Better Roads
Clean Water You Can Afford

VTrans
VERMONT
AGENCY OF NATURAL RESOURCES

FY17 Vermont Better Roads Grant Application

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

Town/Organization: Town of Poultney Contact Person(s): Dan Rosenthal

Address: 9 Main St. Suite1 Poultney, VT 05764
Street Address *Town* *Zip*

Email: poultneymanager@comcast.net Phone: (802) 287 - 9751

DUNS #: 035414167 Fiscal Year End Month (MM): June

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

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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 Poultney

Project Name: Culvert Replacement and Stone line ditch on Finel Hollow

Road Name: Finel Hollow Rd TH #: 9 Structure # (if applicable): _____

Road Type: Paved or (Unpaved) (circle one) Curbed or Uncurbed (circle one)

Class 1 Class 2 (Class 3) Class 4 (circle one)

Watershed: Poultney Mettowee

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

Undersized 15" culvert causing erosion and washouts into Finel Hollow Brook

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):

Upgrade to "18" culvert - 50 ft. long
Build road up 3ft approximately 250 ft in length using 500 yards of blasted crushed rock for base, 300 yard. gravel subbase and 300 yards for surface gravel. Stone line ditch with 350 cy yards. of crushed Rock. use 200 Sy yards of Fabric for Stabilization

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

will stop erosion of the directly into the stream

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Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). Please circle one: 0-50' (50-250') 250'+

Progress to Date: planning

Is there an emergency reason this project must be completed quickly? If yes, please explain:
No, would like to complete this project by the end of the Summer

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: Culvert inventory 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.):
Todd Eaton, AOT
Joshua Carvagal, ANR
Hilary Solomon, Poultney Mettowee Natural Resource Conservation District

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).
Yes

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Describe how the grant funds will be spent and/or attach a project budget:
Purchase culvert pipe
Road Materials

How do you plan to meet the required 20% match on this grant?:
Equipment
Labor and Some materials

Requested Grant Amount ($20,000 max Category B, $40,000 max Categories C & D): $40,000
Estimated Total Project Cost (including 20% local match): $ 19,643
Estimated Completion Date: September

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:
  - [ ] Distances (ft.)
  - [ ] Estimate of waste & borrow quantities
  - [ ] Approx. location of town/other right-of-way and/or property lines
- [x] Photo(s) of the project area.
- [x] Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- [x] If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer. Letter from Josh Carvajal from ANR
- [ ] 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] Title: Paul Frey Town Manager

Cost Estimate Worksheet

Town and Road Name:

Project Name:

Labor	Rate	# Hours	Total (Rate x Hours)
Ron Kelley	$ 19.89	40	$ 796
Richard Ferguson	$ 14.85	40	594
Matt Sears	$ 14.06	40	562
Ray Petty	$ 14.00	40	560
Tom Beahy	$ 16.40	40	656
		40	
		Labor Total	3,168

Equipment	Rate	# Hours	Total (Rate x Hours)
International 7600 14 yrd	$ 65	35	$ 2,275
Excavator (75 HP) Cat.	$ 39	35	1,365
John Deer Backhoe ½ yrd	$ 23.50	15	352.50
Ford 550	$ 20.00	5	100.00
International 2574 Model 300 9 yrd	$ 45.00		
International 7600 9 yrd	$ 45.00	35	1,575
Western Star Tandum 14 yrd	$ 65.00	35	2,275
		Equipment Total	7,942.50

Materials	Rate	Amount	Total (Rate x Amount)
See Form attached			
		Materials Total	$44,532.50

Miscellaneous	Rate	Amount	Total (Rate x Hours)
Jays will provide 750 yrds of blasted crushed Rock @ $ 4,000			
		Miscellaneous Total	$ 4,000.00
		Grand Total	$ 59,643.00
		Match	14,643.00

