



## Cover Sheet

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

Town/Organization: \_\_\_ West Rutland \_\_\_\_\_

Primary Contact Person (Responsible for Signing Grant Agreement): \_\_\_ Mary Ann Goulette \_\_\_\_\_

Title: \_\_\_ Town Manager \_\_\_\_\_

Address: \_\_\_ 35 Marble Street \_\_\_\_\_ West Rutland \_\_\_\_\_ VT \_\_\_\_\_ 05777 \_\_\_\_\_  
*Street Address* *Town* *Zip*

Primary Contact Person Email: \_\_\_ mgoulette@westrutlandvt.org Phone: (802) 438 - 2263 \_\_\_\_\_

SAM unique ID #: S4MSEWJL9KD5 \_\_\_\_\_ Fiscal Year End Month (MM): \_\_\_ 06 \_\_\_\_\_

Town Clerk / Admin email: \_\_\_\_\_

Road Foreman Name: \_\_\_ Sean Barrows \_\_\_ Road Foreman Email: \_\_\_ sbarrows@westrutlandvt.org \_\_\_\_\_

## **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: West Rutland

Road Name: Clark Hill TH #: 16 Structure # (if applicable): 16-08, 16-09

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 Elliptical cross culvert has an 18" driveway culvert cored into it. Culvert inlet is very close to the road shoulder and is experiencing erosion on shoulder and back slope of ditch. Culvert is undersized, leaving roadway vulnerable to a washout in a heavy flow event.

Has the town completed an MRGP compliant road erosion inventory?

- Yes  No  In progress

Project Length (linear feet along roadway): 150 ft.

Number of structures/culverts replaced/repaired: 3

Average slope of roadway:  0-5%  5-10%  >10% X 12.72%

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



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 – <b>Take pictures</b>	<input type="checkbox"/> Concrete Bridge
<input checked="" type="checkbox"/> Ditch	<input type="checkbox"/> Rolled Beam/Plate Girder Bridge
<input type="checkbox"/> Foundation remains, mill ruins, stone walls, other – <b>Take pictures</b>	<input type="checkbox"/> Stone abutments or piers – <b>Take pictures</b>
<input checked="" type="checkbox"/> Buildings within 300 feet of work - <b>Take pictures</b>	
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 checked="" type="checkbox"/> Reestablishing existing ditches only	<input type="checkbox"/> There will be excavation within 300 feet of a river or stream – <b>Take pictures</b>
<input 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 – <b>Take pictures</b>	<input type="checkbox"/> Temporary off-road access is required
<input type="checkbox"/> Tree cutting/clearing – <b>Take pictures</b>	<input type="checkbox"/> The roadway will be realigned

**Please describe the project and how it will create a positive water quality benefit :**

Replace deteriorating 34"x53" elliptical culvert with a 71" x 47" galvanized elliptical culvert and create a better alignment with streambed to lessen erosive action against road shoulder. Separate 18" culvert to limit opportunity for plugging. Install driveway culvert below existing inlet and drain driveway runoff to ditch below. Properly sized culvert will lessen possibility of over topping and washing out road in a heavy flow event.

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

\_\_Josh Carvajal, ANR River Management Engineer\_\_\_\_\_

**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.)



# Vermont Better Roads Grant Program



## 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.

<b>Requested Grant Amount:</b>	\$ <u>50,423.72</u>	<b>Requested Grant Amount Max:</b>
+		\$20,000 Category B
<b>Local Match:</b>	\$ <u>12,605.93</u>	\$40,000 Category C
=		\$60,000 Category D
<b>Total Project Cost:</b>	\$ <u>63,029.65</u>	

See page 6 for more information on calculating match

Estimated Completion Date: September 30, 2024

### 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
  - o 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.**

- o **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:  Title: Town Manager

