Better Roads
Clean Water You Can Afford

Received
APR 15 2016
VTrans
PDD-LTF

VTrans
VERMONT
AGENCY OF NATURAL RESOURCES

FY17 Vermont Better Roads Grant Application

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

Town/Organization: Brookline, Vermont Contact Person(s): E. Mark Bills or Archie Clark
((mailing) P.O. Box 403, Newfane VT 05345)
Address: 734 Grassy Brook Rd Brookline 05345
Street Address *Town* *Zip*

Email: brook763@comcast.net Phone: (802) 365 - 4648
broktreasurer@comcast.net
DUNS #: 041222225 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 (2 before)
- ☐ Letters of Support (RPC, VTrans District Technical Staff, ANR Rivers and Streams Engineers, etc.) - see note + copy of card attached
- ☐ If Category C River/Road Conflict or Category D River/Stream Structure or Culvert, you must attach ANR/ACOE consultation N/A

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 Brookline Vt.

Project Name: Ledge Removal/Create a better Ditch

Road Name: Grassy Brook TH #: _____ Structure # (if applicable): N/A

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

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

Watershed: Natural springs; weather related run off

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

This Roadway has run off & spring waters constantly eroding into road edge for lack of ditches. Ditch now is ledge.

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):

Use of a Hydralic Hammer on an Excavator to break up and remove ledge problem. This will create a ditch for water to flow into.

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

This water erosion will be eliminated by creating a new ditch carved into the ledge coming from 2 directions into a new 18" culvert.

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:
Plans are being made for project Improvement

Is there an emergency reason this project must be completed quickly? If yes, please explain:
This project is not considered emergency but would be a definate fix to a long time existing erosion issue that would make a better back road

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: Identified No Not officially

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.):
Todd Eaton - circuit ryder. - Archie Clark Road commissioner Town of Brookline.

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).
Yes. This project is completely in the Towns R.O.W.

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).
Road foreman will be involved with this project. Job will be put out to bid.

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Describe how the grant funds will be spent and/or attach a project budget: The grant funds will be spent on ledge removal and a 40" x 18" culvert replacement.

How do you plan to meet the required 20% match on this grant?: The Town of Brookline has budgeted monies set aside for road improvement issues.

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

Estimated Total Project Cost (including 20% local match): $25,892

Estimated Completion Date: November 30, 2016

REQUIRED ATTACHMENTS: Page Reference:

- ☑ Itemized Cost Estimate (labor, equipment, materials) (A)
  (For assistance, call Better Backroads at 802-828-4585)
- ☑ Project Location Map (B)
  (Please show location of affected water; 1:12,000 USGS map, if possible)
- ☑ Sketch of proposed erosion control measures, including: (C)
  - ☐ 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. (D)
- ☐ Agreement for Entry and/or Deed of Easement (if project is outside Town ROW). N/A
- ☐ If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer. N/A
- ☑ Other appropriate supporting documents. (E)

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: Bernadine Hoard Title: Selectboard Chair

Cost Estimate Worksheet

Town and Road Name:

Project Name: LEDGE REMOVAL/Create better ditch

Labor	Rate	# Hours	Total (Rate x Hours)
TRAFFIC CONTROL (2 flag persons)	$21 - per hr	52	$1,092 -
ROAD CREW #1 (Foreman)	17 - per hr	52	884 -
ROAD CREW #2 (Assistant)			
		Labor Total	1,976 -

Equipment	Rate	# Hours	Total (Rate x Hours)
CAT 315 Excavator w/ Hammer	250/hr	40	10,000 -
CAT 315 Excavator	125/hr	52	6500 -
14 cy Truck	90/hr	45	4050 -
		Equipment Total	20,550 -

