# 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
- [x] D. Structure/culvert upgrades

Town/Organization: Town of Danby

Project Name: Structure Upgrade

Road Name: Danby-Pawlet Road TH #: 1 Structure # (if applicable): 191

Road Type: Paved Uncurbed

Class 2

Watershed: Otter Creek Watershed

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

The culvert is undersized (48" elliptical steel corrugated) and not functioning properly so water is ponding at the outlet. The headwall on the outlet/south side needs to be replaced and there is no headwall on the inlet/north side.

**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):

The project is to replace the headwall at the outlet, construct a headwall at the inlet and replace the 48" culvert. The culvert size will be determined in the hydraulic study.

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

Erosion at the outlet will be eliminated and the water will flow properly through the site.

Better Roads
Clean Water You Can Afford

VTrans
VERMONT
AGENCY OF NATURAL RESOURCES

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

Progress to Date:
No progress

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

This is not an emergency but the drainage issue is affecting the pavement on Danby Pawlet Road, as water tops the road during high water events.

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 (2014-15)- rated poor ( ) 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.):

ANR River Management Engineer, VTrans District and Better Roads Program Manager all visited the site.

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, it will be contracted out.

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

Grant funds will be used for material and equipment

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

The 20% match will be met with town funds.

Requested Grant Amount ($20,000 max Category B, $40,000 max Categories C & D): $ 29,600.00

Estimated Total Project Cost (including 20% local match): $ 37,000.00

Estimated Completion Date: 11/01/2016

REQUIRED ATTACHMENTS:

- [x] Itemized Cost Estimate (labor, equipment, materials)
  (For assistance, call Better Backroads at 802-828-4585)
- [x] Project Location Map → visible on Cat B application for Danby-Pawlet Rd
  (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.
- [ ] 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.
- [x] 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: Lynn R. Dusak Title: Selectboard Chair

LAWRENCE WHITE CONSTRUCTION

## FACSIMILE TRANSMITTAL SHEET

| | |
|---|---|
| TO: Town of Danby | FROM: Johnny White |
| COMPANY: | DATE: MARCH 1, 2016 |
| FAX NUMBER: | TOTAL NO. OF PAGES INCLUDING COVER: 1 |
| PHONE NUMBER: | SENDER'S NUMBER: 802-293-5290 |
| RE: Danby- Pawlet Road – Gate's Culvert | YOUR REFERENCE NUMBER: |

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

To replace culvert on Danby-Pawlet Road near Gates'. Out flow stream coming from Danby Pond. Construction estimate based on roadway being closed for construction.

A) Culvert- 72" (6ft) GALV CMP 10GA ½ COR.....$9,500

B) Headwalls, cast in place concrete (2) @ $4500.....$8,400
C) Excavation, setting, backfill and restoring road base.....$11,100
D) Repave roadway.....$4,800

E) To dig wider to place temporary culvert to divert water when laying new.. $3,200

$37,000

Ferguson is looking to see if a 5x1 (squash) profile is an expectable replacement for 10 gage see attached (4) options.

1187 U.S. ROUTE 7 – DANBY, VT 05739

April 11, 2016

Mr. Alan May
Better Backroads Coordinator
VTrans
I National Life Drive
Montpelier, VT 05633

Dear Alan:

This letter supports the application from the Town of Danby's Better Roads Grant application for a Category D for the culvert upgrade on Danby-Pawlet Road. The present culvert is inadequate and this site is a high priority project for erosion/water quality control. This will help improve the resiliency of the road.

This work is necessary and vital for the Town's infrastructure and we strongly support this application.

Sincerely,

Susan A Schreibman

Susan Schreibman
Assistant Director

cc: Regional Commissioner – Danby
Selectboard Chair – Danby
Transportation Council Commissioner – Danby

RUTLAND REGIONAL PLANNING COMMISSION
The Opera House, P.O. Box 965, Rutland, VT 05702
802-775-0871; FAX 802-775-1766
www.rutlandrpc.org

**Nancy A. Brown**

**From:** <Frank.Gonzales@ferguson.com>
**Date:** Tuesday, March 01, 2016 10:52 AM
**To:** <whites@vermontel.net>
**Subject:** FW: 72 CULVERT

Nancy...see the revised pricing below. I've added 72" 5x1 Aluminized Type 2 as well as 81x59 5x1 Aluminized Type 2 in 12 gauge. The 5x1 allows for a light gauge and the aluminized type 2 coating will double the life of the pipe. Note the pricing is similar to the galvanized pipe with a 2-2/3 x ½ that I originally quoted.

