



2



FY17 Vermont Better Roads Grant Application

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

Town/Organization: Town of Bridgewater Contact Person(s): Randy Kennedy, Road Foreman

Address: 7335 US Route 4, Bridgewater, VT 05039

Email: rkennedy100@icloud.com Phone: (802) 672 - 3334

DUNS #: 949682413 Fiscal Year End Month (MM): 06

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, VTTrans 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 Bridgewater

Project Name: Cox District Road Bank Stabilization/Road Widening

Road Name: Cox District Road TH #: 28 Structure # (if applicable): _____

Road Type: Unpaved Uncurbed
Class 3

Watershed: Ottawaquechee Basin 10

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

Cox District Road is a class 3 gravel road which has a narrow 18 feet width. There's a section of road where it is getting eroded by a parallel stream and continues to narrow the roadway.

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):

Remove trees in the project area. Chip all brush and remove all stumps. Dig slope bank back to (but not including) stone wall. Install a stone-lined ditch using 1' minus material. Gravel road in project area with appropriate road crown. Seed and mulch all work areas. Project area is approximately 320' in length. Please see sketch sheet.

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

Erosion will be significantly reduced by reshaping the slope of the bank from the roadway as well as installing the stone lined ditch.



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

Progress to Date:

The road crew continues to repair road wash outs as they occur.

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

No

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.):
Todd Menees, ANR River Engineer

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).

No, contractor work



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

Please see attached project budget.

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

Through the highway budget.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 5,688.00

Estimated Total Project Cost (including 20% local match): \$ 7,110.00

Estimated Completion Date: 12/31/2016

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: *John P. Timberlake*

Title: *Selectman*

Cost Estimate Worksheet

Town and Road Name: Town of Bridgewater, Cox District Road

Project Name: Cox District Road Bank Stabilization

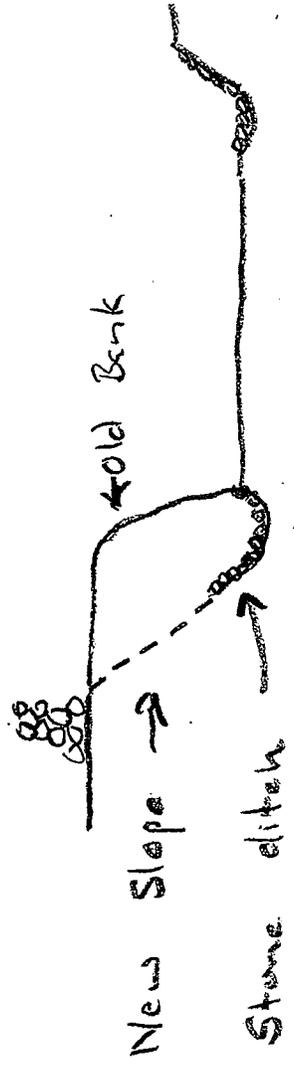
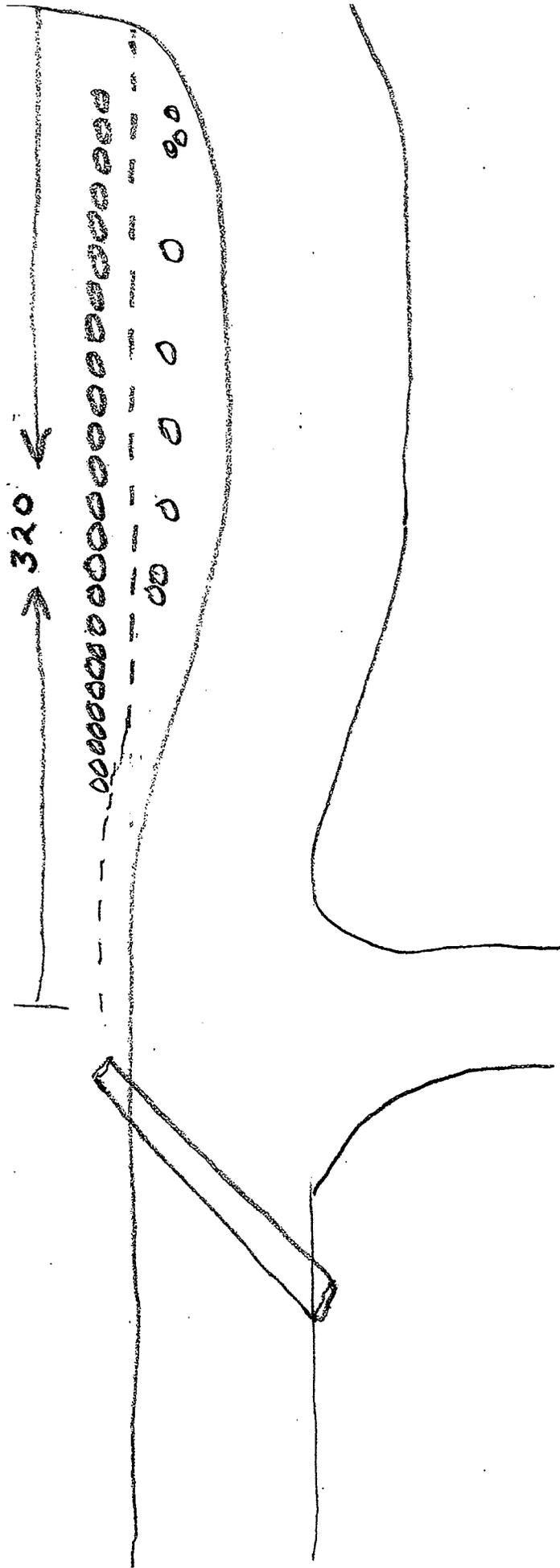


