



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: Town of Elmore Contact Person(s): Michel Lacasse

Address: P.O. Box 123 Lake Elmore, Vermont 05657
Street Address Town Zip

Email: Michel@Elmore@hotmail.com Phone: (802) 888-5485

DUNS #: 083398230 Fiscal Year End Month (MM): June 30th

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



Priority # 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 Elmore

Project Name: Mountain Road upgrades

Road Name: Elmore Mt Road TH #: 3 Structure # (if applicable): 3-20-3-23
3-25, 26, 28
29

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

Watershed: Bedell Brook - Lamoille River

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

8 culverts need replacing. Several are plastic and are crushed others are steel, have out lived time frame. 4 culverts were not found to be identified on culvert inventory. 1 mile of ditching - refurbish - Add. culverts having no flow MAP.

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):

Replace 8 culverts to steel. 4-18" 4-24" with headwalls reshaping and stone lining where necessary. Adding ditching where non-existing.

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

with culverts all working - less flow per culvert. Lower water speed and overtopping of road surface. Added ditching - removing water ~~from~~ from roadway.



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+' (circled)

Progress to Date:

None

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

collaped culverts, plugged, identified as critical urgents

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

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
ANR Management

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).

Some. excavator with operator will be hired.



Describe how the grant funds will be spent and/or attach a project budget: monies will be spent on material purchases and excavator cost.

How do you plan to meet the required 20% match on this grant?: in kind - Labor and equipment.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$40,000.00

Estimated Total Project Cost (including 20% local match): \$57,588.00

Estimated Completion Date: 11/1/16

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.

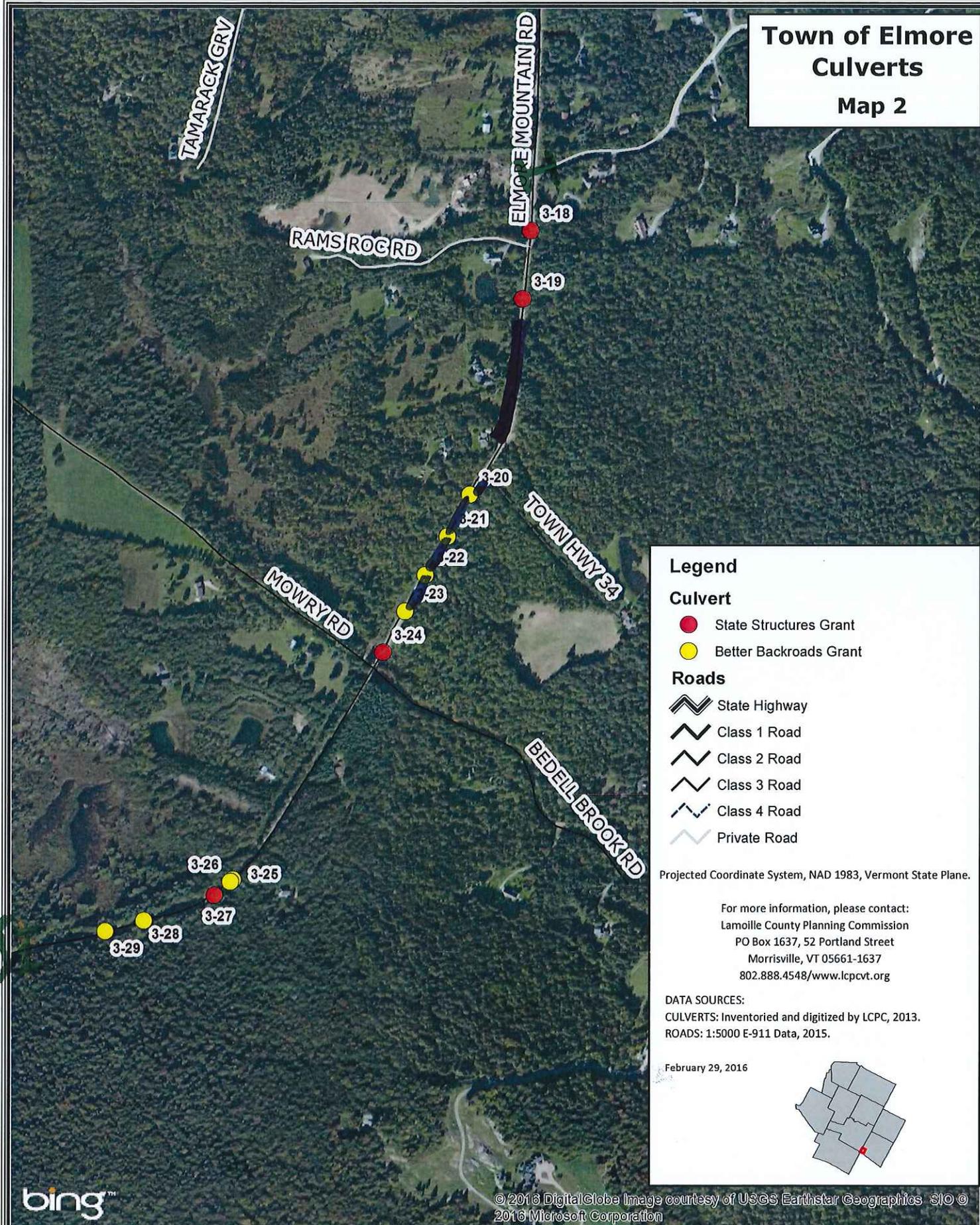
By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

