



# FY17 Vermont Better Roads Grant Application

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

Town/Organization: Town of Wells Contact Person(s): Tim Makepeace

Address: Po Box 585 Wells 05774  
Street Address Town Zip

Email: Wellstown Clerk@<sup>comcast</sup>net Phone: (802) 645-0486

DUNS #: 111754508 Fiscal Year End Month (MM): 06

Accounting System:  Automated  Manual  Combination

Please use the suggested documentation checklist below to ensure that all of the relevant items regarding your application have been included.

- Grant application cover sheet (Only submit one)
- Grant application form (One per category/project)
- 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)
- Project Location Map (please show location of affected water)
- Sketch of proposed 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
- Photo(s) of the project area
- Letters of Support (RPC, VTrans District Technical Staff, ANR Rivers and Streams Engineers, etc.)
- If Category C River/Road Conflict or Category D River/Stream Structure or Culvert, you must attach ANR/ACOE consultation



# 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: Wells

Project Name: Tadmer Road

Road Name: Tadmer Road TH #: \_\_\_\_\_ Structure # (if applicable): \_\_\_\_\_

Road Type: Unpaved Uncurbed  
Class 3

Watershed: Wells Brook

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

**Fix eroding slope of road and repair headwalls and wingwalls on existing culverts.**

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):

**Adding 150 feet of stack rock wall with installation along eroding stream bank (maintaining toe of slope). We will be doing headwall and wingwall repairs at existing culverts at a total of five locations tributary to Wells Brook.**

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

**Erosion will be eliminated by placing stack rock walls in three places. By repositioning an existing pipe it will move the water flow away from an existing wingwall and eliminate erosion. We are also repairing wingwall left down stream which will stop the stream bank erosion.**



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 0-50'

Progress to Date:

None

---

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: We are applying for Category A through Rutland Region Planning Commission.

No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTtrans District Technical staff, Basin Planner etc.):

**Agency of Natural Resources, Circuit Rider for the State of VT**

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



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

How do you plan to meet the required 20% match on this grant?:  
 Using our in kind resources such as materials, labor and equipment.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): 5460.46  
 Estimated Total Project Cost (including 20% local match): 27,302.30  
 Estimated Completion Date: 10/01/2016

**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: [Signature] Title: Chair

## Cost Worksheet

**Applicant Name:** Town of Wells

**Project Name:**

<b>Labor</b>	<b>Rate</b>	<b># Hours</b>	<b>Total</b>
David Ricard Sr	\$23.00	80	\$1,840.00
Doug Haskins	\$23.00	80	\$1,840.00
John Bates	\$23.00	80	\$1,840.00
<b>Labor total</b>		<b>240</b>	<b>\$5,520.00</b>

<b>Equipment</b>	<b>Rate</b>	<b># Hours</b>	<b>Total</b>
Exavator 307 cat	\$90.00	80	\$7,200.00
2015 10 Wheeler	\$58.00	50	\$2,900.00
2008 10 Wheeler	\$58.00	60	\$3,480.00
1998 6 Wheeler	\$43.00	40	\$1,720.00
1 Ton	\$10.00	20	\$200.00
Loader 544 John Deere	\$30.00	15	\$450.00
<b>Equipment total</b>		<b>265</b>	<b>\$15,950.00</b>

<b>Materials</b>	<b>Rate</b>	<b>Amount</b>	<b>Total</b>
5" Fractured Stone	\$8.00	170	\$1,360.00
6" under drain	\$1.88	60	\$112.80
Rip Rap	\$11.00	85	\$935.00
Geotextile	\$2.85	320	\$912.00
Grass Seed	\$8.00	300	\$2,400.00
Mulch Hay	\$4.50	25	\$112.50
<b>Materials total</b>			<b>\$5,832.30</b>