**MUST BE TOWN ADMINISTRATOR/MANAGER OR SELECT BOARD CHAIR**

### Vermont Better Roads Grant Program

Cost Estimate Worksheet						
Town of West Rutland - Clark Hill						
	Item	Unit	Unit Cost	Units	Cost	Total Cost
<b>Labor</b>						
Contract with Fabian's Excavating						
Town crew (3 men @ 4 hrs each)		12	\$ 45.00			\$ 540.00
				<b>Total Labor</b>		<b>\$ 32,790.00</b>
<b>Equipment</b>						
Excavator		4	\$ 100.52			\$ 402.08
Dump Truck		4	\$ 74.83			\$ 299.32
				<b>Total Equipment</b>		<b>\$ 701.40</b>
<b>Materials</b>						
18" polypropylene pipe		feet	\$ 26.94	100	\$ 2,694.00	
71" x 47" 10 gauge galvanized elliptical arch		feet	\$ 230.26	100	\$ 23,026.00	
galvanized bands		each	\$ 460.00	4	\$ 1,840.00	
delivery of arch					\$ 500.00	
2'x2'x6' concrete waste blocks		each	\$ 85.00	14	\$ 1,190.00	
3/4" gravel		ton	\$ 11.25	18	\$ 202.50	
type 1 rock		ton	\$ 12.25	7	\$ 85.75	
				<b>Total Materials</b>		<b>\$ 29,538.25</b>
Miscellaneous						
<b>Grand Total</b>						
<b>Match</b>						
BB Share=		\$ 50,423.72	Town Share=		\$ 12,605.93	
						<b>\$ 63,029.65</b>



Hauling with  
pride since 1937

# Fabian

**EARTH MOVING, INC.**

[www.fabianeearthmoving.com](http://www.fabianeearthmoving.com)

1409 Pleasant Street  
West Rutland, Vermont  
05777

Ph. 802.438.5040  
Fx. 802.438.5772

December 19, 2023

Town Of West Rutland  
35 Marble Street  
West Rutland, VT 05777

Attn: Sean Barrows  
RE: Clark Hill Culvert Replacement

- Saw cutting of pavement.
- Installation of construction signs and cones
- Removal of existing pavement to legal waste facility
- Excavation and removal of existing squash pipe and 18" culvert that comes from Hansen drive.
- Installation of new 18" ads culvert from Hansen drive to to lower point on Clark hill, beside new 48" <sup>71x47"</sup> culvert
- Installation of 100' of new <sup>71x47</sup> 48" culvert to replace existing culvert.
- Stone bedding and compaction of all new piping
- Installation of concrete waste blocks on both ends of culverts for headwalls.
- Installation of new Riprap stone at both ends of new piping, and up the hill 50' from inlet.
- Installation of gravel base to match existing base.
- Compaction and grading
- Pavement patching of all disturbed pavement.
- Cleaning of existing ditching at intersection and installing of stone lining.  
(Town to provide piping)

COMPLETION OF THE NEW CULVERT WORK FOR THE PROPOSED SUM OF THIRTY-TWO THOUSAND TWO HUNDRED AND FIFTY \$32,250.00 DOLLARS.

Please call with any questions,

Ronald E Fabian  
802-342-0339  
[Ron@Fabianeearthmoving.com](mailto:Ron@Fabianeearthmoving.com)

### ACCEPTANCE OF PROPOSAL

The above pricing and specified work and conditions are satisfactory and hereby accepted.  
You are authorized to complete the work.