Name: Mich Lacasse

Title: Road Commissioner

Town of Elmore Culverts Map 2



Legend

Culvert

- State Structures Grant
- Better Backroads Grant

Roads

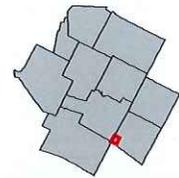
- State Highway
- Class 1 Road
- Class 2 Road
- Class 3 Road
- Class 4 Road
- Private Road

Projected Coordinate System, NAD 1983, Vermont State Plane.

For more information, please contact:
Lamoille County Planning Commission
PO Box 1637, 52 Portland Street
Morrisville, VT 05661-1637
802.888.4548/www.lpcvt.org

DATA SOURCES:
CULVERTS: Inventoried and digitized by LCPC, 2013.
ROADS: 1:5000 E-911 Data, 2015.

February 29, 2016



© 2016 DigitalGlobe Image courtesy of USGS Earthstar Geographics SIO © 2016 Microsoft Corporation

Map intended for planning purposes only.



*project distance 1.3 miles
Stone lined Ditches
* 350yds of waste material*

Vermont Department of Environmental Conservation

Watershed Management Division
1 National Life Drive, Main 2
Montpelier VT 05620-3522
www.watershedmanagement.vt.gov

Agency of Natural Resources

[phone] 802-828-1535
[fax] 802-828-1544

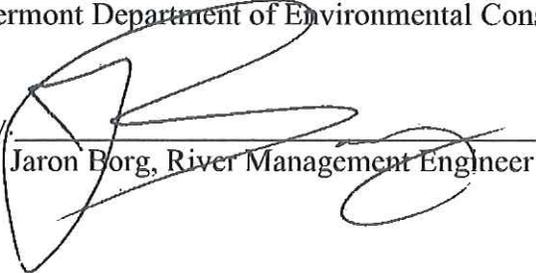
Attn: Michelle Lacasse
Elmore Town Office
1175 Vermont Rt.12
Lake Elmore, VT 05657
(802) 888-5485