<b>Miscellaneous</b>	<b>Rate</b>	<b>Amount</b>	<b>Total</b>
Cut off Saw (Pavement)			
<b>Miscellaneous total</b>			
<b>GRAND TOTAL</b>			<b>\$27,302.30</b>
<b>MATCH</b>			<b>\$5,460.46</b>

**NOTES:**



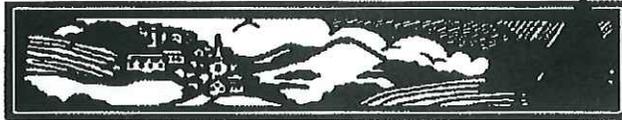
# FY17 Vermont Better Roads Grant Application

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

Town/Organization: Town of Wells Contact Person(s): Tim Makepeace  
Address: Po Box 585 Wells 05774  
Street Address Town Zip  
Email: Wellstown Clerk@comcast.net Phone: (802) 645-0486  
DUNS #: 111754508 Fiscal Year End Month (MM): 06  
Accounting System:  Automated  Manual  Combination

Please use the suggested documentation checklist below to ensure that all of the relevant items regarding your application have been included.

- Grant application cover sheet (Only submit one)
- Grant application form (One per category/project)
- 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)
- Project Location Map (please show location of affected water)
- Sketch of proposed 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
- Photo(s) of the project area
- Letters of Support (RPC, VTrans District Technical Staff, ANR Rivers and Streams Engineers, etc.)
- If Category C River/Road Conflict or Category D River/Stream Structure or Culvert, you must attach ANR/ACOE consultation



April 11, 2016

Mr. Alan May  
Better Backroads Coordinator  
VTrans  
I National Life Drive  
Montpelier, VT 05633

Dear Alan:

This letter supports the application from the Town of Well's Better Roads Grant application for a Category C for a bank stabilization project on Tadmer Road. The river washes out the bank next to the road and this project will improve the road's resiliency.

This work is necessary and vital for the Town's infrastructure and we strongly support this application.

Sincerely,

*Susan d Schreibman*

Susan Schreibman  
Assistant Director



























**Vermont Department of Environmental Conservation**  
**Watershed Management Division**  
Rutland Regional Office  
88 Merchants Row, Suite 430 Asa Bloomer Building  
Rutland, VT 05701-5903

Agency of Natural Resources  
[www.watershedmanagement.vt.gov](http://www.watershedmanagement.vt.gov)

[cell] 802-490-6163  
[fax] 802-786-5915

## AUTHORIZATION TO CONDUCT STREAM ALTERATION ACTIVITIES

Pursuant to Section C.2.2 of the VT Stream Alteration General Permit (Reporting activities not requiring an application)

Project Number: **SA-07-011-2015**

Watercourse: **Tributary to Wells Brook**

Applicant Name: **David Richard - Town of Wells, Highway Department**

Email: [dprm594@hotmail.com](mailto:dprm594@hotmail.com)

Mailing Address: **1064 Vermont Route 30 PO BOX 585 Wells, VT 05774**

Phone: **(802) 645-0486**

Project Location: **Tadmer Hill Road, from Wells Brook Rd up to Pawlet**

Lat/Lon: **N 43.4061 / W 73.1496**

*The Secretary of the Vermont Agency of Natural Resources (VT ANR) has determined that:*

