





# 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 Johnson

Project Name: FB03 + FB04

Road Name: Foote Brook TH #: 10 Structure # (if applicable): \_\_\_\_\_

Road Type: Unpaved Uncurbed

Class 3

Watershed: Lamoille

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

The stream bank stone and vegetation have failed, the shoulder of the road and the stream bank are slumping into the creek. The ditch opposite the creek is inadequate and the current road runoff goes directly into the creek.

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):

We will remove existing trees, stumps, rocks and boulders. Then cut and shape stream bank, removing spoil off site. Then we will build a rip rap stacked wall using existing boulders and type 4 rock, top that off with type 2 stone and topsoil as per Chris Brunelle.

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

Road slump and bank erosion will be eliminated by armoring stream bank. Regrading road will direct road runoff away from creek and into new vegetated ditch.



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

How do you plan to meet the required 20% match on this grant?:  
With Town labor and equipment.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 15,937.00  
Estimated Total Project Cost (including 20% local match): \$ 19,921.00  
Estimated Completion Date: 10/31/2016

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. *coming*
- 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: *Duncan Hastings*

Title: *Town Administrator*





# FB03 FB04

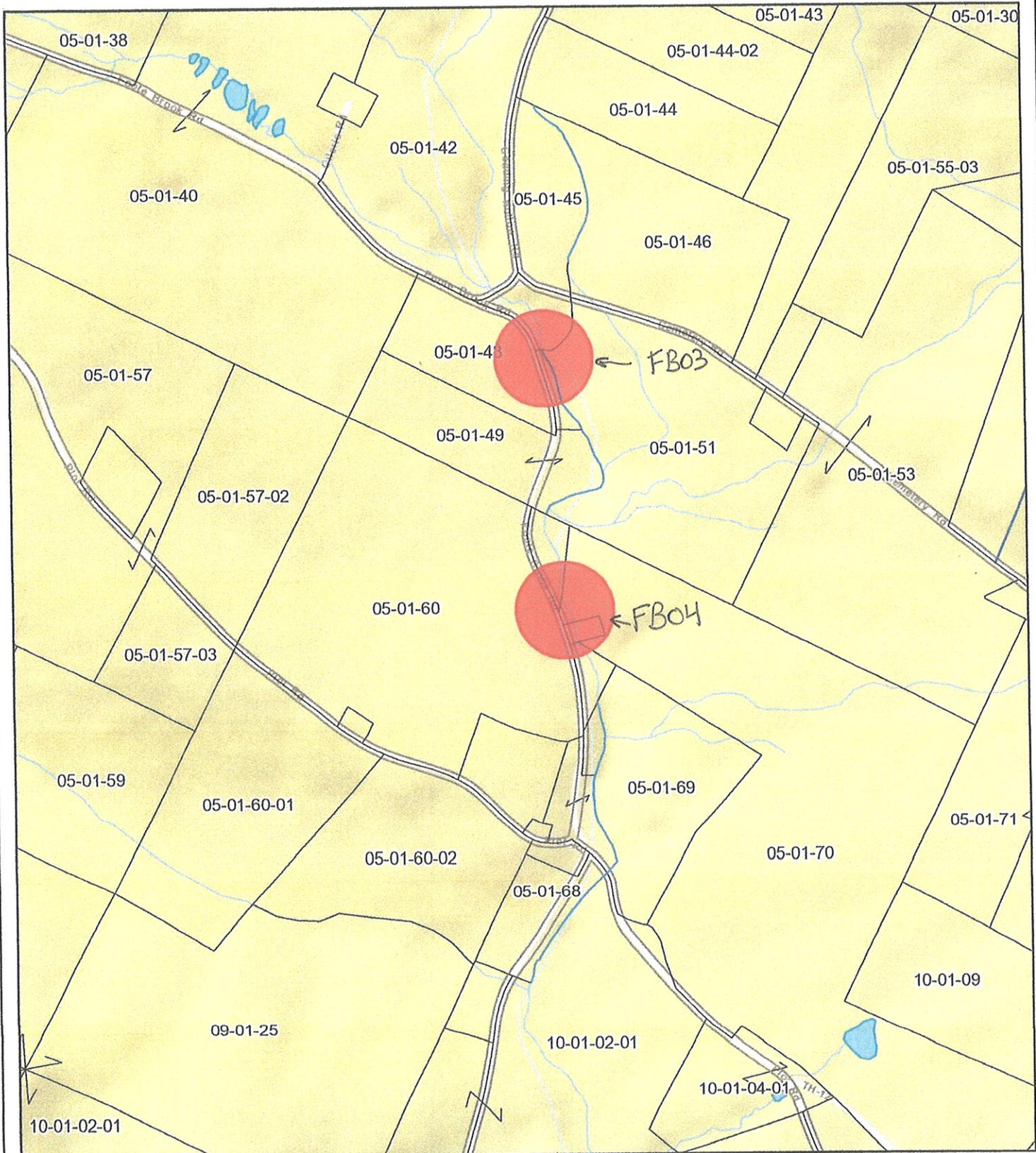
Johnson, VT

1 inch = 752 Feet



April 11, 2016

www.cai-tech.com

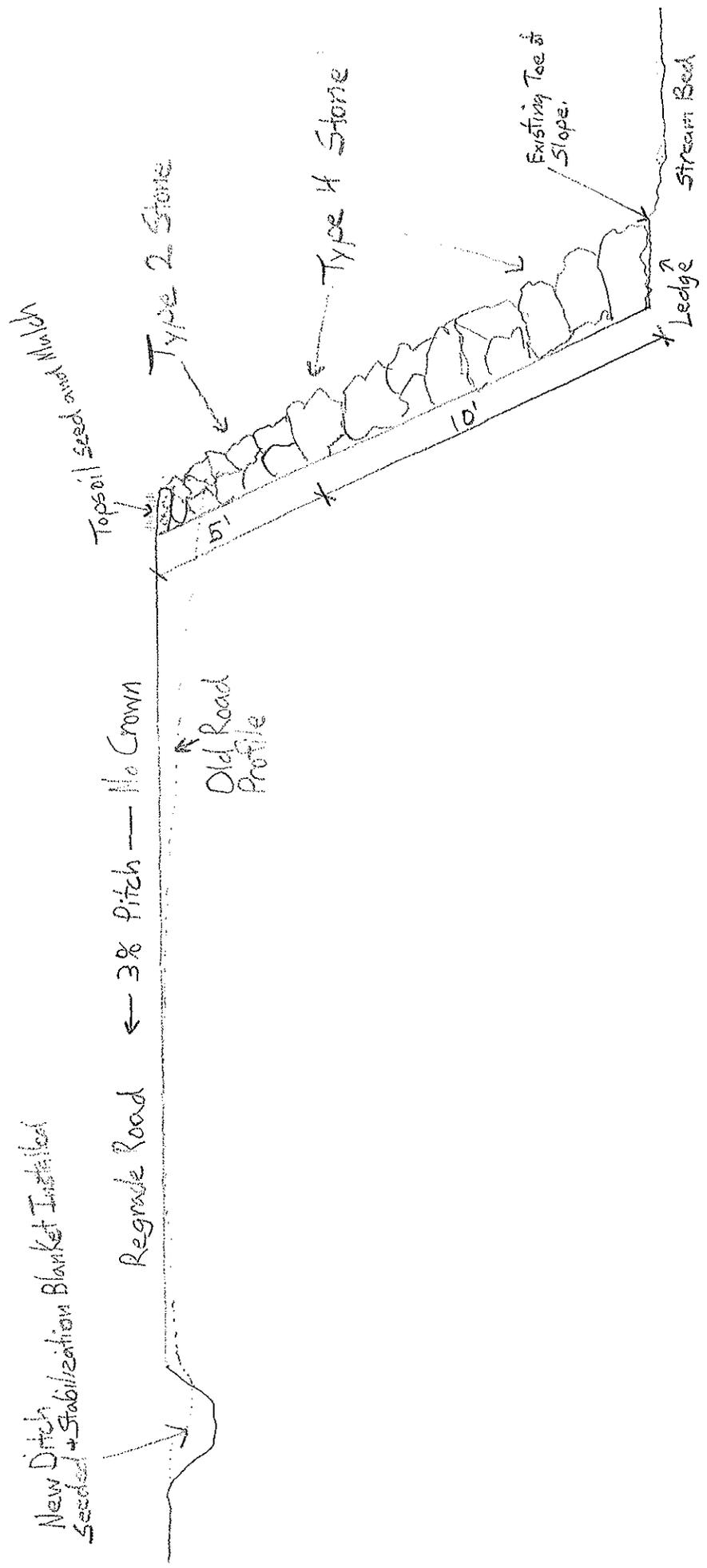


Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

Foots Brook Road  
Johnson VT

- Type 1 Stone 336 yds
- Type 2 Stone 51 yds
- Crushed Gravel 84 yds
- Topsoil 16 yds
- Spoil 100 yds

FB03 - 90'x15'  
FB04 - 80'x20'



From 2015 Lamville County Erosion Study

Town	Road Name	Site ID	Erosion Type	Erosion Location	Volume	Steepness	Ground Cover	Deposition	Total Score	Priority	Comments	Design	Engineering Needed
