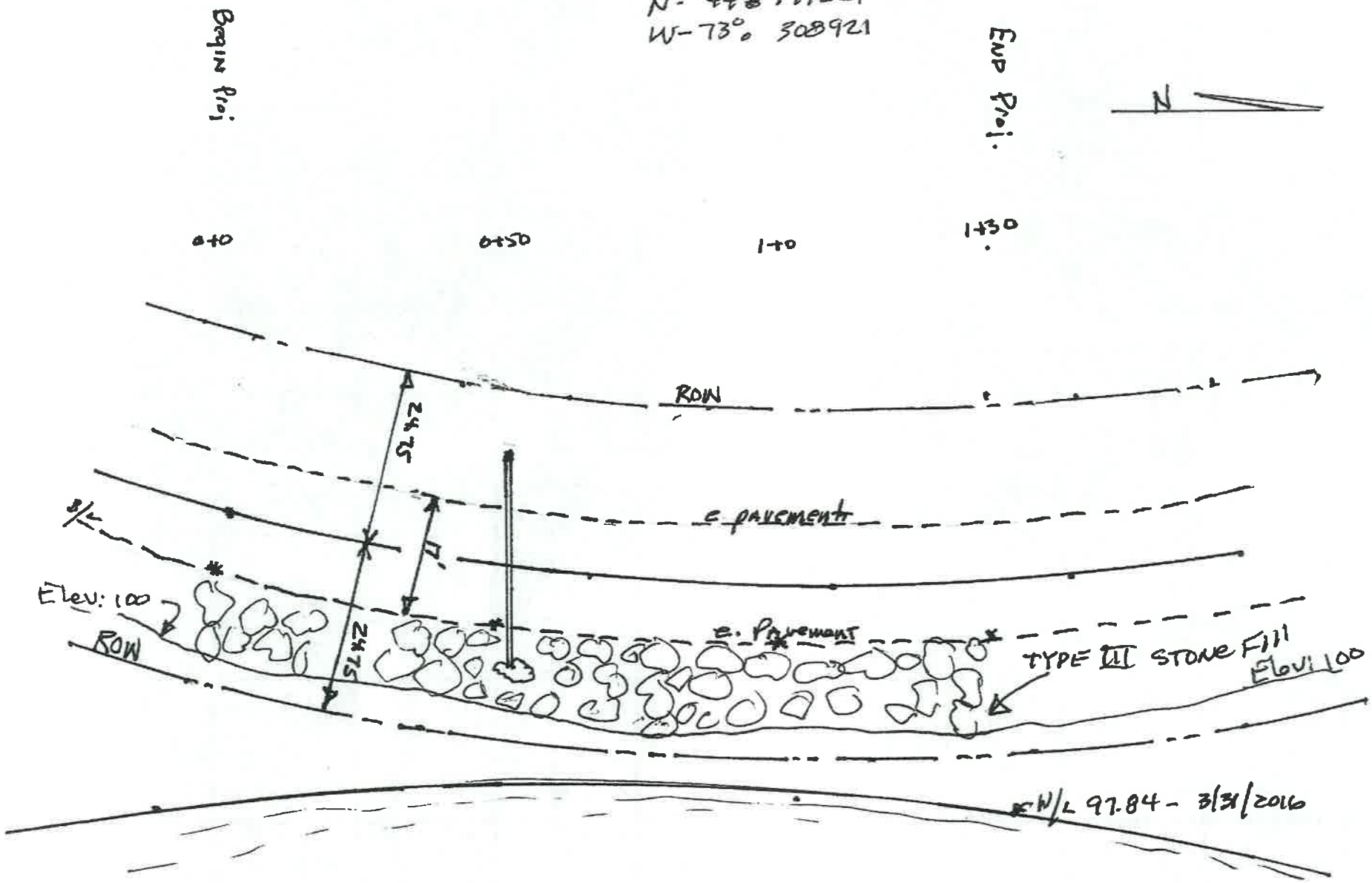
feet 1000
meters 300

Location: N-44°.771221
W-73°.308921

Google earth

miles 2
km 3

LOCATION
N- 44°.771221
W- 73°. 308921



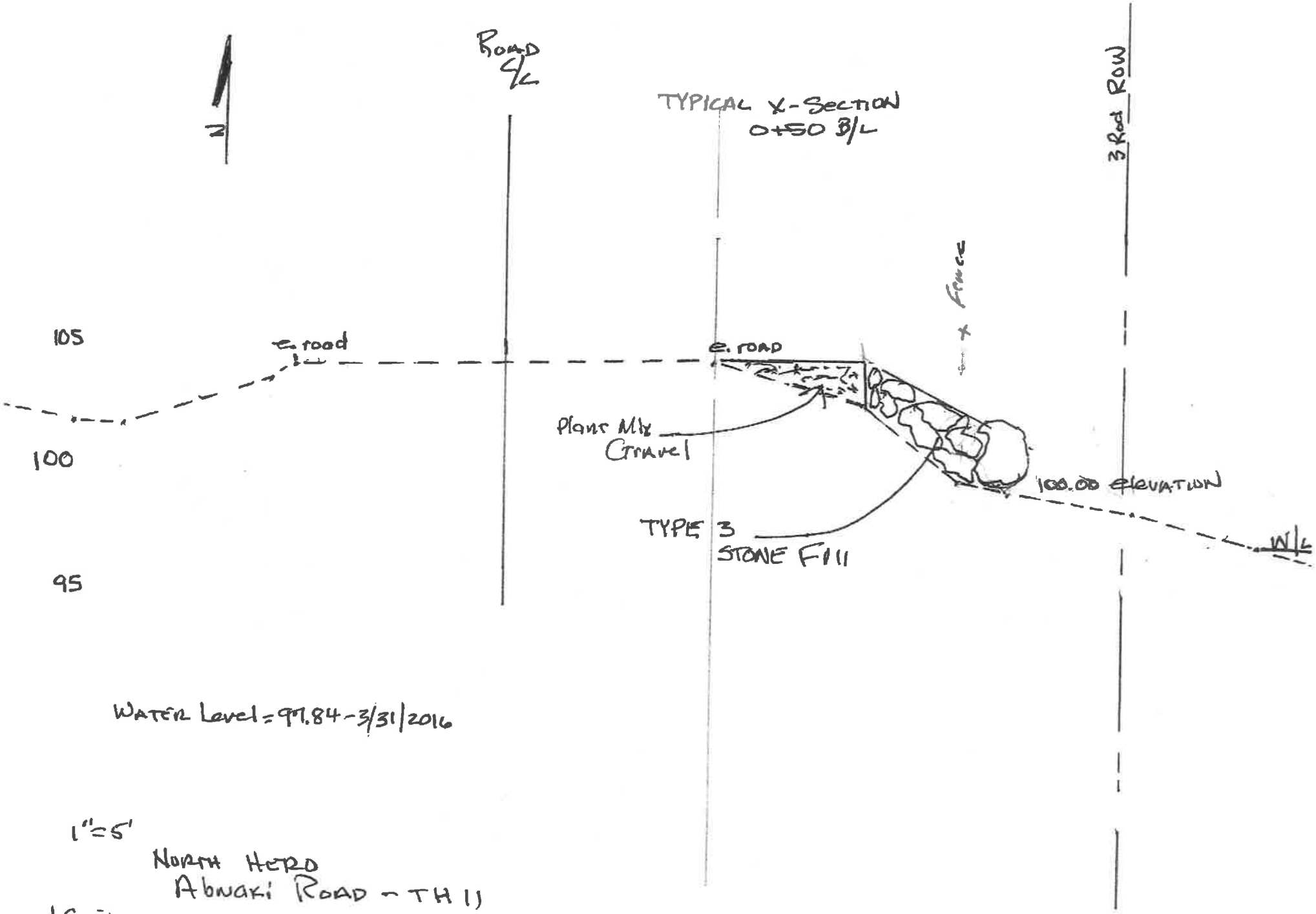
Scale 1" = 25'

LAKE CHAMPLAIN

NORTH HERO
ABNAKI ROAD TH-11

J. SMITH - SMITH TECHNICAL SERVICES
4-2-2016

Pg. 1.



WATER Level = 97.84 - 3/31/2016

1" = 5'

NORTH HERD
Abnaki ROAD - TH 11

J. Smith - SMITH TECHNICAL SERVICES 4/2/16

North Hero – Abbnaki Rd – TH 11