1. This project authorizes under **Section C.2.2.1, ~150 feet of stacked rock wall installation along eroding stream banks (maintaining toe of slope) and headwall/wingwall repairs at existing culverts at a total of five locations.**
2. The proposed activity is eligible for coverage under the VT ANR Stream Alteration General Permit.
3. The proposed activity will meet the terms and conditions of the General Permit provided:
  - a) The project will be completed and approved **as illustrated in the sketch prepared by ANR, as discussed in the field on 5/18/2015, as shown on detail sheets**, and as approved by the Vermont Agency of Natural Resources.
  - b) The project will not adversely affect the public safety by increasing flood hazards.
  - c) The project will not significantly damage fish life or wildlife.
  - d) The project will not significantly damage the rights of riparian owners.
  - e) The project will not obstruct the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction.
  - f) The project is conducted in a manner which minimizes or avoids any discharge of sediment or other pollutants to surface waters in violation of the VT Water Quality Standards.
  - g) The ANR River Management Engineer is notified by phone or email when construction begins and when the project is complete.
  - h) **In-stream working dates for all GP activities are from July 1<sup>st</sup> through October 1<sup>st</sup>**; any in-stream work outside these dates will require an Individual Stream Alteration Permit authorization by the River Management Engineer.
  - i) This authorization has been posted for three days public comment. This authorization constitutes final approval.

If there are any changes in the project plan or deviation in construction from the approved plans, the Permittee must notify the ANR River Management Engineer immediately via phone (802) 490-6163 or email [joshua.carvaial@state.vt.us](mailto:joshua.carvaial@state.vt.us).

*If the project is constructed as you have described, as shown on the above referenced approved plans and according to the above conditions, there is no reason to expect any violation of Vermont Water Quality Standards.*

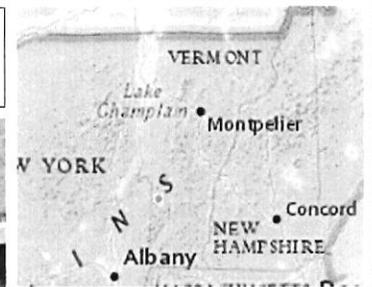
Signed this 20<sup>th</sup> day of July, 2015

David K. Mears, Commissioner  
Department of Environmental Conservation

**This permit expires on October 1, 2016.**

by:

  
Josh Carvajal, P.E. CFM, River Management Engineer



**LEGEND**

- DFIRM Floodways
- DFIRM Preliminary Floodways
- Special Flood Hazard Areas (A Counties)**
  - AE (1-percent annual chance flood)
  - A (1-percent annual chance floodpl)
  - AO (1-percent annual chance zone feet)
  - 0.2-percent annual chance flood ha
- Special Flood Hazard Areas (F DFIRM)**
  - AE (1-percent annual chance flood)
  - A (1-percent annual chance floodpl)
  - AO (1-percent annual chance zone feet)
  - 0.2-percent annual chance flood ha
- Buildings (E911)**
  - VTRANS State and Town Long
  - VTRANS State Short Structure
  - Town Bridge
  - Town Culvert
  - Waterbody
  - Stream
  - Parcels (where available)
  - Town Boundary

