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:

- [x] 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: PL01+

Road Name: Plot **TH #:** 1 **Structure # (if applicable):** _____

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

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

Watershed: Lamoille

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

80% of project has a roadway with 5%-15% slope with no ditch on either side of road. Water stays on steep roadway for 600' causing incisions in road and shoulder. Transporting large quantitys of sediment indirectly to Foot Brook

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):

Excavate ditches on both sides of roadway, stone line 20% of new ditch, Install turnouts, seed and erosion blanket 20% of new ditches, Working from the top down.

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

Erosion and sediment transfer should be 75% eliminated by stoning, vegetating and installing check dams in new ditches.

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:
Have not started project.

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: Class 3 and 4 Road Erosion Assessment PLC2 + Another 216 at the bottom of the hill identified by Jim Ryan as important. 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.):
The entire project was walked with Jim Ryan DEC Watershed management division and Rob Moore LCPC.

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).
Yes, if ledge removal is necessary excavator with buster will be run by others.

Describe how the grant funds will be spent and/or attach a project budget: Please see attached project budget page.

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

Requested Grant Amount ($20,000 max Category B, $40,000 max Categories C & D): 17,874

Estimated Total Project Cost (including 20% local match): 22,343

Estimated Completion Date: Fall 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.
- ☐ 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 3/28/16 Title: Town Administrator Road Commissioner

Vermont Better Roads Category B Grant Proposal Scoring Criteria

All categories will be scored on a sliding scale. The numbers below represent guidelines for scoring.

1. **Application is complete [maximum 5 points]**
   - Yes (5 points)
   - No (0 points)

2. **Use of Best Management Practices (BMPs) from Better Back Roads Manual, ANR Stormwater Manual, and/or Green Stormwater Infrastructure sizing tool for small sites [maximum 15 points]**
   - The proposal includes specific steps to maximize the likelihood of long-term success by applying BMPs (15 points)
   - The proposal includes an adequate number of steps to increase the likelihood of success by applying BMPs (10 points)
   - The proposal includes little or no steps to increase the likelihood of success by applying BMPs (0 points)

3. **Expected Water Quality Benefits – [maximum 25 points]**
   - Project will lead to significant reductions in sediment and/or phosphorous (25 points)
   - Project will lead to moderate reductions in sediment and/or phosphorus (15 points)
   - Project will lead to small reductions in sediment and/or phosphorus (10 points)

4. **Distance from end of project to water or direct conveyance [maximum 20 points]**
   - 0-50 ft. (20 points)
   - 50-250 ft. (10 points)
   - 250 ft. + (0 points)

5. **Project is identified through a municipal road inventory, and/or capital budget plan, tactical basin plan, culvert inventory, please include with your application [maximum 15 points]**
   - Project identified (15 points)
   - Not identified (0 points)

6. **Cost effectiveness [maximum 15 points]**
   - The cost of the project is reasonable based on the expected results (15 points)
   - The cost of the project outweighs the benefits (0 points)

7. **A river/water quality or transportation professional, or other partner is engaged in the project [maximum 10 points]**
   - Partners are identified and letters of support are included (10 points)
   - A letter of support is included (5 points)
   - No documentation of partnership exists (0 points)

8. **Selection Committee discretionary allowance [maximum 10 points]**

9. **New Towns applying to the program will receive a BONUS of [10 points]**

Cost Estimate Worksheet

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

Labor	Rate	# Hours	Total (Rate x Hours)
Brian K.	31.25	40	1,250.
Ray G.	20.08	40	803.
Chris P.	20.08	40	803.
Jason W.	19.50	40	780.
		Labor Total	3,636.