The 2nd options will be a longer lasting pipe than the 1st 2...thanks!

## Price Quotation # B195612

## FERGUSON WATERWORKS #592

**134 PARK ST.**
**RUTLAND, VT 05701**

**Phone : 802-747-7555**
**Fax : 802-747-7129**

**Bid No.....:** B195612
**Bid Date...:** 03/01/16
**Quoted By:** FXG
**Customer.:** LAWRENCE E WHITE
LAWRENCE WHITE CONSTRUCTION
1187 US ROUTE 7
DANBY, VT 05739

**Cust Phone:** 802-293-5290
**Terms.....:** NET 10TH PROX
**Ship To.....:** LAWRENCE E WHITE
LAWRENCE WHITE CONSTRUCTION
1187 US ROUTE 7
DANBY, VT 05739

**Cust PO#..:**

**Job Name.:** 72 CULVERT

| Item | Description | Quantity | Net Price | UM | Total | |
|---|---|---|---|---|---|---|
| SP-CMP7210GAG | 72 GALV CMP 10GA 1/2 COR | 60 | 126.590 | FT | 7595.40 | |
| SP-C72B | 72 BAND | 2 | 253.180 | EA | 506.36 | $8102 |
| | | | | | | |
| SP-CMP835710GAG | 83X57 10GA GALV CMP 1/2 COR | 60 | 140.660 | FT | 8439.60 | |
| SP-CMPBND8357G | 83X57 CMP GALV BAND | 2 | 281.320 | EA | 562.64 | $9002 |
| | | | | | | |
| SP-CMPAT27212GA | 72 AMZ TYPE 2 CMP 5X1 12GA | 60 | 125.130 | FT | 7507.80 | |
| SP-CMPBNDAT27251 | 72 AMZ TYPE 2 BND 5X1 | 2 | 250.260 | EA | 500.52 | $8008 |
| | | | | | | |
| SP-CMPAT281595112G | 81X59 AMZ TYPE 2 5X1 12GA CMP | 60 | 141.200 | FT | 8472.00 | |
| SP-CMPBND81595112G | 81X59 AMZ TYPE 2 BND 5X1 12GA | 2 | 282.400 | EA | 564.80 | $9036 |
| | | | | | | |
| FFREIGHT | FRT CHARGE FEE | 1 | 300.000 | EA | 300.00 | |

Subtotal: $34449.12

(4) options (60 st pipe)

ABBOTT CONSTRUCTION
Road Building - Excavation - Snowplowing
GRAVEL -- SAND -- TOPSOIL -- FILL

P. O. Box 52
Danby, Vermont 05739

1-802-293-5420 1-802-293-5052
marjan63@vermontel.net

Town of Danby

March 1, 2016

Danby, VT

ESTIMATE FOR REPLACING CULVERT ON DANBY-PAWLET ROAD NEAR THE DRY HYDRANT –

Including equipment, labor & material --

The culvert would be purchased by the Town when size of this culvert is determined.

When final specifications on this project have been decided upon, the estimate may change.

This estimate would be $50,000.00, but as stated above, this will possibly be more or less.

