



Received

APR 14 2016

VTrans
PDD-LTF



FY17 Vermont Better Roads Grant Application

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

Town/Organization: Concord Contact Person(s): Susan LaMadeleine

Address: PO Box 317 Concord, Vermont, 05824

Email: adminasst@conclerk.com

1-802-695-1094, ex: 21

DUNS #: 804446219

Fiscal Year End Month (MM):(June 30th- July 1st)

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: Concord

Project Name: Cross Culvert Install and Plunge Pool Road Name: Bullard Woods Road TH #:29

Road Type: Paved or **Unpaved** (circle one) Curbed or **Uncurbed** (circle one)
Class 1 Class 2 **Class 3** Class 4 (circle one)

Watershed: Moose River Watershed

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion): Bullard Woods Road ditch has an 8% slope with a wide road surface which has little to no vegetation and carries silt and sediment to close proximity of a Class 2 Wetland.

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): Bullard Woods Road will be redefined with widening of road and the ditch line. Ditch will be reshaped and lined. Headwall reconstructed.

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch): The road width will be better defined and the sediment in the ditch will be eliminated.



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: BBR category A completed and field measurement complete

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

Two horizontal lines for text entry.

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: Municipal Road Inventory

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.):

Three horizontal lines for text entry.

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further). The ROW in the culvert drainage area needs to be determined and may need drainage rights from landowner.

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further). Yes, The town road crew would like to complete this work as it was scheduled to be completed last year.



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

Project budget is attached

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

The match on both amounts will be met with in-kind and cash.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D):\$7,360

Estimated Total Project Cost (including 20% local match):\$8,832

Estimated Completion Date: Fall 2016

REQUIRED ATTACHMENTS 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: George Melrose

Title: Select Board Chairman

Site Description

Bullard Road project area has native soils of Buckland moderately well drained course-loamy till. The road is 0.35 mile ~ 8% slope class 3 road with very wide road surface that meets or in some places in within the ditch that doesn't hold much vegetation. The road section of concern from the first driveway on the left (going uphill) down ~675' to (2) cross culverts that are carrying road surface and ditch erosion sediments to close proximity to a state identified class 2 wetland.

Recommended Treatment

Measure and refine road width and ditch line. Reshape and line ditch. Install plunge pool at last culvert outlet.

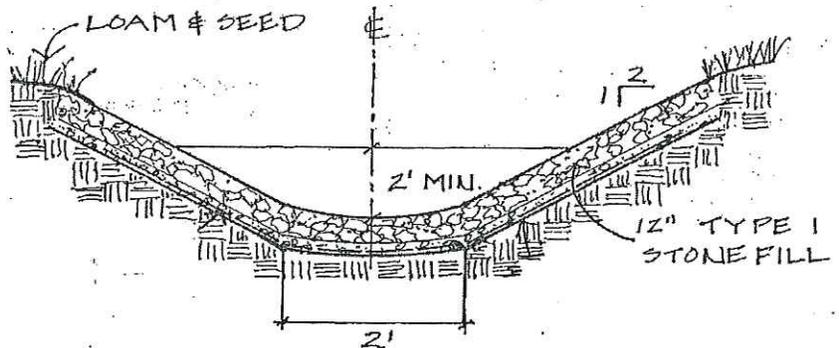
Construction Notes:

- Construction Specification guidelines for culverts, ditches and outlet structures- See the *Vermont Better Back Roads Manual*, 2009 2009 & the *Vermont Standards and Specifications for Erosion Prevention and Sediment Control* 2006 (see conceptual drawing below)
- Meet adopted *codes and standards*
- Buried Cable/Utilities- Buried cable/utilities may be on site. Call dig safe 1-888-DIG-SAFE to locate buried utilizes prior to construction.
- Stabilize all disturbed areas with seed and mulch.