1: 1,750  
 July 20, 2015

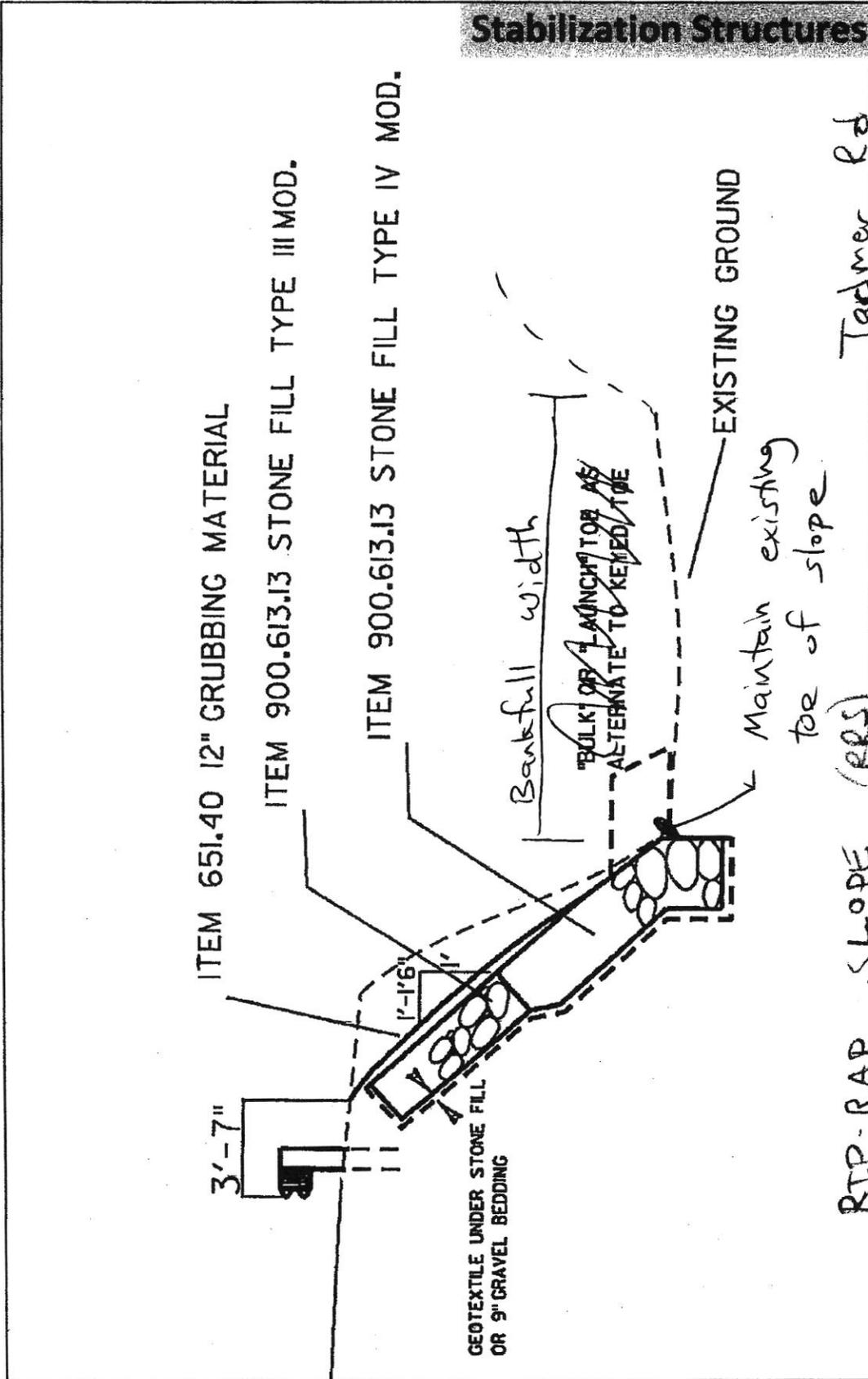
**NOTES**

Map created using ANR's Natural Resources Atlas

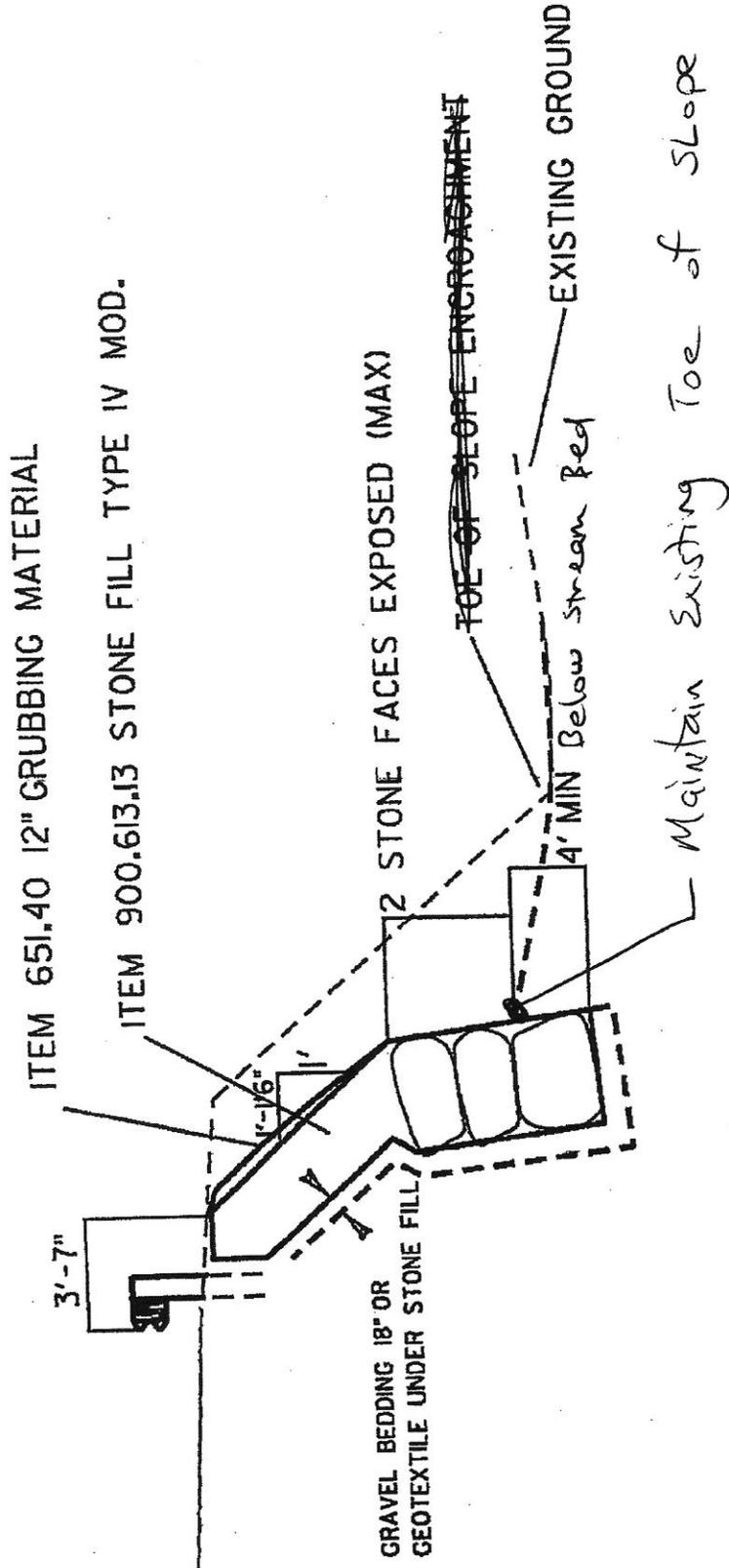
0 0 44.00 89.0 Meters  
 S\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
 Vermont Agency of Natural Resources  
 1" = 146 Ft. 1cm = 18 Meters  
**THIS MAP IS NOT TO BE USED FOR NAVIGATION**

