FY17 Vermont Better Roads Grant Application

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

Town/Organization: Burke Contact Person(s): Linda Corey

Address: 212 School Street West Burke, VT 05871
Street Address *Town* *Zip*

Email: burke@burkevermont.org Phone: (802) 467 - 3717

DUNS #: 27548320 Fiscal Year End Month (MM): 12

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

P#1

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 Burke

Project Name: Upper Carter Road Culvert Replacement

Road Name: Carter Road **TH #:** 17 **Structure # (if applicable):** _____

Road Type: Unpaved Uncurbed

Class 4

Watershed: Passumpsic Watershed

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

The existing 36" x 30' steel corrugated culvert is misaligned and undersized, with shallow placement and little road material cover. Inlet and outlet of culvert are both eroding. Structure has potential to wash out.

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):

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

The erosion and washout potential of the structure will be corrected and the structure will be adequately sized for the stream.

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:

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: Town of Burke Road Erosion 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.):

VTrans District Technical Staff
ANR River Management Engineer
Caledonia County Natural Resources Conservation District

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

Yes, the project is in the town Right of Way

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

No, we will contract this work out but will have town equipment and road crew supporting the project installation.

Better Roads
Clean Water You Can Afford

Grant #1

VTrans
VERMONT
AGENCY OF NATURAL RESOURCES

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

Please see attached budget

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

We will provide the match for this project with a combination of in-kind or cash match.

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

Estimated Total Project Cost (including 20% local match): 18,810.00

Estimated Completion Date: 10/15/16

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)
- [ ] 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.
- [ ] 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.
- [ ] 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: Darryl Conrow Title: Selectboard Chair

Cost Estimate Worksheet

Town and Road Name: **Project Name:** Carter Road

Labor	Rate	# Hours	Total (Rate x Hours)
Town Crew	$30/hr	120	3600.00
		Labor Total	

Equipment	Rate	# Hours	Total (Rate x Hours)
Exacavator	150/hr	20	3,000.00
Truck	75/hr	20	1500.00
Pump	75/ Day	8	75.00
Compacter	75/Day	8	75.00
Grader	100/hr	8	800.00
		Equipment Total	

Materials	Rate	Amount	Total (Rate x Amount)
4 ft.x 60 ft	76.00 per ft.	4560.00	4560.00
4 ft x 40 ft	76.00 per ft	3040.00	3040.00
Bands 3	160.00 each	480.00	480.00
Gravel	12 per yd	480.00	480.00
ledge	12/cy	100	1200.00
		Materials Total	