Payment due upon completion

Signature

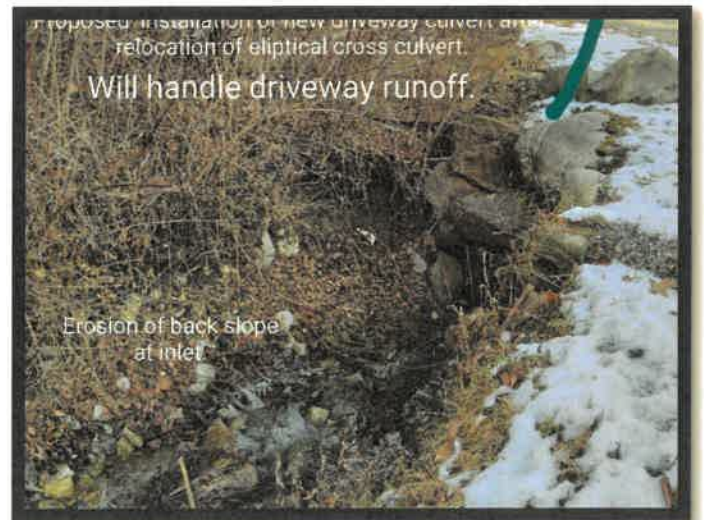
Date of Acceptance

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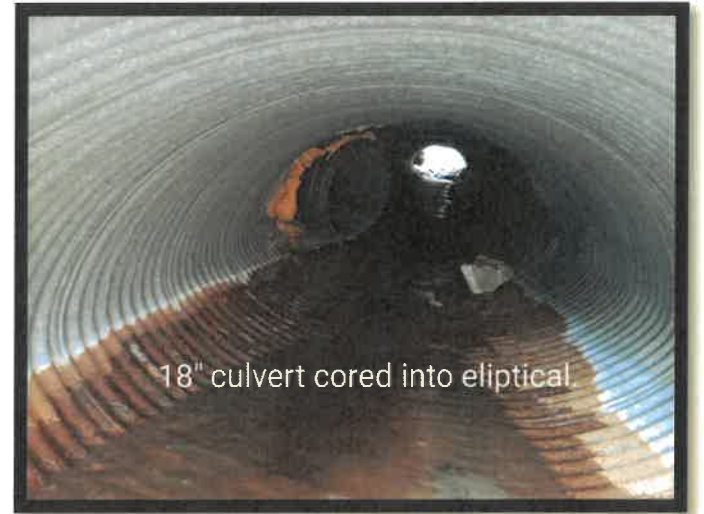
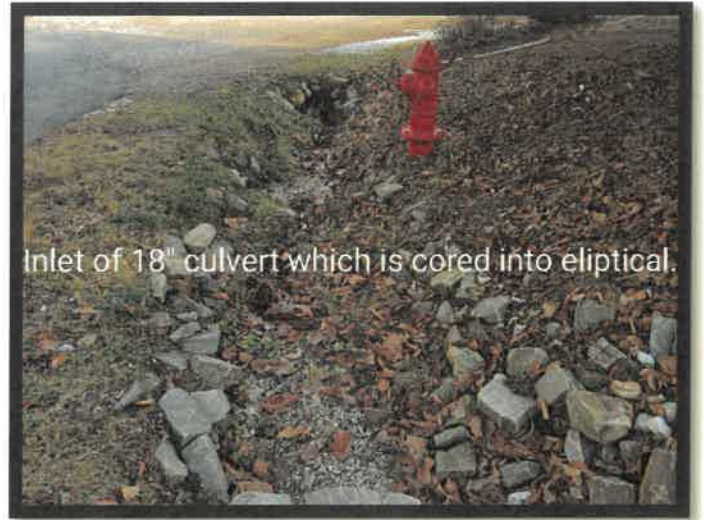
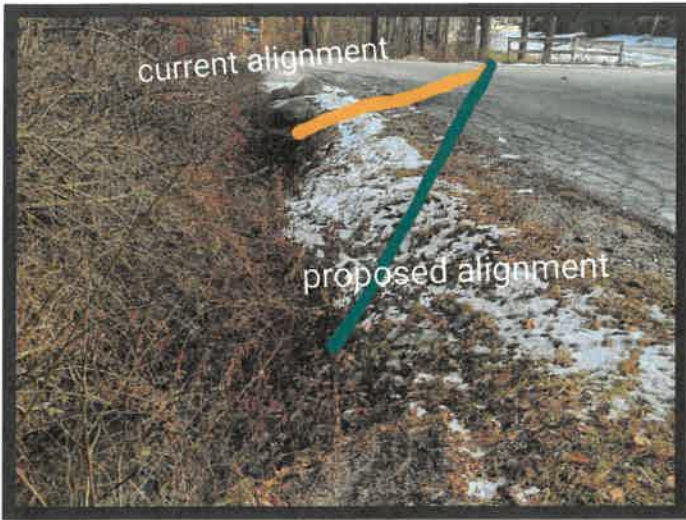
## West Rutland - Clark Hill