Category	Item	Rate	# Hours	Total (Rate x Hours)
Labor	laborer - tree cutting	\$25/hr	12	\$300.00
Labor Total				\$300.00
Equipment	Excavator	\$165/hr	16	\$2640.00
	Truck	\$75/hr	16	\$1200.00
	Grader/Compactor	\$125.00	4	\$500.00
	Chipper	\$125.00	8	\$1000.00
Equipment Total				\$5340.00
Materials	Ditch stone	\$14/yd	45 YDS	\$630.00
	3/4" hard pack	\$14/yd	60 yds	\$840.00
Materials Total				\$1470.00
Miscellaneous				
Miscellaneous Total				

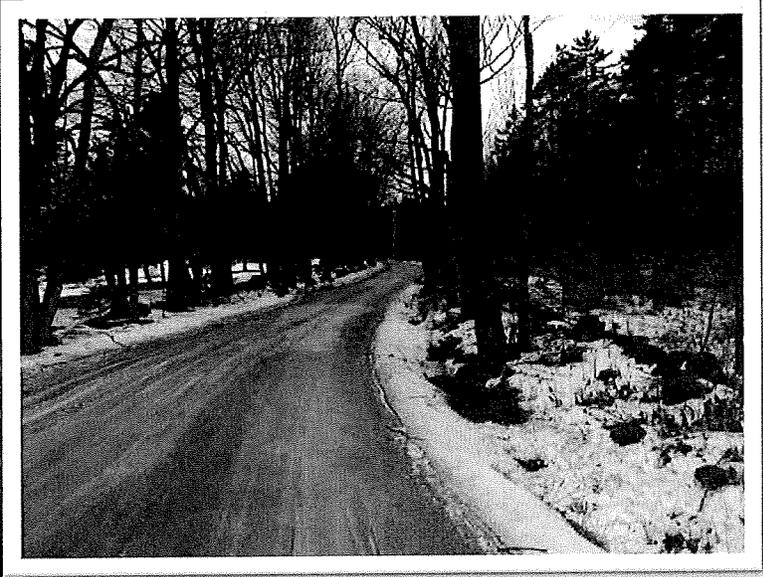
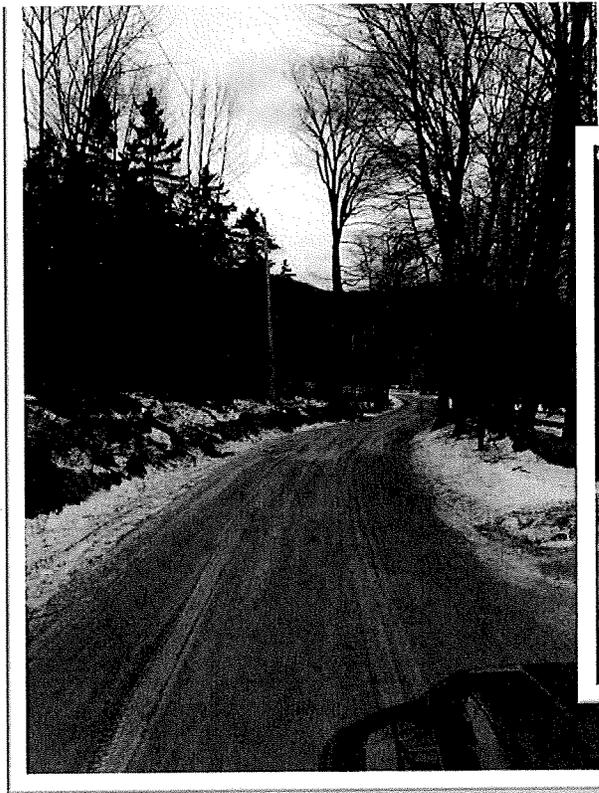
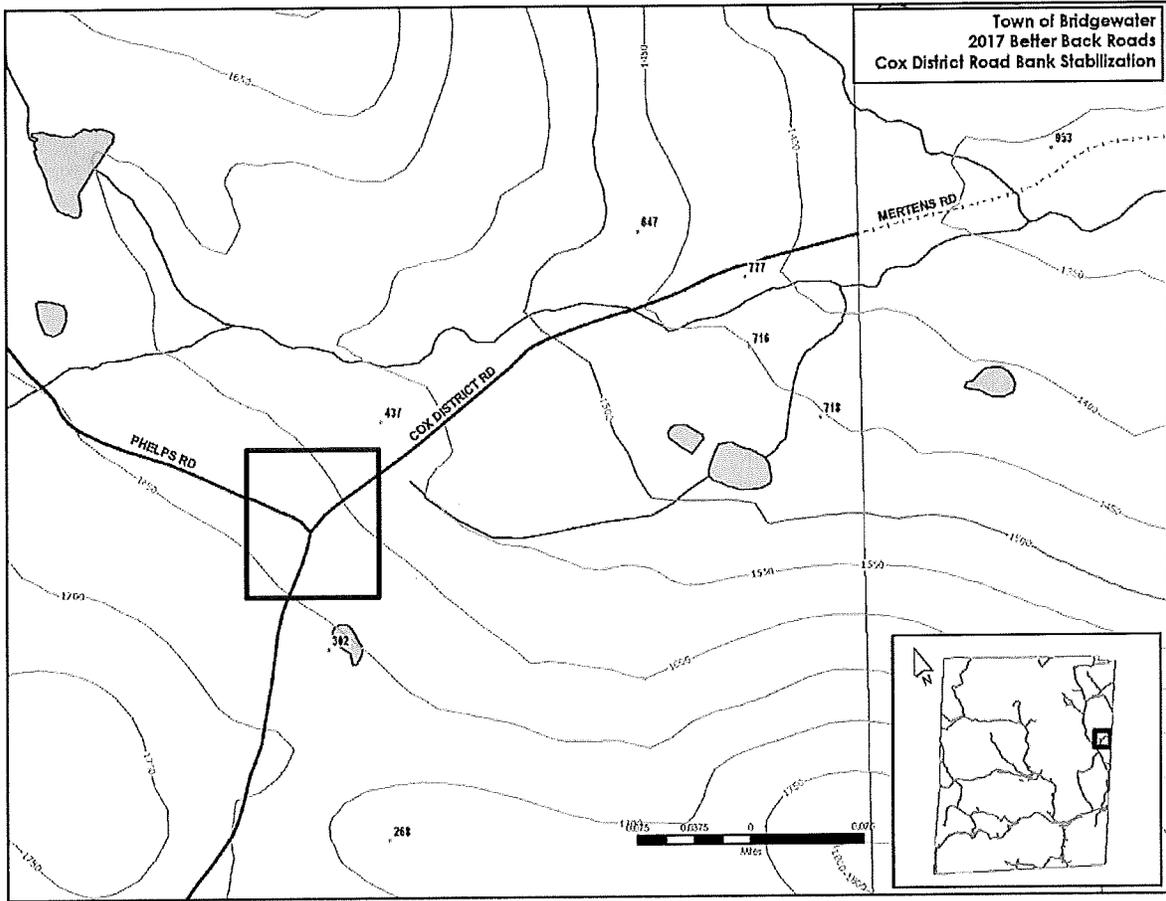
Grand Total \$7,110.00
Match \$1,422.00

