



Vermont Better Roads Grant Program



Cover Sheet

Please complete this page ONCE and return with your Grant Category Application(s)

Town/Organization: __ BETHEL __

Primary Contact Person (Responsible for Signing Grant Agreement): _

Therese Kirby _____ Title: __ Town Manager __

Address: ___ 134 S Main St, Bethel, VT 05032 ___
Street Address *Town* *Zip*

Primary Contact Person Email: __ betheltownfinance@comcast.net __ Phone: (802) 234-9340 ___

SAM unique ID #: __ JLG4TM6MMAM1 ___ Fiscal Year End Month (MM): __ 06 ___

Town Clerk / Admin email: __ betheltownclerk@comcast.net ___

Road Foreman Name: _ Morgan Drury _____ Road Foreman Email: _ bethelroadforeman@gmail.com ___



CATEGORY B/C/D

Please complete one application per project you are applying for.

Please check the Category you are applying for:

- B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation
- C. Correction of a Stream Bank, Lake Shore or Slope Related Problem
- D. Structure/culvert 36" diameter or greater

Municipality: Bethel

Road Name: Dearing Rd TH #: 12 Structure # (if applicable): 21

Road Type: Paved or **Unpaved** (select one) Road Class: 1 2 **3** 4 (select one)

Please provide a thorough description of the erosion/water quality problem (ex. Roadway has steep slope with no ditch which is causing severe roadway erosion, which outlets into the Lamoille River): Culvert 21 on Dearing Rd is an undersized and poor condition 48" x 20ft metal culvert. The roadway is between 5%-10% grade and the stream makes a 90 degree turn into the culvert. During heavy rain events, the culvert inlet and surrounding roadbed gets washed out. Sediment erosion makes its way into an unnamed tributary off the Second Branch of the White River watershed.

Has the town completed an MRGP compliant road erosion inventory?

Yes No In progress

Project Length (linear feet along roadway): 12 ft.

Number of structures/culverts replaced/repaired: 1

Average slope of roadway: 0-5% 5-10% >10%

Provide a VERY detailed map of project location showing start and end points: Included

Provide a sketch of project location showing distances and project details: Included



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Please provide the Road Segment ID (RSID) for your project. If several, please list all. In addition to the RSID please indicate what the resulting rating of each segment before construction as well as after construction in accordance with the MRGP.* (i.e., Fully Meets Standard, Partially Meets, Does Not Meet) For assistance, please contact Better Roads Staff (802)828-4585.

RSID	Hydrologically Connected?		Pre-construction MRGP Conformance			Post-construction MRGP Conformance		
	Yes	No	Fully Meets	Partially Meets	Does Not Meet	Fully Meets	Partially Meets	Does Not Meet
31797	X			X		X		

*In order to "Fully Meet" the standards the road segment must have proper crown, removal of shoulder berms, proper ditching, proper conveyance and no erosion present at culvert inlets and outlets.



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Environmental Concerns:

All projects require a review of potential impacts by our environmental team. To expedite the review process, please check the boxes below that describe existing structures/conditions to be replaced/maintained (if any) and the project description that applies (if any).

Existing Structures:	
<input checked="" type="checkbox"/> Steel/Plastic Culvert	<input type="checkbox"/> Concrete Box Culvert
<input type="checkbox"/> Stone Culvert – Take pictures	<input type="checkbox"/> Concrete Bridge
<input type="checkbox"/> Ditch	<input type="checkbox"/> Rolled Beam/Plate Girder Bridge
<input type="checkbox"/> Foundation remains, mill ruins, stone walls, other – Take pictures	<input type="checkbox"/> Stone abutments or piers – Take pictures
<input type="checkbox"/> Buildings within 300 feet of work - Take pictures	
Project Description:	
<input type="checkbox"/> New ditches will be established	<input checked="" type="checkbox"/> All work will be completed from the existing road or shoulder
<input type="checkbox"/> Reestablishing existing ditches only	<input type="checkbox"/> There will be excavation within 300 feet or a river or stream – Take pictures
<input checked="" type="checkbox"/> The structure is being replaced on existing location/alignment	<input type="checkbox"/> Road reclaiming, reconstruction, or widening
<input type="checkbox"/> Excavation within a floodplain – Take pictures	<input type="checkbox"/> Temporary off-road access is required
<input checked="" type="checkbox"/> Tree cutting/clearing – Take pictures	<input type="checkbox"/> The roadway will be realigned

Please describe the project and how it will create a positive water quality benefit (ex. Reshape 500' of ditch and line with 12 inch minus stone, to prevent sediment from entering the Lamoille River at the bottom of the hill):

Jaron recommended a culvert replacement with a 6ft4in by 4ft9in embedded 2ft and with the low cover at this site, to be an arch pipe culvert. This will improve sediment erosion and protect the roadway from future washouts.