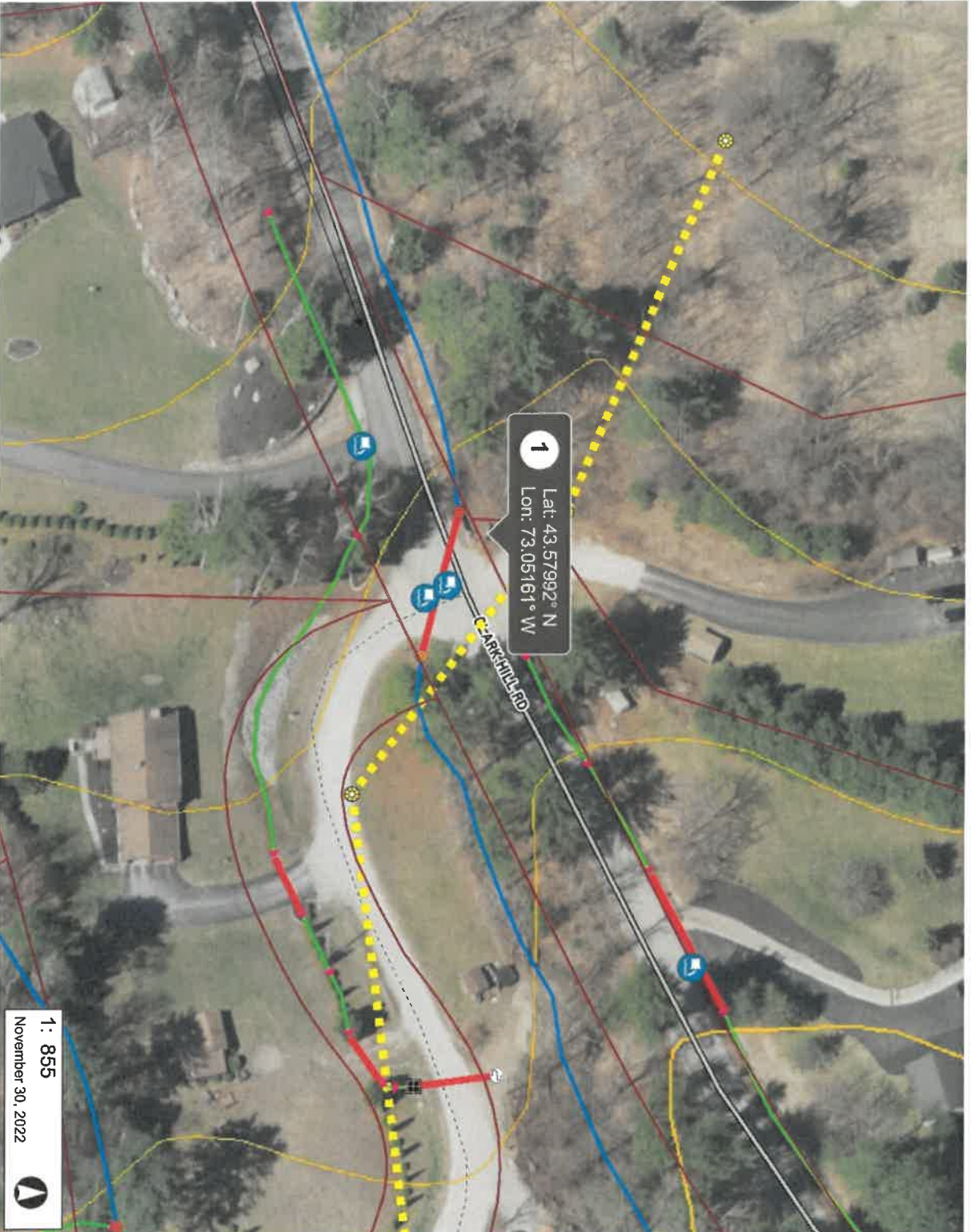
Segment 11630—Replace deteriorating 34"x53" elliptical culvert with a 71'x47" galvanized culvert and create a better alignment with streambed to lessen erosive action against road shoulder. Backfill ditch from existing inlet up to new inlet. Separate 18" culvert to limit opportunity for plugging. Install driveway culvert below existing inlet and drain to ditch below.