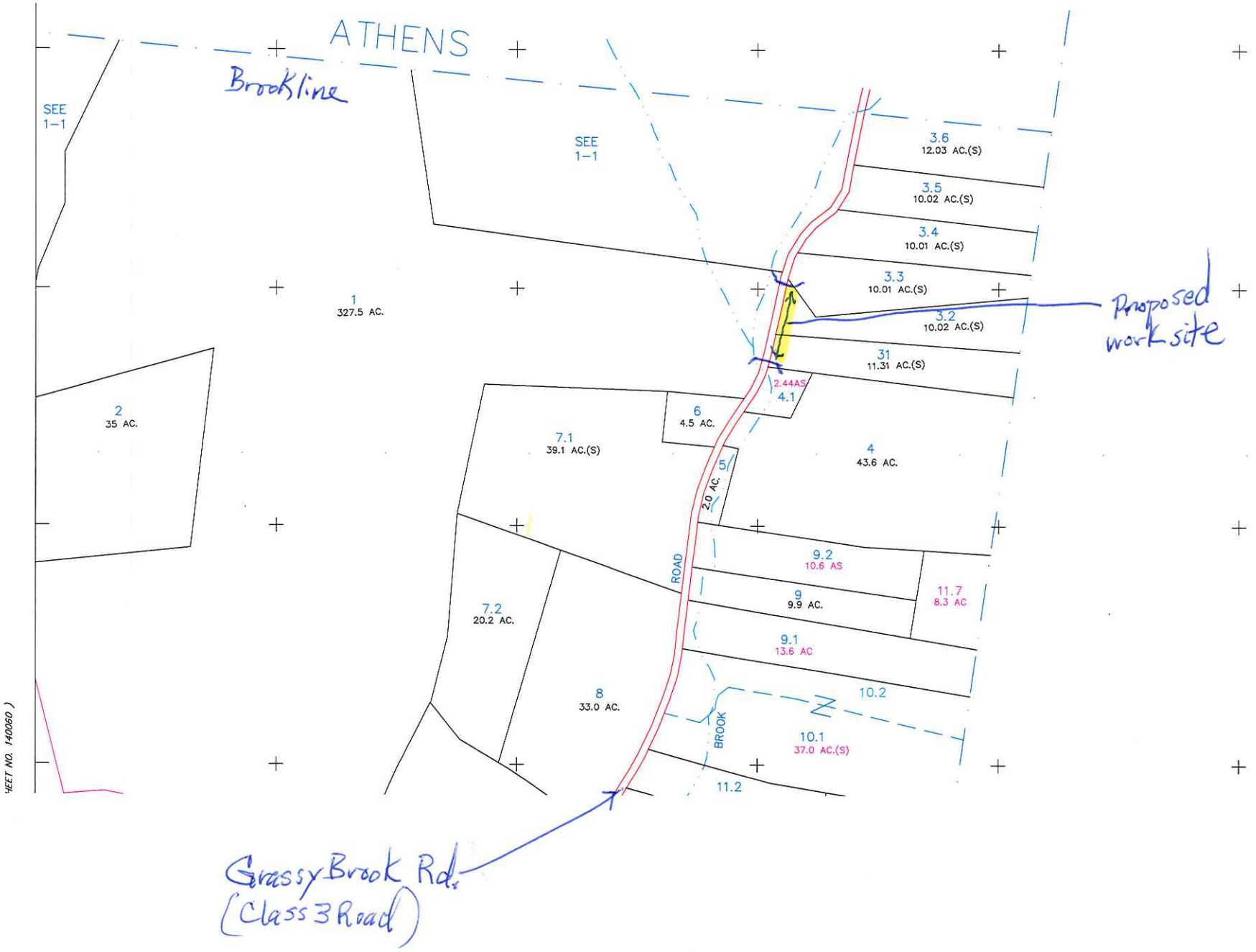
Materials	Rate	Amount	Total (Rate x Amount)
Base Gravel	19/cy del	60 cy	1140 -
Crushed Gravel	18/cy del	56 cy	1008 -
4"-6" Ditch Stone	29/cy del	42 cy	1218 -
		Materials Total	3,366 -