water
Snacks

VLR/ Town Project Repair Estimate

Report No.
Inspection Date

LOCATION OF PROJECT: Finel Hollow & Highland Gray Rd **Route #** TH # 9

DESCRIPTION OF DAMAGE: Erosion is going into Finel Hollow Brook from the road

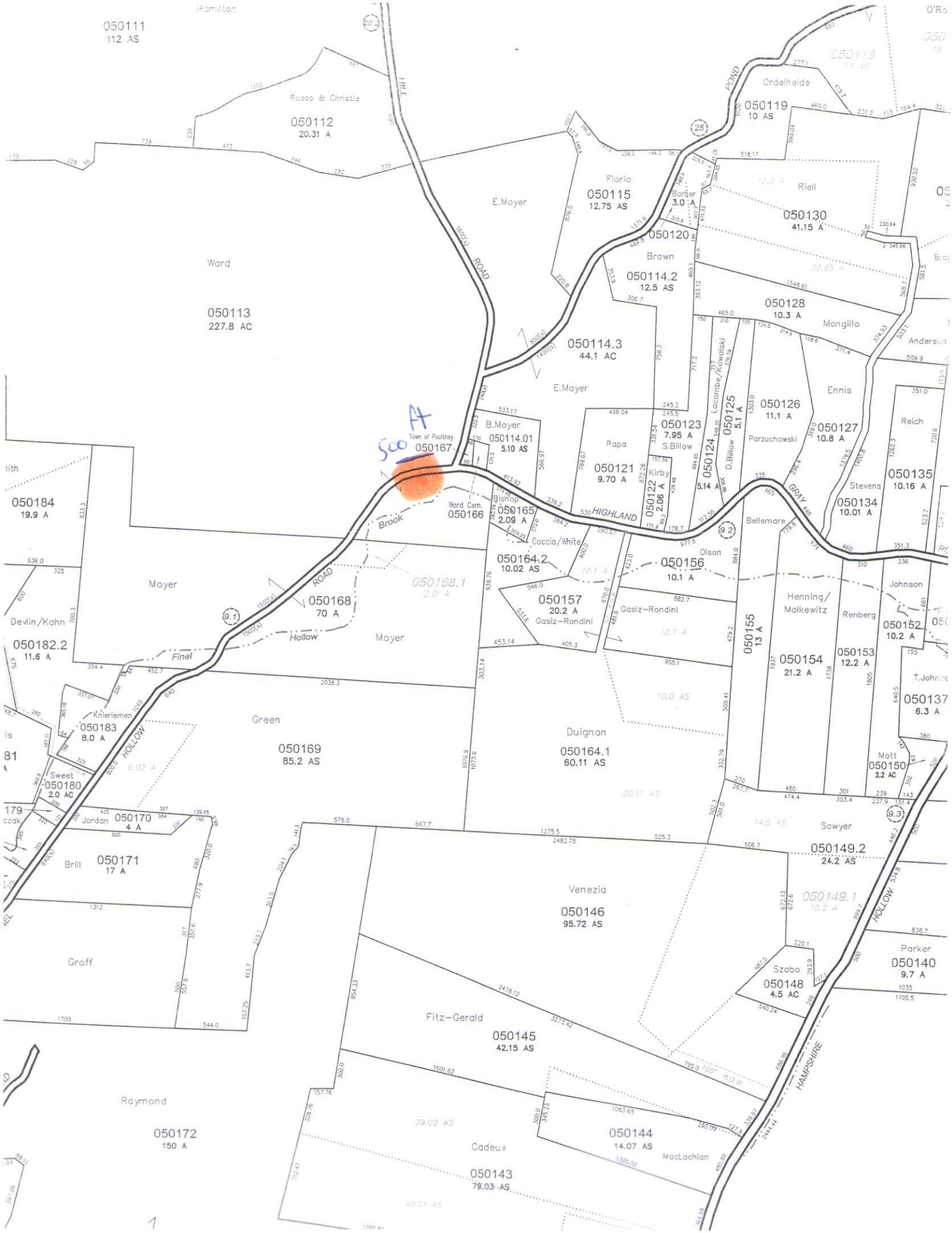
DESCRIPTION OF REPAIR: Replace undersized rusted 15" culvert with 18" plastic, rasie the road bed and stone ditches