# West Rutland - Clark Hill





43.0  
 0 22.00 43.0 Meters  
 WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
 @ Vermont Agency of Natural Resources  
 1" = 71 Ft.  
 1cm = 9 Meters  
 THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

1: 855  
 November 30, 2022

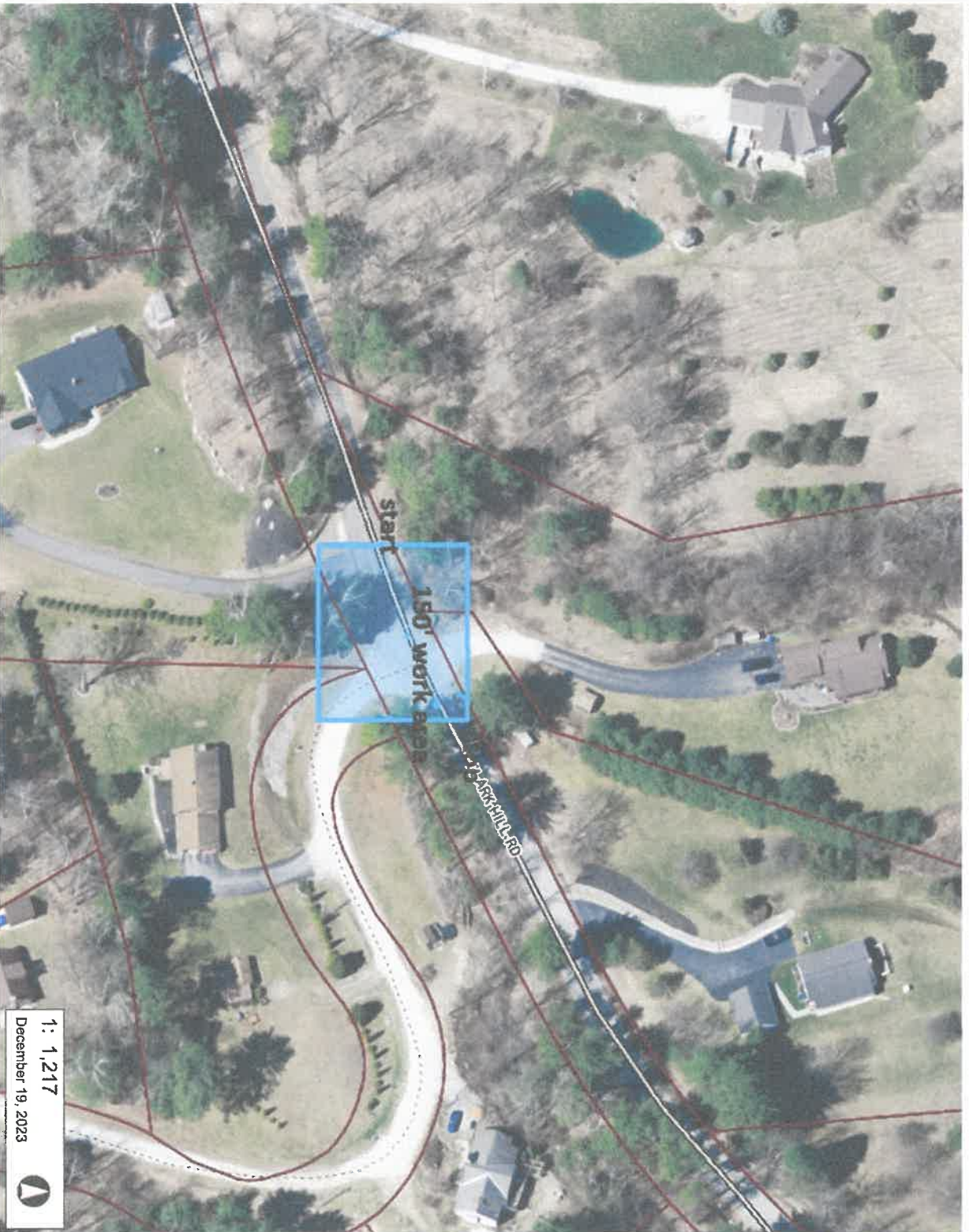


**LEGEND**

- Bridges
- Culvert
- Wetland - VSWI**
  - Class 1 Wetland
  - Class 2 Wetland
  - Buffer
- Existing stormwater point**
  - Pipe Cross (not connected)
  - Catchbasin
  - Dry Well
  - Drop Inlet
  - Grate/Curb Inlet
  - Yard drain
  - Junction Box
  - Stormwater Manhole
  - Outfall
  - Culvert Inlet
  - Culvert outlet
  - Pond outlet structure
  - Treatment feature (see notes)
  - Retrofit
  - Unknown Point
  - Information Point
  - <all other values>
- Existing stormwater line**
  - Storm line
  - Storm line (old Sanitary line)

**NOTES**

Map created using ANR's Natural Resources Atlas



62.0 0 31,000 62.0 Meters

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
© Vermont Agency of Natural Resources

1" = 101 Ft. 1cm = 12 Meters  
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1 : 1,217  
December 19, 2023



**LEGEND**

- Parcels (standardized)
- Roads
  - Interstate
  - US Highway: 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
  - Legal Trail
  - Private Road/Driveway
  - Proposed Roads
- Town Boundary

**NOTES**

Map created using ANR's Natural Resources Atlas



1 : 2,435  
December 19, 2023

124.0 0 62.00 124.0 Meters  
WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
© Vermont Agency of Natural Resources  
1" = 203 Ft. 1cm = 24 Meters  
THIS MAP IS NOT TO BE USED FOR NAVIGATION

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**LEGEND**

- Parcels (standardized)
- Roads
  - Interstate
  - US Highway: 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
  - Legal Trail
  - Private Road/Driveway
  - Proposed Roads
- Town Boundary

**NOTES**

Map created using ANR's Natural Resources Atlas



62.0 0 31.00 62.0 Meters  
 WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
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1: 1,217  
 December 19, 2023