Mr. Lacasse,

Thank you for providing me with opportunity to meet with you at the project sites, earlier this week (04/04/2016). At the time of our meeting we reviewed several projects, for which the town of Elmore is applying for grant. All of the proposed projects are located on Elmore Mountain Road extending 1.1 miles from the Morrisville town line. Of the crossing structures reviewed three had identifiable stream channels corresponding to culvert numbers 3-18, 3-19 and 3-27. At the time of our visit flowing water was observed in all three of these channels, however only the stream associated with 3-27 could be identified as perennial. The other two stream corresponding to culverts 3-18 and 3-19 are intermittent streams. As such only the replacement structure for culvert 3-27 will need a stream alteration permit. The proposed replacement at this site is a 4' corrugated arch pipe which corresponds to the measured bank full width of 4'. Given this information the proposed structure, with proper installation will meet with State of Vermont's Stream Alteration General Permit as outlined in section C.2.2.5. pertaining to Construction of close bottom structures. Should you have any further questions or comments regarding this project please do not hesitate to contact me.

Sincerely,

Alyssa B. Schuren, Commissioner
Vermont Department of Environmental Conservation

By: 
Jaron Borg, River Management Engineer

Dated April 8th, 2016

Maintenance and Operations Bureau District 8
680 Lower Newton Rd
St Albans, VT 05478
Jim.cota@vermont.gov

[phone] 802-527-5501
[fax] 802-524-7940
[ttd] 800-253-0191

April 4, 2016

Alan May
Agency of Transportation
Municipal Assistance Bureau
1 National Life Drive
Montpelier, Vermont 05633
Phone (802) 828-4585

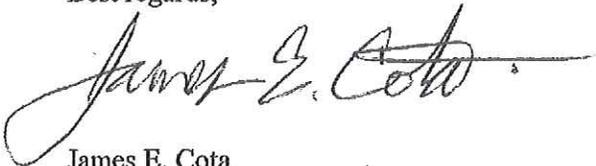
To the Review Committee,

VTrans District 8 supports the Town of Elmore's FY17 Better Roads grant proposal to complete a culvert improvement project on Beach Road and Elmore Mountain Road.

Installing a series of hydraulically adequate culvert replacements with controlled ditches and outlets creates a huge benefit to our environment. I see many culverts in all 34 Towns in District 8 near the end of their life span, around 25 years. Once the collars rust and break the culvert undermines and continuously deposit silt downstream. I am impressed with Elmore's desire to strategically replace culverts in an organized manner before they do damage to our streams and rivers. From my point of view all Towns should have a plan to replace all culverts after 20 years of service or as needed.

District 8 supports the Town of Elmore and is always ready to share our technical expertise when requested.

Best regards,



James E. Cota
VTrans Maintenance and Operations Bureau
District 8 Project Manager
802-782-0802

CC: Robert Moore, Lamoille County Regional Transportation Planner



Lamoille County Planning Commission

PO Box 1637

Demars Building, 52 Portland Street, Second Floor

Morrisville, Vermont 05661

www.lcpcvt.org

(802) 888-4548 • e-mail: lcpc@lcpcvt.org • fax: (802) 888-6938

April 4, 2016

Alan May

Agency of Transportation

Municipal Assistance Bureau

1 National Life Drive

Montpelier, Vermont 05633

Phone (802) 828-4585

To the Review Committee,

The Lamoille County Planning Commission is pleased to offer our support for the Town of Elmore's FY17 Better Roads grant proposal to complete a culvert improvement project on Beach Road and Elmore Mountain Road. Elmore is strategically applying for funds to improve a series of culverts on both roads; by utilizing District Structures funds and Better Roads funds, Elmore can efficiently improve existing conditions at up to 16 culvert locations. Elmore has carefully determined which structures are appropriate for which funding program, and is conveying that information in the applications. These proposed projects will address water quality degradation related to excessive sediment being carried from gravel roads into streams, by identifying erosion problems and developing remediation strategies to correct these problems. The development of a phased implementation plan will help the Town execute this work in a manageable way.

Erosion from gravel roads has been documented as a significant source of sediment and nutrients to Vermont's waterways. This project will result in better road management, improved water quality and improved habitat and inform local stakeholders/user groups on erosion issues from town roads.

Best regards,

Robert Moore

Regional Transportation Planner

CC: Jim Cota, VTrans District 8

