

Priority #2

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: splash pools

Road Name: Beach Road TH #: 7 Structure # (if applicable): 7-1+24

Road Type: Paved or Unpaved (circle one) Curbed or Uncurbed (circle one)

Class 1 Class 2 Class 3 Class 4 (circle one)

Watershed: Lake Elmore

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

Ditch line needs to be reclaimed and stone lined. Culverts 7-1 and 7-4 need splash pools project borders state park and beach.

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):

300' of Ditching. 150' of stone lining Ditch. Stone lining entry of culverts and check dams (splash pools) repave roadway.

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

prevent erosion along road way. slow flow into lake Elmore.

Received

APR 14 2016



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:

culverts and ditching complete on .7 mile of unpaved Beach rd.

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: Capital budget plan

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.):

VT trans Vermont state Parks.

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: To purchase materials and hire excavator.

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

In kind equipment and labor.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$10,684.⁰⁰

Estimated Total Project Cost (including 20% local match): \$13,355.⁰⁰

Estimated Completion Date: 11/30/16

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

Cost Estimate Worksheet

Town and Road Name: Town of Elnore, Beach Road

Project Name: Splash Pools

Equipment	Rate	# Hours	Total (Rate x Hours)
EXCAVATOR WITH OPERATOR	\$125.00	40	\$5000.00
Tandom trk	\$65.00	40	\$2600.00
1-Ton truck	\$30.00	40	\$1200.00
muleh	\$100.00	1	\$100.00
Equipment Total			\$8900.00

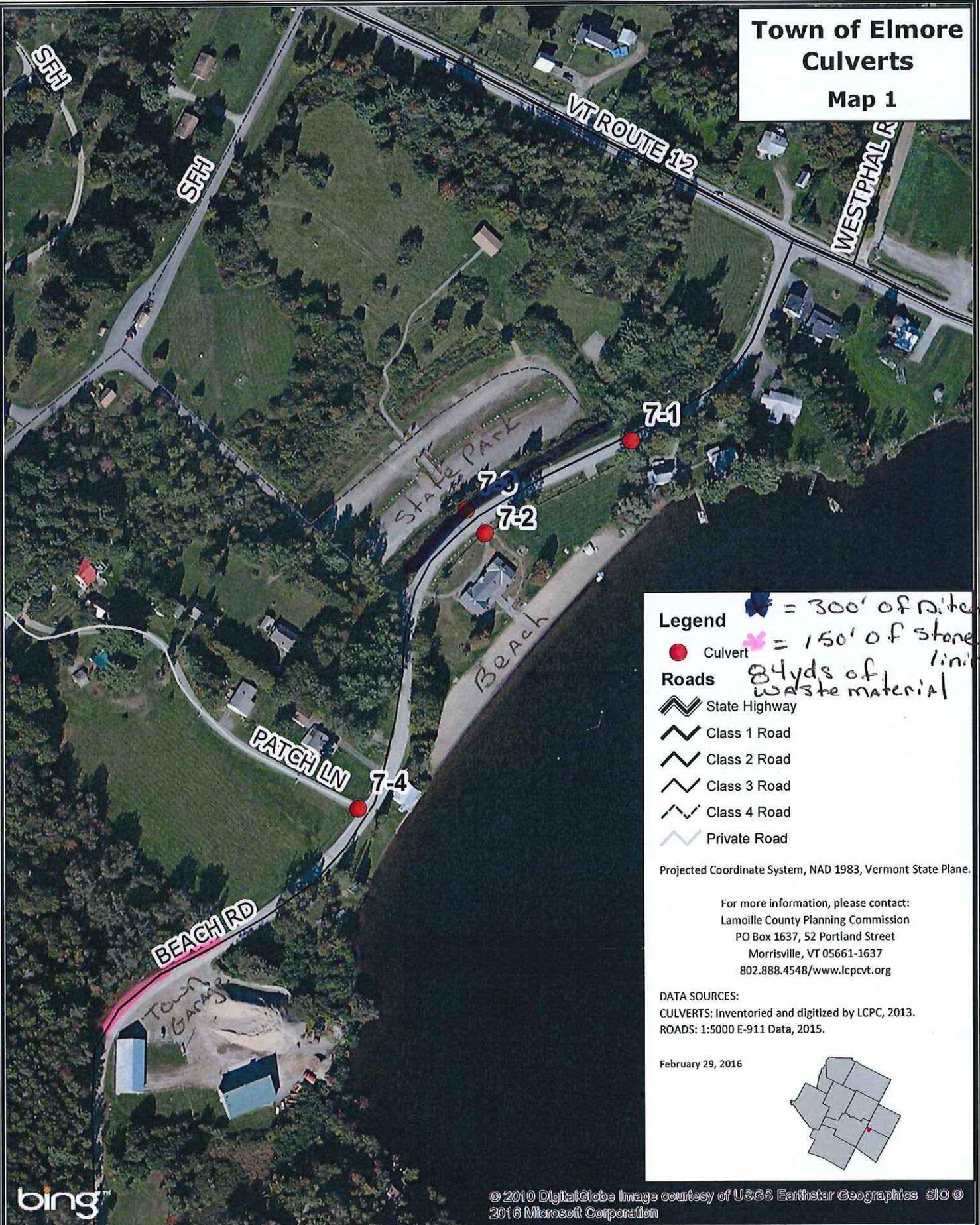
Materials	Rate	Amount	Total (Rate x Amount)
Ortch Stone	\$15.00	140 yds	\$2135.00
Seed - conservation mix	\$80.00	1	\$80.00
muleh	\$4.00	40	\$160.00
Materials Total			\$2375.00