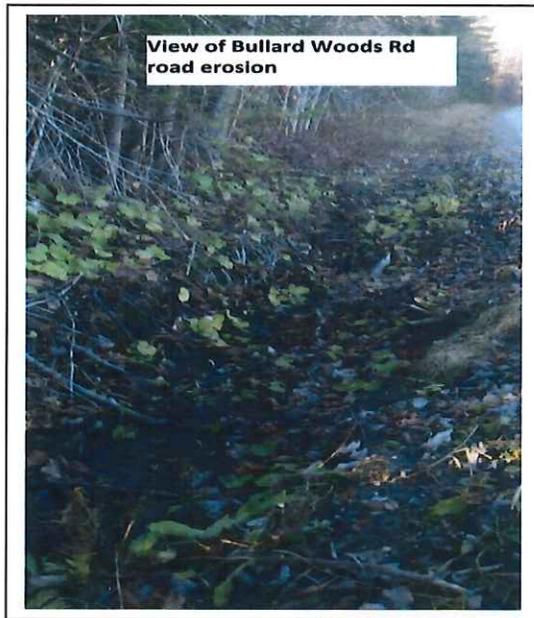
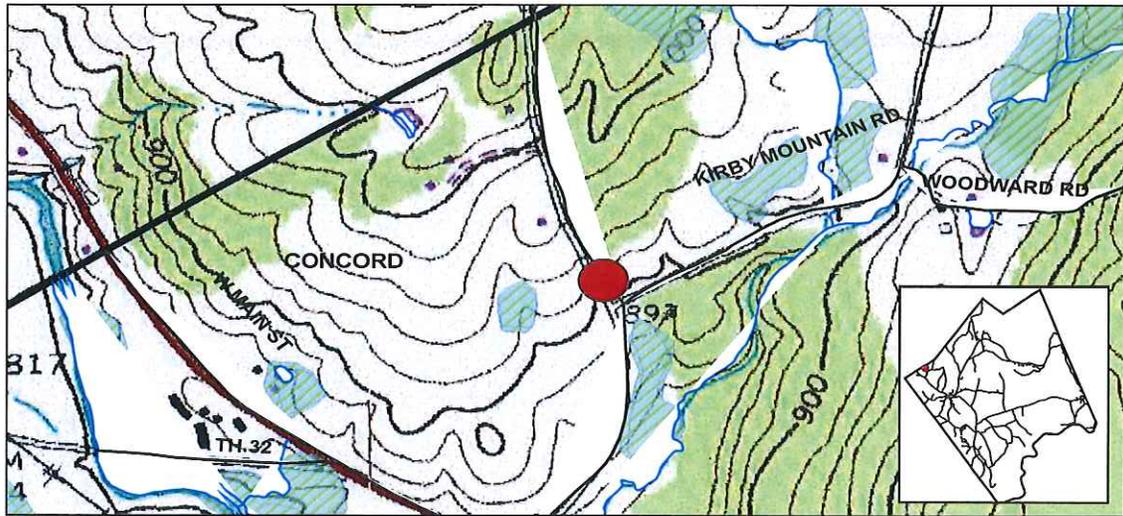
Cost Estimate for Treatment

<u>Item</u>	<u>Quantity</u>	<u>Cost per unit</u>	<u>Total</u>
Move Equipment Time	2hrs	\$100	\$200
Excavation time	20hrs	\$135	\$2,700
Truck time	40hrs	\$80	\$3,200
Ledge	105 T	\$12	\$1,260
Total			\$7,360

Conceptual Drawings of example stone ditch



STONE LINED DITCH





Vermont Better Roads Category B Grant Proposal Scoring Criteria

All categories will be scored on a sliding scale. The numbers below represent guidelines for scoring.

1. **Application is complete [maximum 5 points]**
 - Yes (5 points)
 - No (0 points)

2. **Use of Best Management Practices (BMPs) from Better Back Roads Manual, ANR Stormwater Manual, and/or Green Stormwater Infrastructure sizing tool for small sites [maximum 15 points]**
 - The proposal includes specific steps to maximize the likelihood of long-term success by applying BMPs (15 points)
 - The proposal includes an adequate number of steps to increase the likelihood of success by applying BMPs (10 points)
 - The proposal includes little or no steps to increase the likelihood of success by applying BMPs (0 points)

3. **Expected Water Quality Benefits – [maximum 25 points]**
 - Project will lead to significant reductions in sediment and/or phosphorous (25 points)
 - Project will lead to moderate reductions in sediment and/or phosphorus (15 points)
 - Project will lead to small reductions in sediment and/or phosphorus (10 points)

4. **Distance from end of project to water or direct conveyance [maximum 20 points]**
 - 0-50 ft. (20 points)
 - 50-250 ft. (10 points)
 - 250 ft. + (0 points)

5. **Project is identified through a municipal road inventory, and/or capital budget plan, tactical basin plan, culvert inventory, please include with your application [maximum 15 points]**
 - Project identified (15 points)
 - Not identified (0 points)

6. **Cost effectiveness [maximum 15 points]**
 - The cost of the project is reasonable based on the expected results (15 points)
 - The cost of the project outweighs the benefits (0 points)

7. **A river/water quality or transportation professional, or other partner is engaged in the project [maximum 10 points]**
 - Partners are identified and letters of support are included (10 points)
 - A letter of support is included (5 points)
 - No documentation of partnership exists (0 points)

8. **Selection Committee discretionary allowance [maximum 10 points]**

9. **New Towns applying to the program will receive a BONUS of [10 points]**