Submitted by -

Kenneth G. Abbott
Abbott Construction

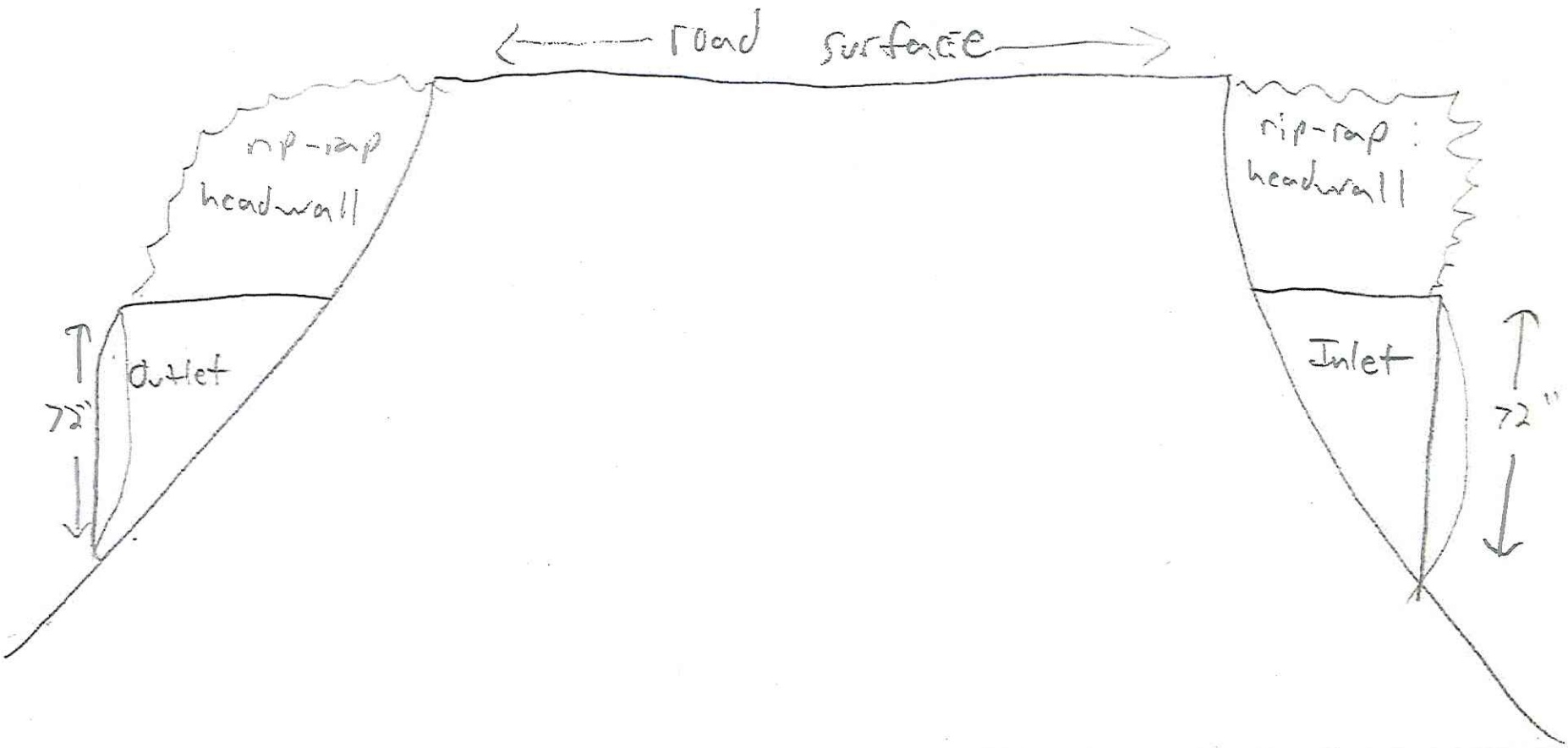
Danby

Danby - Pawlet Rd

Category D

Structure Upgrade

* not to scale *



Danby-Pawlet Rd - Culvert 191 outlet

Inlet - Culvert 191

## Susan Schreibman

**From:** Carvajal, Joshua <Joshua.Carvajal@vermont.gov>
**Sent:** Tuesday, March 08, 2016 11:32 AM
**To:** Town Of Danby Janice
**Cc:** Susan Schreibman
**Subject:** Danby-Pawlet Road_Stream Alteration GP coverage
**Attachments:** Danby-Pawlet Road Atlas Map.pdf

Charlie,

Thanks for visiting this site with me to discuss ANR permit requirements under the Stream Alteration General Permit.

SAGP Coverage will be required since stream is perennial and has a drainage area of 1.25 square miles.

Aquatic organism passage will also be required and the structure will need to satisfy bankfull width requirements.

Once the Vtrans Hydraulics Report is completed, we will work on the final design and permitting for this project.

Please 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

www.watershedmanagement.vt.gov/rivers.htm

floodready.vermont.gov

**Our email addresses have changed** (@vermont.gov)