Miscellaneous	Rate	Amount	Total (Rate x Hours)
		Miscellaneous Total	

Grand Total $18,810.00

Match $3,762.00

Town of Burke
Upper Carter Road Culvert Replacement: Site Photos

Culvert outlet

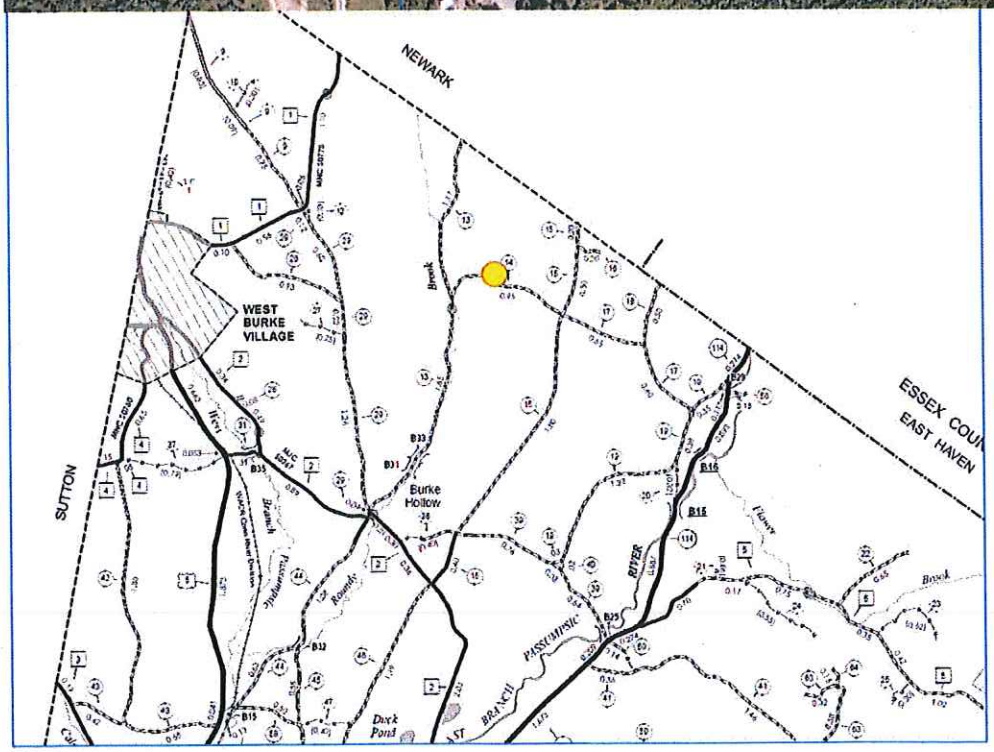
Culvert outlet

Culvert inlet

Town of Burke

Upper Carter Road Culvert: Project Location

Tributary to Roundy Brook in Passumpsic Watershed



Caledonia County
NATURAL RESOURCES CONSERVATION DISTRICT

481 Summer Street, Suite 202 St. Johnsbury, VT 05819 802.748.3885 x110
www.caledoniadistrict.org kerry.obrien@vt.nacdnet.net fax: 855.794.3675

Technical Assistance for Landowners and Municipalities

Vermont Better Roads Program
Agency of Transportation
Municipal Assistance Bureau
1 National Life Drive
Montpelier, VT 05633

RE: Town of Burke Applications to Better Roads Program

To Whom It May Concern:

I am writing to support the applications submitted by the Town of Burke to the Better Roads program. The town is submitting two proposals – a Category B for an erosion control project on Pinkham Road at the Dishmill Brook Crossing, and a Category D for a culvert replacement on Carter Road. We fully support both of these proposals.

Pinkham Road project area is a high priority identified in the town's Road Erosion Inventory and Capital Budget Plan, which was completed in 2015. Additionally, this project area was also noted in the Dishmill Brook Stormwater Master Plan, completed in March 2016. The State's Water Quality Assessment Report flagged Dishmill Brook as stressed due to hydrologic scour and sedimentation from development and roads, and noted aquatic habitat degradation from a high sand bedload. Pinkham Road is very steep in the project area, and erosion and sedimentation is prevalent. Funding support for this project will help the town of Burke apply more long term corrective measures, upgrade drainage culverts, and help stabilize the road segment.

The second project involves the replacement of an undersized culvert on Carter Road. This project was also included in the town's Road Erosion Inventory as a priority. The current structure is misaligned, undersized, lacks inadequate cover, and is not buried deeply enough in the channel. The culvert is at risk of failing and washing out. Replacing this structure is a priority for the town.

We hope you will consider both of these projects for funding. Please let me know if you have any additional questions about the projects.

Thank you.
Best,

Kerry O'Brien, District Manager

CALEDONIA COUNTY NRCD BOARD OF SUPERVISORS

MICHELLE GREEN	DAVID MCMATH	CHRIS LAGGIS	ALICE ALLEN	LARRY HAMEL
Chair	*Vice-Chair*	*Treasurer*	*Supervisor*	*Supervisor*

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Chair	*Vice-Chair*	*Treasurer*	*Supervisor*	*Supervisor*

Cathi Feeley

From: William Ware <willware10@gmail.com>
Sent: Friday, April 15, 2016 2:23 PM
To: Priscilla
Subject: Fwd: Town of Burke

Sent from my iPhone

Begin forwarded message:

From: "Ross, Patrick" <Patrick.Ross@vermont.gov>
Date: April 15, 2016 at 12:41:03 PM EDT
To: William Ware <willware10@gmail.com>
Subject: RE: Town of Burke

William,

Per our conversations, I am aware of your projects but have not had a chance to review the sites. The projects sound like they would qualify for the VT Stream Alteration General Permit. We will need to assess the streams in the field and size any new culverts to meet VTrans and VTANR sizing criteria. Please use this short note in your Better Roads Grant as confirmation that we are collaborating.