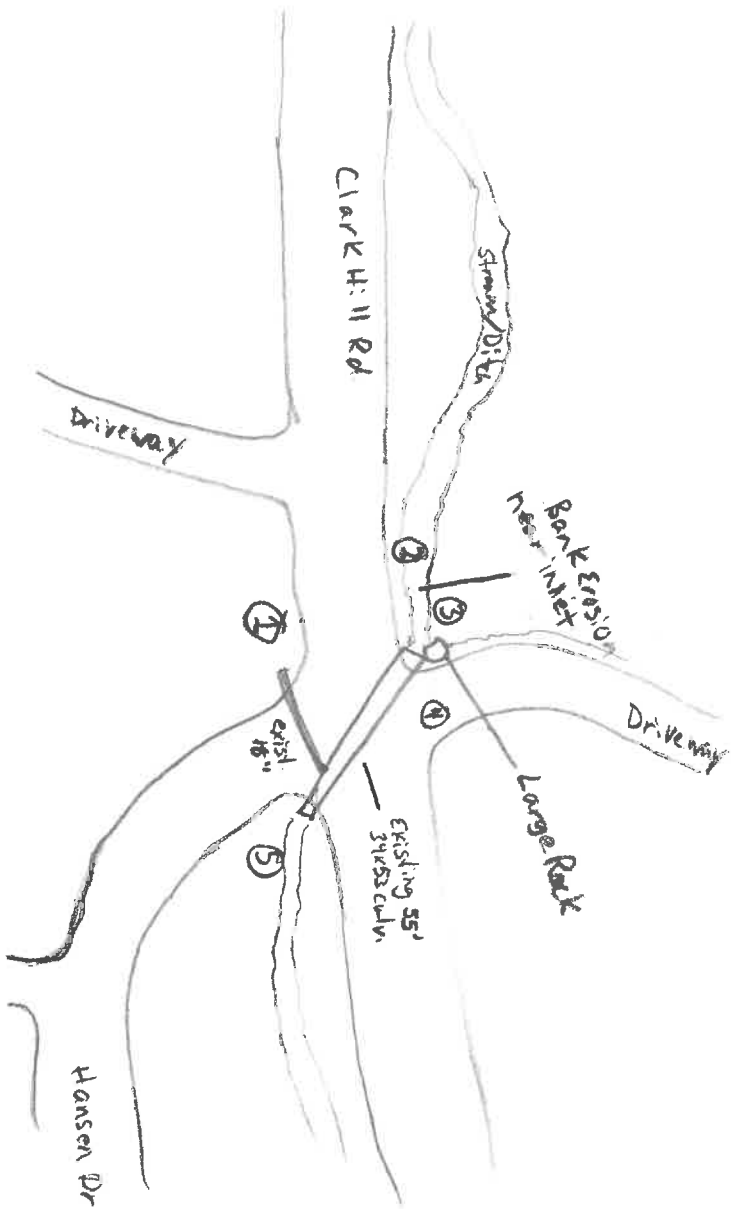
**LEGEND**

- MRGP Outlet Scoring**
  - Does Not Meet
  - Partially Meets
  - Fully Meets
  - Incomplete
  - Non-jurisdictional outlet
  - Not accessible
  - Town outlet not hydro-connected
  - Unable to locate
- MRGP Segment Scoring**
  - Does Not Meet
  - Partially Meets
  - Fully Meets
  - Incomplete Data
  - Closed Drainage
  - Not Connected; Not Town Highway
- Waterbody**
  - Stream
  - Intermittent Stream
- VTRANS State and Town Long**
- VTRANS State Short Structure
- Town Bridge
- Town Boundary