Please list any professionals or partners that assisted with planning this project (ANR River Management Engineer, Army Corps of Engineers, VTrans staff, Basin Planner, RPC staff, etc.):

Jaron Borg, VT ANR RME; Rita Seto, Two Rivers-Ottawaquechee Regional Commission

Is the project located in the town "Right of Way?" (select one) Yes No Both

Please be aware, Municipalities are required to have an Agreement for Entry & Liability Release for any impacted properties (prior to the start of construction.)



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Budget:

Please attach a project budget and confirm below that is attached:

Project budget IS attached

Are you applying to other grant programs to help fund this project? If so, what programs? Please note that Better Roads requires a 20% local match and Better Roads funding may not be used as match for other state or federally funded programs.

___ No _____

Requested Grant Amount:	\$ _29,200_ . _00_
+	
Local Match:	\$ _7,300_ . _00_
=	
Total Project Cost:	\$ _36,500_ . _00_

Requested Grant Amount Max:
 \$20,000 Category B
 \$40,000 Category C
 \$60,000 Category D

See page 6 for more information on calculating match

Estimated Completion Date: 6/30/2025

REQUIRED ATTACHMENTS:

Please use the documentation checklist below to ensure that all of the relevant items regarding your application have been included. **It is preferred that your application is a single PDF file.**

- Grant application cover sheet
- Grant application form, including chart with RSID and MRGP compliance before and after project completion
- 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).
- Detailed Project Location Map
- Sketch of proposed project and 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 and limits of work
- Photos must be color and clear to see.**
 - Please make sure there are enough photos to get a good idea of the project area**
- 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:

Name: Meredith Kirby Title: Town Manager
MUST BE TOWN ADMINISTRATOR/MANAGER OR SELECT BOARD CHAIR



Estimate

Dylan McCullough 8023699989
 4866 North Road
 Bethel, VERMONT 05032

Estimate Number: E221212356
Estimate Date: 12/4/2023
Payment Terms: Due On Receipt
Estimate Amount: 36,237.50
Created By: Dylan McCullough

