

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 Townshend

Project Name: Plumb Hill Clay Slide

Road Name: Plumb Hill Rd TH #: 32 Structure # (if applicable): _____

Road Type: Unpaved Please Select
 Class 3

Watershed: _____

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

The roadway has a steep bank of clay that keeps sliding into the road and ditch. The clay from the slide goes into a culvert crossing the road and entering a brook. This brook is a tributary to the West River.

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):

We would like to key in 3-4' riprap for a length of 140'x4-5' high. Above this riprap we would place 1-2' rocks up the bank for 6-8'. At the end of the wall we would stone line a ditch for 12' to the culvert.

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

This will stabilize the bank and keep the gray erosion from going into the West River.



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

Progress to Date:

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

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, VTTrans District Technical staff, Basin Planner etc.):
VTTrans District Technical staff.

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).
The road crew will do all the work except for the trucking of the 36" riprap



Describe how the grant funds will be spent and/or attach a project budget:
All grant funds will be applied to the material for the project.

How do you plan to meet the required 20% match on this grant?:
The town will provide all labor and equipment to this project.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 7,883.00
Estimated Total Project Cost (including 20% local match): \$ 14,263.00
Estimated Completion Date: 09/30/2016

REQUIRED ATTACHMENTS:

- Itemized Cost Estimate (labor, equipment, materials)
(For assistance, call Better Backroads at 802-828-4585)
- Project Location Map
(Please show location of affected water; 1:12,000 USGS map, if possible)
- 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
- 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: *Jonathan J. Hoge*

Title: *April 27, 2016*

Landowner
Removing trees

Undercut
From slide

Plumb Hill Rd
Clay Slide
Town of Townshend

New
Pole

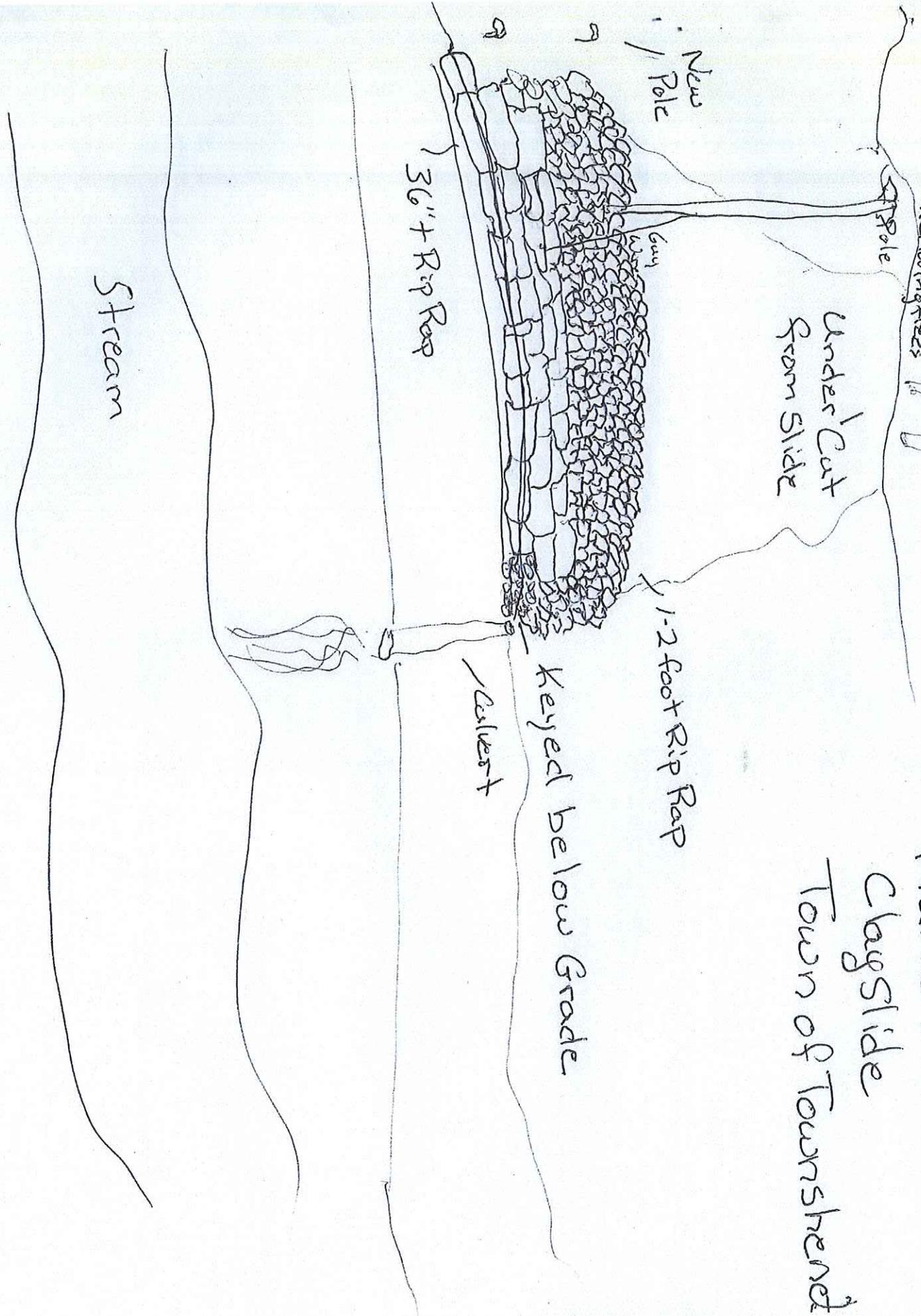
1-2 foot Rip Rap

Keyed below Grade

36" Rip Rap

Colwest

Stream





State of Vermont
Operations Division
870 US RT 5
Dummerston, VT 05301
www.aot.state.vt.us

[phone] 802-254-5011
[fax] 802-251-2000
[ttd] 800-253-0191

Agency of Transportation

Kurt Bostrom
Town of Townshend
P.O. Box 223
Townshend, VT 05353

April 12, 2016

To whom it may concern,

I visited a proposed Vermont Better Road Grant site on Plumb Road with Kurt Bostrom on April 12, 2016. Material from a failing bank is continuously filling in a ditch, being washed into a culvert adjacent to the slide where it is then discharged directly into a tributary to the West River. The bank failure poses a threat to the traveling public and is a constant source of sediment loading into the stream.

A similar bank failure occurred around seven years ago at a location further up the road. The Town installed stone riprap along the bank which has successfully prevented further bank failure. The Town would like to use the same design to address the bank failure at the new location. I would recommend this project for a Vermont Better Road Grant, Category C.

Sincerely,

Meghan Brunk
VTrans D2 Tech VI
(802) 251-2004