**NOTES**

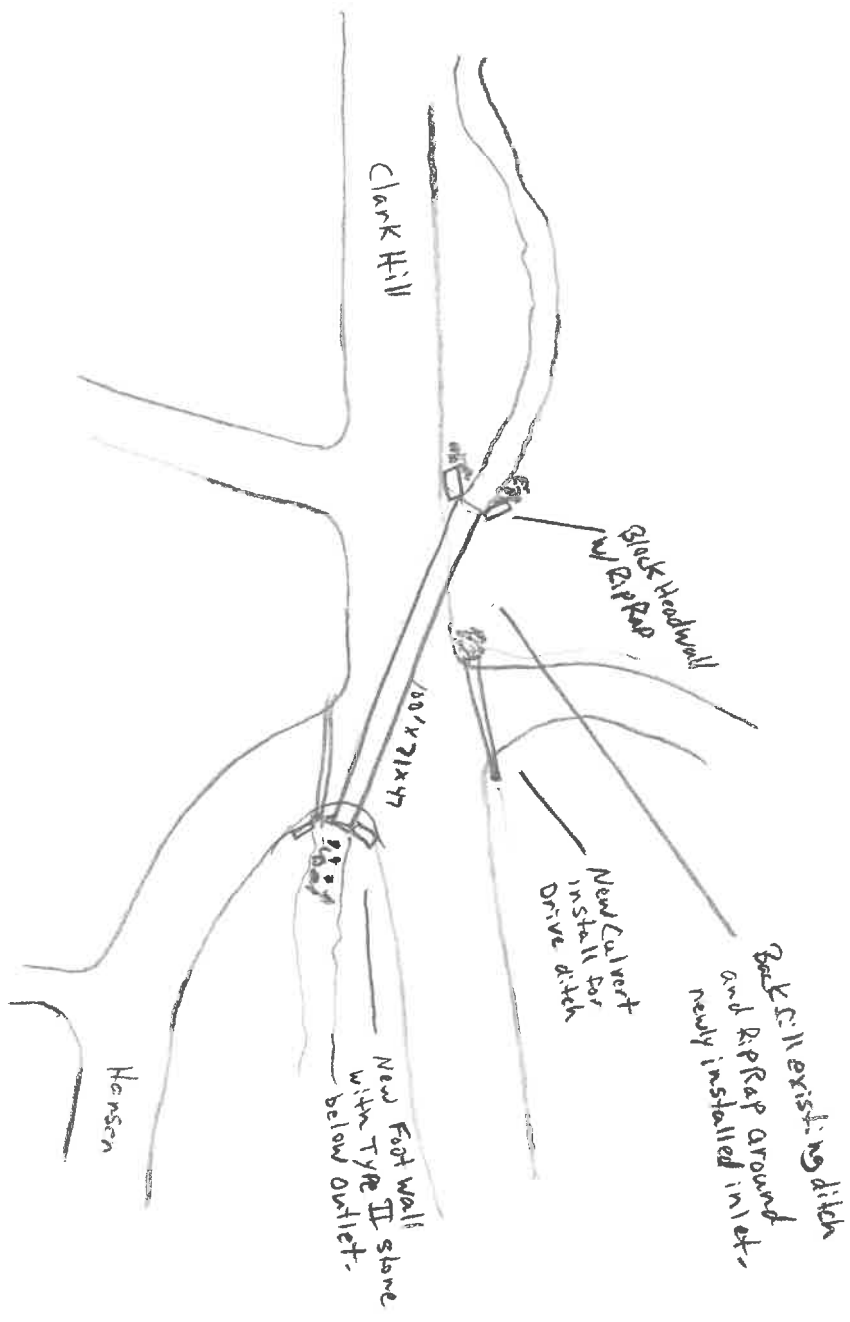
Map created using ANR's Natural Resources Atlas

# Current Conditions



- ① Remove 18" Culvert from larger Culvert to Parallel daylight Point
- ② Install new 71x47 galv. Culvert upstream of existing inlet to lessen Shoulder erosion and better align with Stream. Construct new block headwall
- ③ Backfill existing ditch and inlet to eliminate erosion up to new inlet point.
- ④ Install new Culvert to catch driveway runoff and discharge to ditch on North side of Road.
- ⑤ Install foot wall around both New Culverts and Place type III Stone below Outlet to lower velocity out of Culverts

Proposed Conditions





# Vermont Better Roads Grant Program



## River Management Engineer Support Letter

I am providing this letter of support to the Town/City/Village of WEST RUTLAND for their Better Roads grant application on CLARK HILL ROAD, which will have an impact on

Mile Marker, Road Name/TH Number

Tributary to Clarendon River

Name of River/Stream

Stream Alteration Permit Required for this project:  Yes  No

Upon review of the site, I have determined that the proposed project is eligible for a Stream Alteration Permit. 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,

Signature Joshua Carvajal, RME

### Comments:

Culvert sizing based on Active Channel Width (ACW) measurements and MRGP required standards for intermittent streams, see attached tables for pipe options.