PREPARED BY: Todd Eaton

COST ESTIMATE

Pay Item	Unit	Description of work	Quantity	Unit Price	Cost
201.15	EACH	REMOVING MEDIUM TREES		$456.43	$0.00
201.16	EACH	REMOVING LARGE TREES		$2,500.00	$0.00
203.15	CY	COMMON EXCAVATION	15	$10.71	$160.65
203.16	CY	SOLID ROCK EXCAVATION		$83.58	$0.00
204.20	CY	TRENCH EXCAVATION OF EARTH		$14.43	$0.00
204.21	CY	TRENCH EXCAVATION OF ROCK		$172.88	$0.00
301.15	CY	SUBBASE OF GRAVEL	300	$38.41	$11,523.00
401.10	CY	AGGREGATE SURFACE COURSE	300	$47.12	$14,136.00
402.1	CY	AGGREGATE SHOULDERS, IN PLACE		$62.75	$0.00
404.65	CWT	EMULSIFIED ASPHALT		$63.96	$0.00
406.25	TON	BITUMINOUS CONCRETE PAVEMENT		$111.87	$0.00
601.0015	LF	18" CSP (CORRUGATED STEEL PIPE)		$166.10	$0.00
601.0025	LF	24" CSP (CORRUGATED STEEL PIPE)		$88.45	$0.00
601.2615	LF	18" CPEP (CORRUGATED POLY PIPE, SMOOTH LINED)	50	$61.59	$3,079.50
601.262	LF	24" CPEP (CORRUGATED POLY PIPE, SMOOTH LINED)		$75.26	$0.00
601.995	LF	CLEANING CULVERT, IN PLACE [0-24"]		$26.41	$0.00
608.1	HR	BULLDOZER RENTAL, TYPE I		$33.10	$0.00
608.25	HR	ALL PURPOSE EXCAVATOR RENTAL		$83.00	$0.00
608.37	HR	TRUCK RENTAL		$64.38	$0.00
608.4	HR	LOADER RENTAL		$31.98	$0.00
613.10	CY	STONE FILL, TYPE I (3"-12")	350	$43.80	$15,330.00
613.11	CY	STONE FILL, TYPE II (3"-24")		$42.26	$0.00
630.10	HR	UNIFORMED TRAFFIC OFFICER		$53.61	$0.00
630.15	HR	FLAGGERS		$23.33	$0.00
649.31	SY	GEOTEXTILE UNDER STONE FILL	200	$2.32	$464.00
651.15	LB	SEED		$8.46	$0.00
651.18	LB	FERTILIZER		$4.37	$0.00
651.25	TON	HAY MULCH		$713.79	$0.00
653.2	SY	TEMPORARY EROSION MATTING		$2.45	$0.00
					$0.00
					$0.00
			SubTotal		$44,532.50

Town will provide 750 yards of blasted crushed rock for base at a cost of $ 4000


050111
112 AS
Hamilton
Russo & Christie
050112
20.31 A
Ward
050113
227.8 AC
E.Moyer
Florio
050115
12.75 AS
Barber
3.0 A
050120
Brown
050114.2
12.5 AS
050114.3
44.1 AC
E.Moyer
B.Moyer
050114.01
5.10 AS
Town of Poultney
050167
Ward Cem.
050166
Bishop
050165
2.09 A
Coccia/White
050164.2
10.02 AS
Papa
050121
9.70 A
050122
2.06 A
Kirby
050123
7.95 A
S.Billow
050124
5.14 A
D.Billow
050125
5.1 A
Lacombe/Kowalski
050126
11.1 A
Parzuchowski
050127
10.8 A
Ennis
050128
10.3 A
Mongillo
Anderson
Riell
050130
41.15 A
Ordelheide
050119
10 AS
Olson
050156
10.1 A
Bellemare
Stevens
050134
10.01 A
050135
10.16 A
Reich
Johnson
Henning/
Malkewitz
050154
21.2 A
050155
13 A
Renberg
050153
12.2 A
050152
10.2 A
Mott
050150
2.2 AC
T.Johnson
050137
6.3 A
Sawyer
050149.2
24.2 AS
050149.1
10.2 A
Parker
050140
9.7 A
Szabo
050148
4.5 AC
Gasiz-Rondini
050157
20.2 A
Gasiz-Rondini
050164.1
60.11 AS
Duignan
050169
85.2 AS
Green
050168
70 A
Moyer
050168.1
2.0 A
Moyer
050184
19.9 A
Devlin/Kahn
050182.2
11.6 A
Knieriemen
050183
8.0 A
Sweet
050180
2.0 AC
Jordan
050170
4 A
Brill
050171
17 A
Groff
Raymond
050172
150 A
Venezia
050146
95.72 AS
Fitz-Gerald
050145
42.15 AS
Cadeux
050143
79.03 AS
MacLachlan
050144
14.07 AS
HILL ROAD
POND ROAD
HIGHLAND
GRAY
HOLLOW
HOLLOW
Brook
Finel
Hollow
HAMPSHIRE
100' R.O.W.
A
500