Cox District
Town of Bridgewater

Not to Scale



Cox District Road | Bridgewater



Photos above show Cox District Road near intersection of Phelps Road. The roadway being on a curve is receiving erosion impacts.

Site Description

Cox District Road is a class 3 gravel road which has a narrow 18 feet width. There's a section of road where it is getting eroded by a parallel stream and continues to narrow the roadway.

Recommended Treatment

Install a 3'-4' rip rap wall, to be keyed in at bottom of stream bed, rising up 4'-6' with flat faced stones. Then rip rap the remaining slope with 2'-3' material up to road shoulder. Fix the road with gravel. Replace the culvert on Bridgewater Hill Road with an 18" x 20ft steel culvert. Seed and mulch all work areas. The project area is approximately 120' in length. Please see sketch sheet.

Permit Requirements - A VT DEC Stream Alteration Permit will not be required for this project. Todd Menees visited the site and concurred with the recommended treatment.

Construction Notes:

- Construction Specifications - See specifications in Vermont Better Backroads Manual, 2009
- Buried Cable/Utilities - Buried cable/utilities may be on site. Call Dig Safe 1-888-DIG-SAFE to locate buried utilities prior to construction
- Crown roads $\frac{1}{2}$ to $\frac{3}{4}$ inch per linear foot after project installation and maintain there after (p. 5)
- Stabilize all disturbed soils with seed and mulch (p.33)

April 6, 2016

Mr. Randy Kennedy
Town of Bridgewater
7335 US Route 4
Bridgewater, VT 05039

Dear Randy:

I am pleased to provide a letter of support for the Town of Bridgewater's application submission for a Category C Better Back Roads grant for Cox District Road bank stabilization. The proposed construction widening the roadway and stabilizing the bank will help protect the road from further streambank erosion.

Please contact me if you have any questions.

Sincerely,



Rita Seto, AICP
Senior Planner

128 King Farm Rd.
Woodstock, VT 05091
802-457-3188
trorc.org

William B. Emmons, III, Chair
Peter G. Gregory, AICP, Executive Director