**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.

**Stabilization Structures**



Stabilization Structures



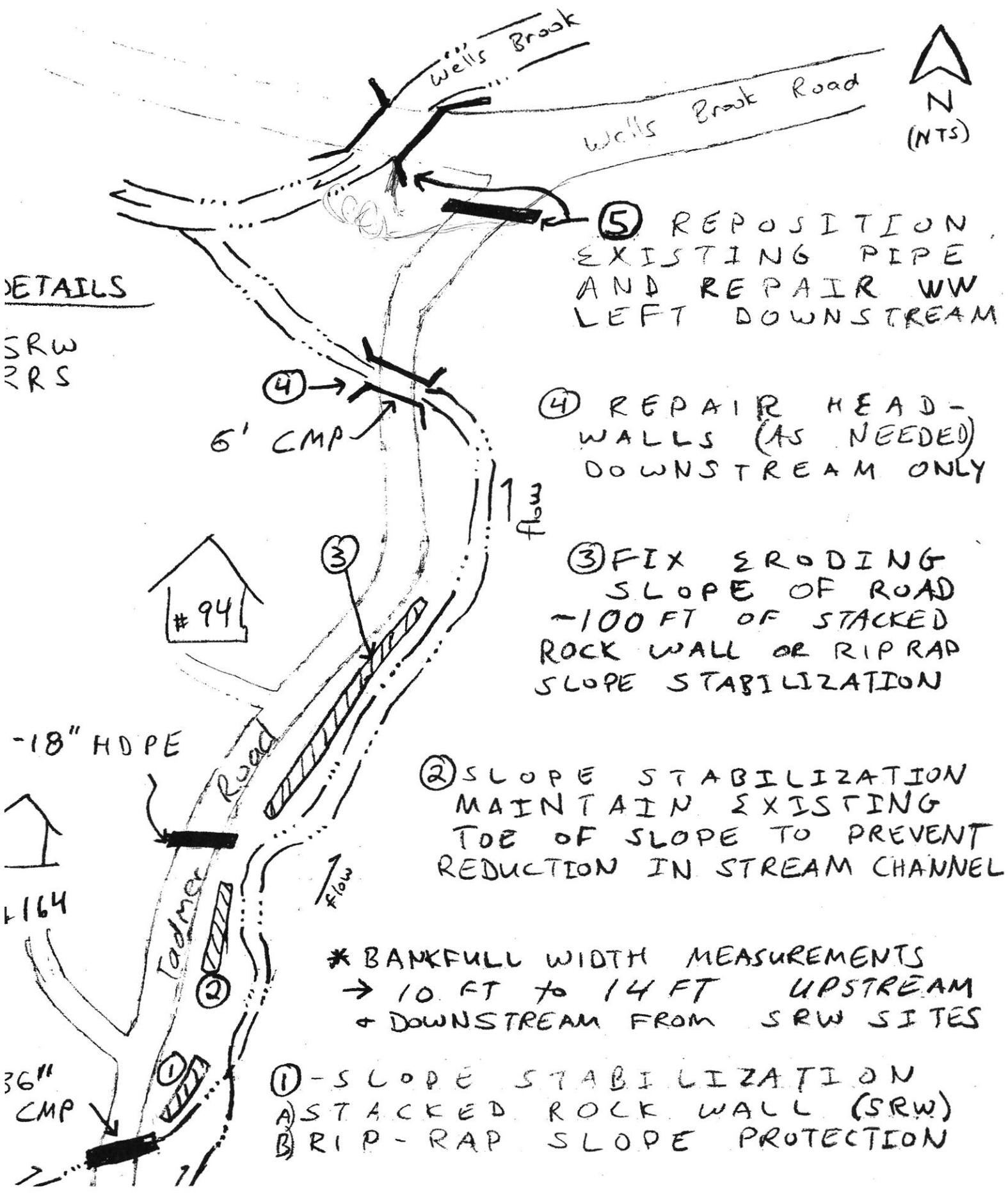
STACKED ROCK WALL (SRW)

Tadmore Rd  
Town of Wells



DETAILS

SRW  
RRS



⑤ REPOSITION EXISTING PIPE AND REPAIR WW LEFT DOWNSTREAM

④ REPAIR HEAD-WALLS (AS NEEDED) DOWNSTREAM ONLY

③ FIX ERODING SLOPE OF ROAD ~100 FT OF STACKED ROCK WALL OR RIPRAP SLOPE STABILIZATION

② SLOPE STABILIZATION MAINTAIN EXISTING TOE OF SLOPE TO PREVENT REDUCTION IN STREAM CHANNEL

\* BANKFULL WIDTH MEASUREMENTS  
→ 10 FT TO 14 FT UPSTREAM  
← DOWNSTREAM FROM SRW SITES

① - SLOPE STABILIZATION  
A) STACKED ROCK WALL (SRW)  
B) RIP-RAP SLOPE PROTECTION