Give me a call or email early next week and we can review the sites in the field.

Regards,

Patrick Ross, P.E.
Patrick.Ross@Vermont.Gov
1229 Portland Street
St. Johnsbury, Vermont 05819
802.279.1143

-----Original Message-----
From: William Ware [mailto:willware10@gmail.com]
Sent: Thursday, April 14, 2016 4:16 PM
To: Ross, Patrick <Patrick.Ross@vermont.gov>
Subject: Town of Burke

Hi Patrick
The town has two culvert projects that are on our inventory plan that we would like to get replaced. One is a four foot by forty the other is a four foot by sixty . We also have a bridge washing out we would like Darrell Mathews to fix for us . As a temp repair .
Thanks
Will

Cathi Feeley

From: William Ware <willware10@gmail.com>
Sent: Thursday, April 14, 2016 11:32 AM
To: Priscilla
Subject: Fwd: More Estimates...

Sent from my iPhone

Begin forwarded message:

From: Darrell Mathews <darrellmathewsexcavating@gmail.com>
Date: April 13, 2016 at 4:50:46 PM EDT
To: William Ware <willware10@gmail.com>
Subject: Re: More Estimates...

This quote is to replace an existing culvert on Upper Carter Road with 60 feet of 4 foot 12 gauge metal culvert.

This will include pumping water bye during construction. Removing old culvert and saving for future use. Installing a new 4 foot 60 foot long culvert. Backfilling with gravel compacted around & over pipe. Placing ledge on inlet and outlet of pipe. I will supply culvert, gravel, equipment and labor to install.

This does not include any permits, road closure or ledge that may affect instillation.

Total Quote: $9,081.00

Darrell Mathews
Mathews Excavating
2043 Hale Road
Waterford, VT 05819
(802)-748-3703 phone/fax

Sent from my iPhone

On Apr 13, 2016, at 11:13 AM, William Ware <willware10@gmail.com> wrote:

Hi Darrell, any word on culvert projects ? I hAve a deadline for Friday for some grant money !

Thanks

Will

You will have the job on calendar brook rd after we get it ready

Cathi Feeley

From: William Ware <willware10@gmail.com>
Sent: Thursday, April 14, 2016 11:32 AM
To: Priscilla
Subject: Fwd: More Estimates...

Sent from my iPhone

Begin forwarded message:

> **From:** Darrell Mathews <darrellmathewsexcavating@gmail.com>
> **Date:** April 13, 2016 at 4:58:37 PM EDT
> **To:** William Ware <willware10@gmail.com>
> **Subject: Re: More Estimates...**
>
> This quote is to replace an existing culvert on Lower Carter Road with 40 feet of 4 foot 12 gauge metal culvert.
>
> This will include pumping water bye during construction. Removing old culvert and saving for future use. Installing a new 4 foot 40 foot long culvert. Backfilling with gravel compacted around and over pipe. Placing ledge on inlet and outlet of pipe. I will supply culvert, gravel, Equipement and labor to install.
>
> This does not include any permits, road closure or ledge that may affect instillation.
>
> Total Quote: $7,592.00
>
> Darrell Mathews
> Mathews Excavating
> 2043 Hale Road
> Waterford, VT. 05819
> (802)-748-3703 phone/fax
>
> Sent from my iPhone
>
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> > Thanks
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> > You will have the job on calendar brook rd after we get it ready