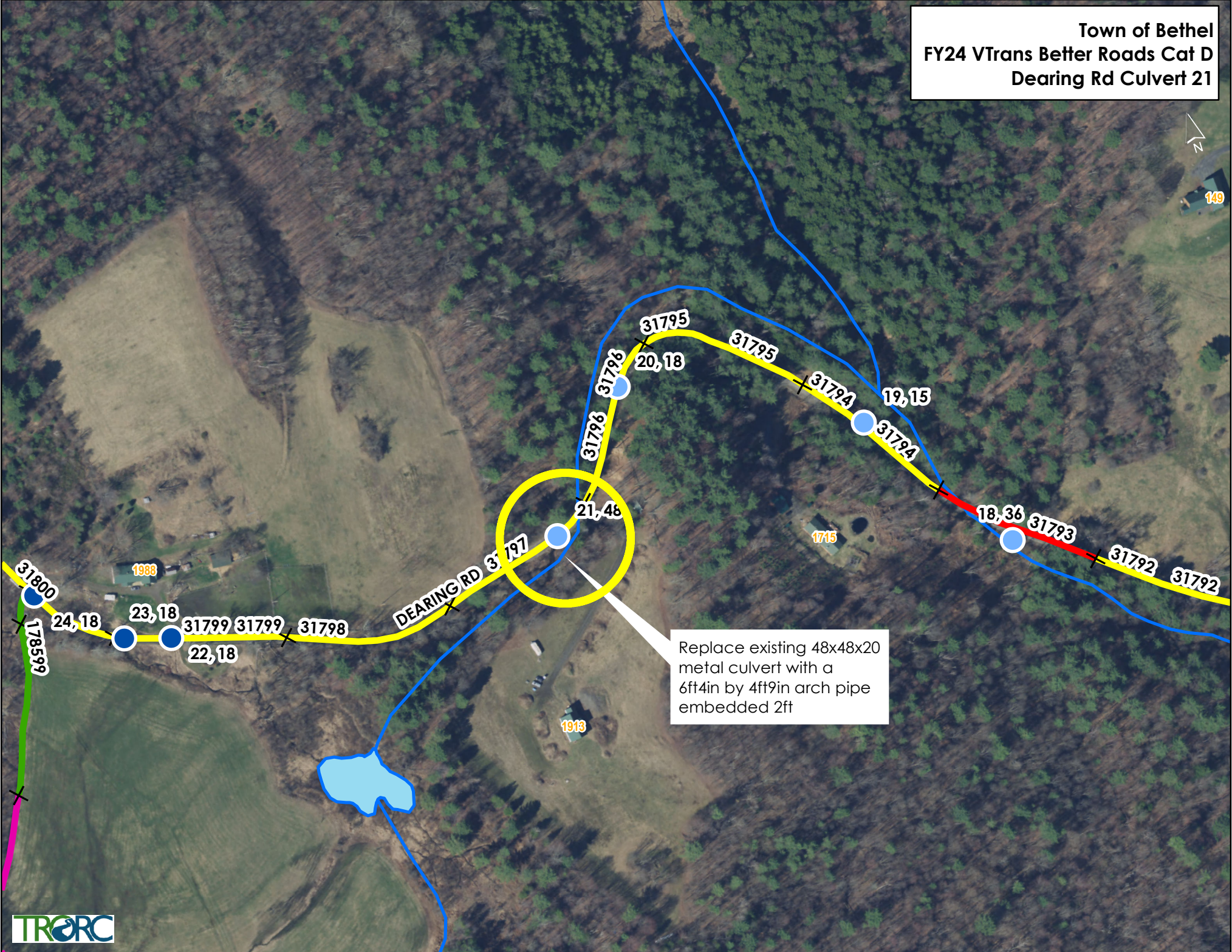
Billing Address
 The Town Of Bethel

Shipping Address
 The Town Of Bethel

Item #	Item Name	Quantity	Unit Price	Taxable	Total
2377	Arch pipe 78"x57x30' \$310 per foot on arch pipe	30.00	310.00		9,300.00
2378	Concrete Header Poured concrete or pre cast header for arch pipe.	1.00	7,250.00		7,250.00
2379	Hard Pack 5 loads of hardpack	75.00	26.50		1,987.50
2380	Traffic Control Week of traffic control.	1.00	1,000.00		1,000.00
2381	Excavation + Trucking This is a quote on replacing the existing 36 x36 x 25 steel culvert in fair condition Deering Road with a 76" x 57" x 30ft squash culvert? It is labeled as culvert #18 and located up from 1442 Deering Road, past Arnold Road. I am going to do all of the work removing old culvert and replacing with arch pipe including traffic control and purchasing all of the materials.	1.00	15,700.00		15,700.00
2211	30 Concrete Blocks	10.00	100.00		1,000.00

Subtotal: \$ 36,237.50
Estimate Amount \$ 36,237.50

Town of Bethel
FY24 VTrans Better Roads Cat D
Dearing Rd Culvert 21



Replace existing 48x48x20 metal culvert with a 6ft4in by 4ft9in arch pipe embedded 2ft

TOWN OF BETHEL – BETTER ROADS CAT D – DEARING RD CULVERT 21 PRE PICS



Segment 31797 – Culvert 21 inlet of an existing 48" x 48" x 20ft metal culvert



Culvert 21 inlet view of upstream

TOWN OF BETHEL – BETTER ROADS CAT D – DEARING RD CULVERT 21 PRE PICS



Culvert inlet



Culvert 21 outlet



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River Management Engineer Support Letter

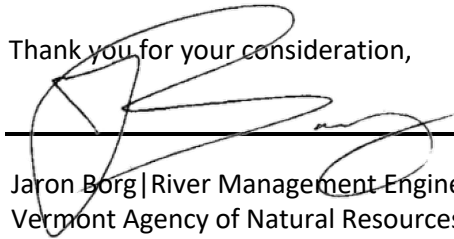
I am providing this letter of support to the of Bethel for their Better Roads grant application on Dearing Road/ TH12, which will have an impact a tributary to The Second Branch of the White River.

Stream Alteration Permit Required for this project: Yes No

Upon review of the site, I have determined that the proposed culvert sizing meets minimums for width, and embedment under the Stream Alteration Rule. Additionally, if this project is constructed according to the recommendations described below (see Comments), the following stream equilibrium and connectivity benefits will be achieved:

- Restores or enhances floodplain/access to floodplain
- Restores or enhances natural channel dimensions
- Establishes tree/shrub buffer
- Restores habitat (including aquatic organism passage)
- No additional benefits
- Further restricts or impacts the stream

Thank you for your consideration,



Jaron Borg | River Management Engineer
Vermont Agency of Natural Resources | Watershed Management Division

Comments: Proposed installation of a 7-ft 6-in wide culvert with 2-ft of embedment. Properly designed and installed this structure will enhance fish passage.