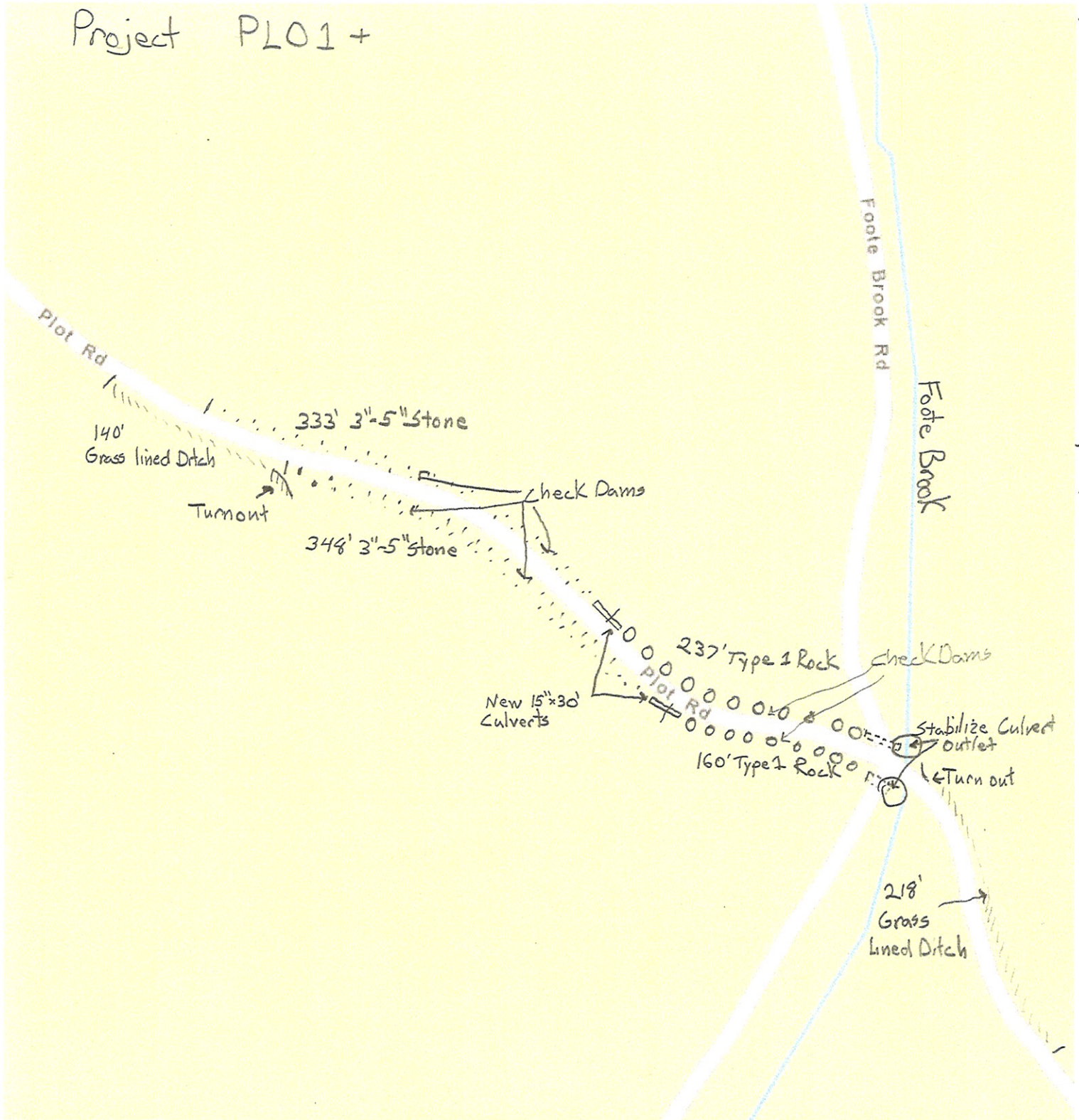
Equipment	Rate	# Hours	Total (Rate x Hours)
Excavator	2500 week		2,500.
Loader	60.25 hr	24	1,446.
Tandem Dump Trucks	77.25 hr	80	6,180.
Excavator with buster	2,300. Day		2,300
		Equipment Total	12,426.

Materials	Rate	Amount	Total (Rate x Amount)
Type I Stone	13.50 ton	132	1,782.
3"-5" Stone	12.25 ton	183	2,241.
Plant Mix	10.70 ton	36	385.
3/4" Fractured stone	11.50 ton	18	207.
15" Culvert	8.63	60'	519.
Filter fabric	207.20	4	828.
Jute erosion blanket	80.	4	320.
		Materials Total	6281.

Miscellaneous	Rate	Amount	Total (Rate x Hours)
		Miscellaneous Total	

Grand Total 22,343.

Match 4,468.


Project PL01+
1 Inch = 100 Feet
100'
Type 1 Rock
3"-5" Stone
Grass Lined
New Ditch 1058'
Reditch 160'
Ditch Spoil 775 yds
Type 1 Rock 132 ton
3"-5" Stone 183 ton
Plot Rd
Foote Brook Rd
Foote Brook
140' Grass lined Ditch
Turnout
333' 3"-5" Stone
Check Dams
348' 3"-5" Stone
237' Type 1 Rock
Check Dams
New 15"x30' Culverts
Plot Rd
Stabilize Culvert outlet
160' Type 1 Rock
Turn out
218' Grass Lined Ditch

PL01

PL01

PL01

Lamoille County Planning Commission
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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 Johnson's FY17 Better Roads grant proposal to complete a project on Plot Road and Tree Farm Road. 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