Miscellaneous	Rate	Amount	Total (Rate x Hours)
		Miscellaneous Total	

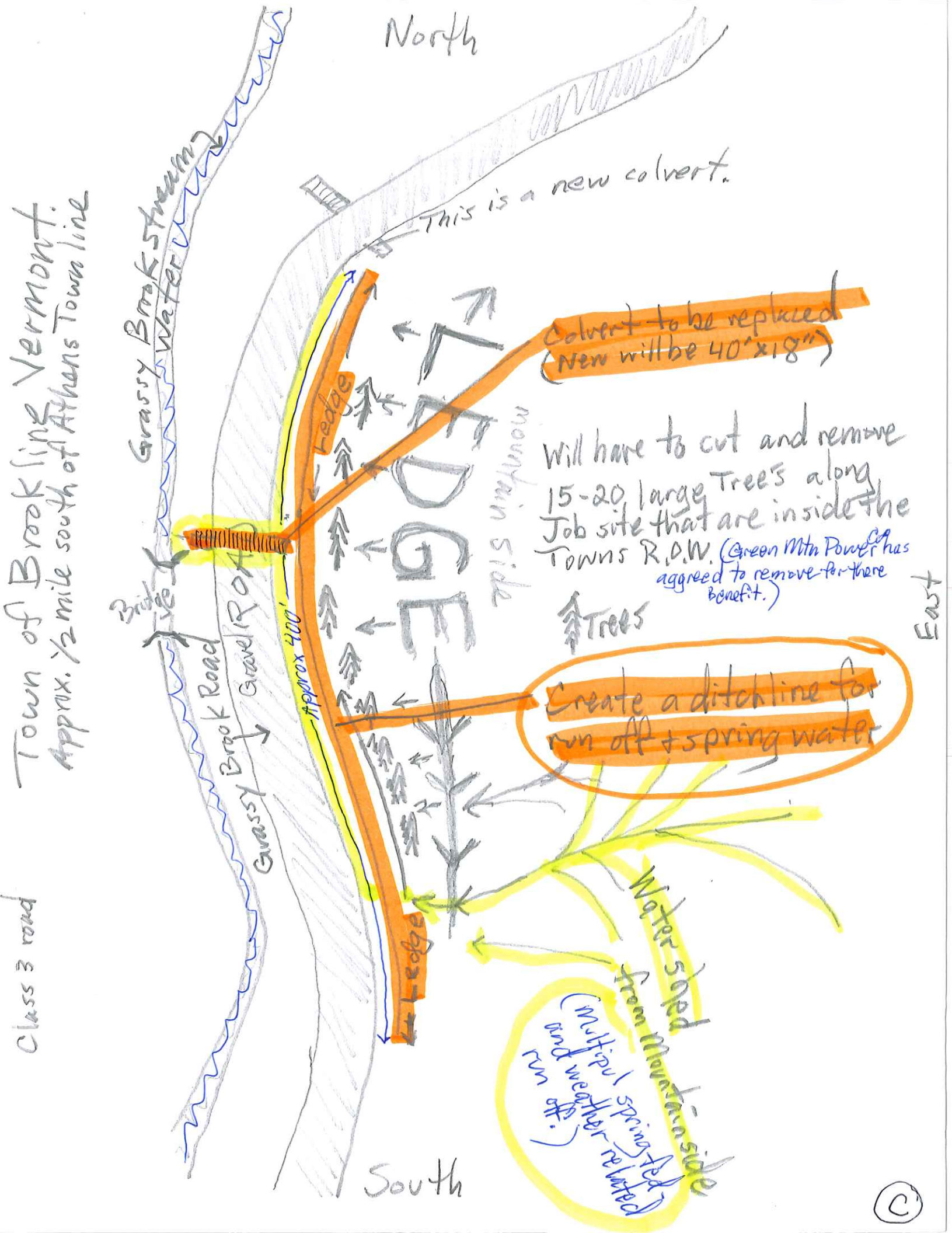
Grand Total 25,892 -

Match $4,000 -

(A)


ATHENS
Brookline
SEE 1-1
SEE 1-1
1
327.5 AC.
2
35 AC.
3.6
12.03 AC.(S)
3.5
10.02 AC.(S)
3.4
10.01 AC.(S)
3.3
10.01 AC.(S)
3.2
10.02 AC.(S)
31
11.31 AC.(S)
2.44AS
4.1
6
4.5 AC.
7.1
39.1 AC.(S)
5
2.0 AC.
4
43.6 AC.
ROAD
9.2
10.6 AS
9
9.9 AC.
11.7
8.3 AC
9.1
13.6 AC
10.2
7.2
20.2 AC.
8
33.0 AC.
BROOK
10.1
37.0 AC.(S)
11.2
Proposed work site
Grassy Brook Rd.
(Class 3 Road)
SHEET NO. 140060)

(a)


North
South
East
Town of Brookline Vermont.
Approx. 1/2 mile south of Athens Town line
Class 3 road
Grassy Brook Stream
Water
This is a new colvert.
Colvert to be replaced
(New will be 40'x18")
Ledge
LEDGE
mountain side
Will have to cut and remove
15-20 large Tree's along
Job site that are inside the
Towns R.O.W. (Green Mtn Power Co has
aggreed to remove for there
Benefit.)
Trees
Bridge
Gravel Road
Approx 400'
Grassy Brook Road
Create a ditchline for
run off + spring water
Water shed
from Mountain side
(Multipul spring fed
and weather related
run off.)
Ledge
C

(D)

(D)

Grassy Brook Road. Brookline Vt. 05345
Approx. ½ mile south of Town line (Athens)

Remove by Green Mtn Power.

- Cut trees
- Chip up or remove trees
- remove stumps
- Truck away stumps
- Hydrolic Hammer
- remove ledge
- Truck away ledge
- Traffic control.
- replace excisting Colvert, to 18" standard size 40' length.

Grant would be used for:
To Establish Approx. 400 feet of drainage ditch on roadside to help eliminate continuose errosion issues. to side edge of road.
Out of the Approx 400ft of new ditch line - 215' would be south of purposed colvert replacement. 185' would be north of proposed colvert replacement.

(E)

VERMONT

Agency of Transportation

Todd Eaton, Circuit Rider
[cell phone] 802-353-0110
[ttd] 800-253-0191
[email] todd.eaton@vermont.gov

State of Vermont
Vermont Local Roads
1716 US Route 302
Berlin, VT 05633-5002
vtrans.vermont.gov

VTrans Working to Get You There

Mr. Eaton was consulted and is familiar with town's plans for this project.

E

2 xtra photos – in color