Jonas Rosenthal

From: Ron Kelley [farmer.ron53@hotmail.com]
Sent: Monday, March 28, 2016 8:28 AM
To: Jonas Rosenthall
Subject: FW: Poultney_Watkins Hill Road
Attachments: Poultney_Atlas Map.pdf

> From: Joshua.Carvajal@vermont.gov
> To: Todd.Eaton@vermont.gov
> CC: farmer.ron53@hotmail.com
> Subject: Re: Poultney_Watkins Hill Road
> Date: Sat, 26 Mar 2016 17:49:53 +0000
>
> Ron,
>
> Thanks for meeting with me to discuss this project.
>
> This culvert replacement project is not jurisdiction under the Stream Alteration General Permit since the pipe does not convey a perennial stream.
>
> The attached Atlas map shows the location of the culvert, I'd suggest upsizing the structure from its current size when the road is raised since it will need to convey additional runoff.
>
> Let me know if you have any questions.
>
> **********
> Josh Carvajal, P.E. CFM
> Rivers Program
> Agency of Natural Resources
> Department of Environmental Conservation
>
> cell: (802) 490-6163
>

VERMONT

Poultney_Watkins Hill Rd culvert

Vermont Agency of Natural Resources

vermont.gov

LEGEND

- DFIRM Floodways
- DFIRM Preliminary Floodways
- Special Flood Hazard Areas (A Counties)
  - AE (1-percent annual chance flood
  - A (1-percent annual chance floodpl
  - AO (1-percent annual chance zone feet)
  - 0.2-percent annual chance flood ha
- Special Flood Hazard Areas (F DFIRM)
  - AE (1-percent annual chance flood
  - A (1-percent annual chance floodpl
  - AO (1-percent annual chance zone feet)
  - 0.2-percent annual chance flood ha
- Buildings (E911)
- VTRANS State and Town Long
- VTRANS State Short Structure
- Town Bridge
- Town Culvert
- Stream
- Parcels (where available)
- Town Boundary

NOTES

Map created using ANR's Natural Resources Atlas

111.0 0 56.00 111.0 Meters

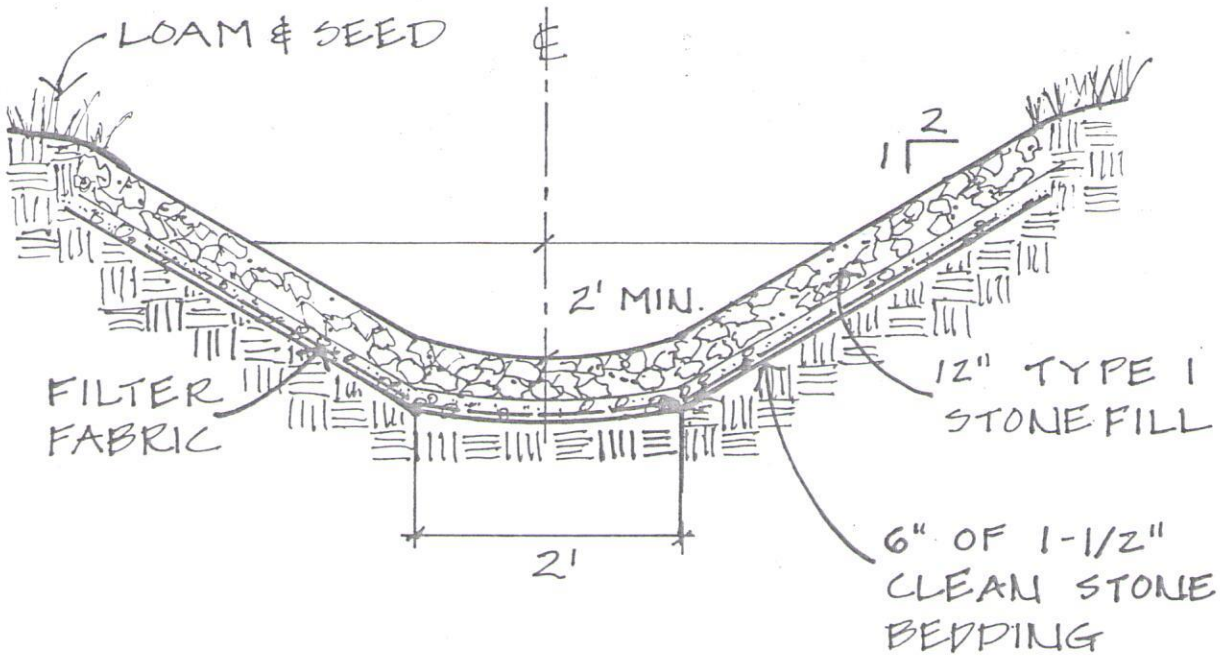
WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 182 Ft. 1cm = 22 Meters