Johnson	FOOTE BROOK RD	FB03	Slump, Inclusion	Shoulder	Medium	Steep > 15	Bare	High	10.4	High	Roadside slump/inclusion. Roadside effectively stream bank reinforced with boulders. Material eroding through and into stream. More material with vegetation needed.	No	Yes
Johnson	FOOTE BROOK RD	FB04	Slump	Shoulder	Medium	Steep > 15	Bare	High	10.4	High	Roadside slump/inclusion. Boulder reinforcement has failed and fallen into stream. Direct connection from roadway to stream. Heavy sedimentation.	No	Yes



FB04



FBO4



FB04



FBO3



FBO3



## Lamoille County Planning Commission

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Demars Building, 52 Portland Street, Second Floor

Morrisville, Vermont 05661

[www.lcpcvt.org](http://www.lcpcvt.org)

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

April 14, 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 **Johnson's** FY17 Better Roads grant proposal to complete a project on Foote Brook Road. The proposed projects will address water quality degradation related to stream bank failure between the road and the stream. The Town consulted with Jim Ryan for technical input and has communicated with Chris Brunelle for permitting guidance.

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

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

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April 13, 2016

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

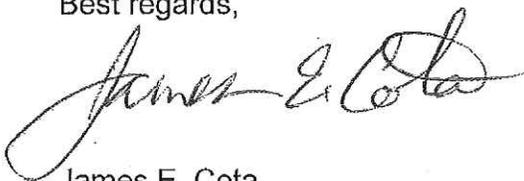
To the Review Committee,

VTrans District 8 supports the Town of Johnson FY17 Better Roads grant proposal to repair a stream bank failure on Foote Brook Road using best management practices from your Vermont Better Backroads Manual.

Stabilizing this slope is critical in our joint efforts to reduce sediment leaving the Town right-of-way and causing damage to our streams, rivers and lakes.

District 8 supports the Town of Johnson and is ready to provide 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