Miscellaneous	Rate	Amount	Total (Rate x Hours)
Miscellaneous Total			

Grand Total \$13,355.00
 Match \$2671.00



Town of Elmore Culverts Map 1



Legend

- Culvert
- = 300' of dithering
- = 150' of stone lining
- = 84 yds of waste material

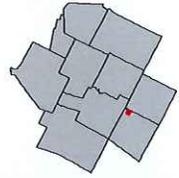
- Roads**
- State Highway
 - Class 1 Road
 - Class 2 Road
 - Class 3 Road
 - Class 4 Road
 - Private Road

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



© 2010 DigitalGlobe Image courtesy of USGS Earthstar Geographics SIO © 2010 Microsoft Corporation

Map intended for planning purposes only.



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

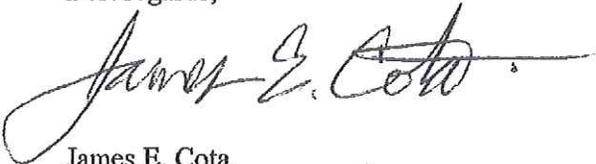
To the Review Committee,

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

Jim Cota

Agency of Transportation, District 8

680 Lower Newton Road

St. Albans, Vermont 05478

Phone (802) 524-5926

To the Review Committee,

The Lamoille County Planning Commission is pleased to offer our support for the Town of Elmore's FY17 District 8 Structures 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.

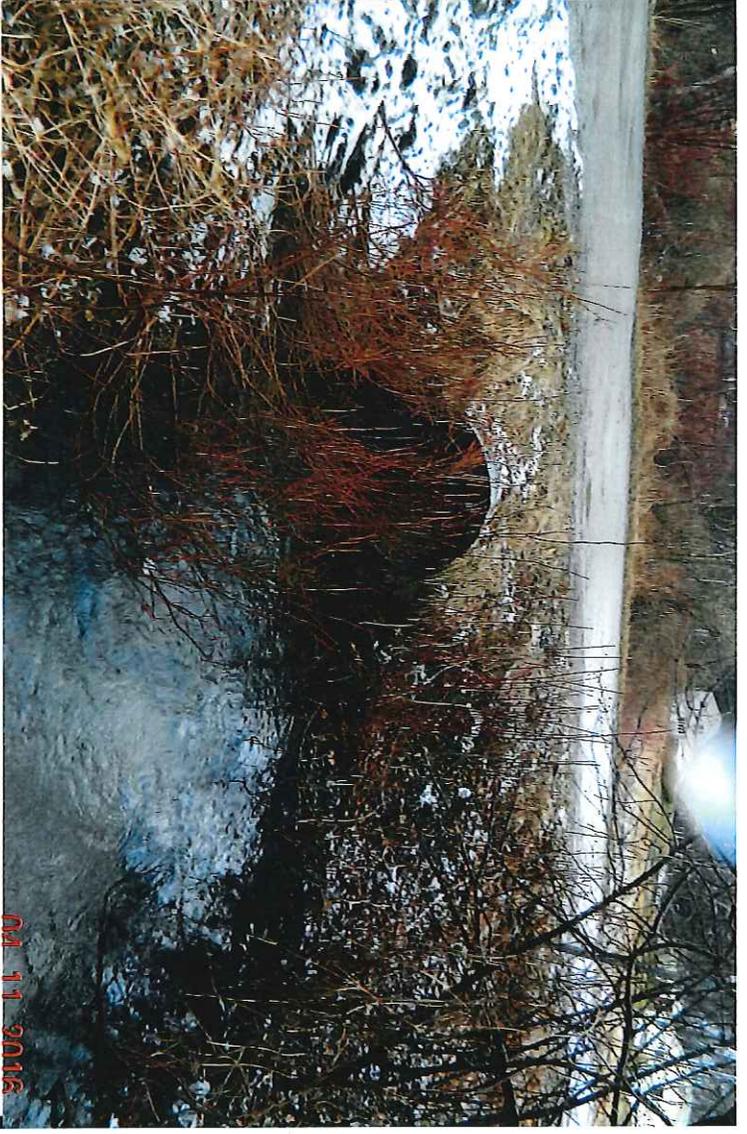
Erosion from gravel roads has been documented as a significant source of sediment and nutrients to Vermont's waterways. This project will result in better road management, improved water quality and improved habitat and inform local stakeholders/user groups on erosion issues from town roads.

Best regards,

Robert Moore

Regional Transportation Planner

CC: Alan May, VTrans Better Roads Program



04 11 2016