© Vermont Agency of Natural Resources

THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

- size ditches so they are large enough to handle runoff from the drainage area
- the preferred equipment for creating ditches is a rubber-tired excavator with an articulated bucket
- line ditches which have a less than 5% slope with grass in order to filter sediments
- line ditches which have a greater than 5% slope with riprap
- line ditches as soon as possible to prevent erosion and to maintain the ditch profile
- all ditches need an outlet; standing water weakens roads



DETAIL - STONE LINED DITCH

Jonas Rosenthal

From: Ron Kelley [farmer.ron53@hotmail.com]
Sent: Thursday, April 14, 2016 9:41 AM
To: Jonas Rosenthal
Subject: Fwd: Grant

Sent from my iPhone

Begin forwarded message:

> **From:** "Eaton, Todd" <Todd.Eaton@vermont.gov>
> **Date:** April 14, 2016 at 9:01:11 AM EDT
> **To:** Ron Kelley <farmer.ron53@hotmail.com>
> **Subject: Re: Grant**
>
> To Whom it may concern,
>
> Please accept this as my letter of support for the effort the Town of Poultney is putting forth in the attached projects to eliminate any erosion due to failing and inadequate culvert structures and unstable stream banks. In offering consultation, it is apparent to me that Poultney is proactive in utilizing any and all BMP's, as described in the BBR Manuel, applicable to these situations.
>
> I look forward to continuing the process with Poultney and will continue to assist as necessary.
>
> **Thanks!**
>
> **Todd Eaton**
> **(802)353-0110**
>
> *"A good character is the best tombstone. Those who loved you and were helped by you will remember you when forget-me-nots have withered. Carve your name on hearts, not on marble." Charles Spurgeon*

POULTNEY METTOWEE NATURAL RESOURCES CONSERVATION DISTRICT
PO BOX 209, POULTNEY, VT 05757; OFFICE: (802) 287-8339; PMNRCD@GMAIL.COM; WWW.PMNRCD.ORG

April 13, 2016

Better Roads Grant Committee
Vermont Department of Transportation

To Whom It May Concern,

Poultney Mettowee Natural Resource Conservation District (PMNRCD) is pleased to support the Town of Poultney's pursuit of a Better Roads Grant. The project areas on Finnel Hollow Road and River Street were identified as high-priority by the Poultney Mettowee Conservation District during a 2012 Stormwater at the Source road survey. The District used a methodology similar to the White River Partnership's Fourth Class Road Survey, and identified sources of road erosion and sediment inputs to streams in high slope areas or other locations identified as vulnerable to sediment inputs.

The Finnel Hollow and River Street culverts that the Town of Poultney is seeking to replace are both undersized and have significant road erosion and sediment inputs from road surface gravels draining to the perennial streams as they are conveyed under the road.

The District helps run the Champlain Valley Native Plant Nursery and is willing to plant native trees and shrubs to help stabilize and restore the streambanks, once work is completed at these sites.

Please feel free to contact me with any questions.

Sincerely,

Hilary Solomon, District Manager
Poultney Mettowee Natural Resource Conservation District