Request for Quote (RFQ)

Labor and Materials for Improvements to the Bombardier Road Camel's Hump State Park, Bolton VT

July 12, 2018

Date Issued:	**July 12, 2018**
Non-Mandatory Project Showing:	**July 23, 2018**
Questions Deadline:	**July 30, 2018**
Answers Posted by:	**August 1, 2018**
Bids Due:	**August 6, 2018**

Primary Contact: **Jason Nerenberg**

Bids to:

VT Department of Forests, Parks & Recreation
Attn**:** Jason Nerenberg
111 West Street
Essex Junction, VT 05452-4695

State of Vermont
Vermont Agency of Natural Resources
Department of Forests, Parks and Recreation (FPR)
1 National Life Drive, Davis 2
Montpelier, VT, 05620-3801

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INVITATION TO SUBMIT QUOTE
DEPARTMENT OF FORESTS, PARKS AND RECREATION
STATE OF VERMONT

Qualified professionals are invited to bid on **Bombardier Road Improvements**, to include labor and materials at **Camel's Hump State Park** in **Bolton**, Vermont.

Sealed Bids will be received by the Department of Forests, Parks and Recreation until **2:00 pm** on **August 6, 2018** at the following address:

Department of Forest, Parks & Recreation
111 West Street
Essex Junction, VT 05452-4695

Please note "**Bombardier Road Improvements"** on the outside of the proposal envelope. Faxed or e-mailed proposals will not be accepted.

Attached with this invitation are the project documents.

A **non-mandatory pre-proposal informational meeting** will be held on **July 23, 2018** beginning at **8:30 am.** The meeting will take place at the Catamount Trail Parking Area at the Base of Bombardier Woods Road, Duxbury Road, Bolton, VT. This parking area is approximately .3 miles East of the intersection of Honey Hollow Road and Duxbury Road in the town of Bolton.

The project site is gated. Potential bidders interested in inspecting the project site may contact Jason.nerenberg@vermont.gov for the gate combination.

Your attention is directed to the special instructions regarding the bid proposal submissions. Follow the instructions to bidders carefully.

Questions concerning this Request for Proposal should be directed to the Project Manager, **Jason Nerenberg, Stewardship Forester**, and may be contacted at **802-498-4342 or Jason.nerenberg@vermont.gov**.

Questions will be received via e-mail only until July 30th, 2018. Questions generated by potential bidders and sent to the Project Manager will be **posted with answers by 4:30 pm on August 1, 2018 at the following website:**
http://fpr.vermont.gov/state_lands/management_planning/documents/district_pages/district_3/camels_hump_sp

INSTRUCTIONS FOR FIRMS SUBMITTING QUOTES

1. Read all provided materials carefully.

2. Complete all items on proposal form.

3. Provide additional information pertaining to the selection criteria for the Selection Committee's evaluation as you deem appropriate and as may be requested by this RFP.

4. Submission requirements:

a) Submit one (1) hard copy of BID PROPOSAL in a sealed envelope (mark envelope **"Bombardier Road Improvements"** by **2:00 p.m., August 6th, 2018** to the Vermont Dept. of Forests, Parks and Recreation, 111 West Street, Essex Junction, VT 05452-4695.

REMEMBER TO INCLUDE ALL REQUIRED ATTACHMENTS.

In the interest of reducing paper consumption and waste, bidders are asked to submit within the following guidelines.

Proposals and attachments should be double sided, on pages no larger than 8.5x11". Packets of submitted material shall be bound by ONLY a staple or clip on upper left hand corner of sheet.

Binders and plastic covers should not be used. Glossy and other hard to recycle material are discouraged

BID PROPOSAL
Labor and Materials
Bombardier Road Improvements
Camel's Hump State Park, Bolton, Vermont

TO: STATE OF VERMONT
Department Forests, Parks and Recreation
111 West Street
Essex Junction, Vermont **05452-4695**

DATE:_____

The undersigned proposes to provide all labor and materials necessary to **improve the Bombardier Road in Camel's Hump State Park with the goal of reducing storm-water inputs to Preston Brook**. These services shall be provided in accordance with the requirements of this Request for Proposal and its attachments prepared by the Department of Forests, Parks and Recreation, dated **7/12/18**.

The total fee proposed for basic services inclusive of all allowances is a Maximum Limiting amount of:

MAXIMUM LIMITING AMOUNT:

_____
(Written)

($_____)
(Figures)

The undersigned certifies that they are familiar with the contents of this Proposal and that they have examined the site and accept the existing conditions as those under which the work will be done.

Basis of award shall be as specified in the request for proposal.

The undersigned acknowledges the right of the Owner to accept or reject any or all Proposals, or to waive any informalities in the bidding.

The undersigned further agrees:

1. To hold their bid open for sixty (60) days after this day of Bid Opening.
2. To accept the provisions of the "Instructions to Bidders."
3. To enter into and execute a contract, if awarded on the basis of this proposal within ten (10) calendar days of notification of award.
4. To accomplish the work in accordance with the Bid Documents.
5. To complete the work in accordance with the specified schedule.
6. The amount of compensation paid to the undersigned for extra work and change orders in one of the following manners as directed by the Owner.

    A. A price agreed upon between the Owner and the Contractor.
    B. A price determined by adding 15% for overhead and profit to the total direct cost of any extra work.

The undersigned has attached:

1. Itemized price list

The undersigned acknowledges receipt of the following Addenda:

Addendum No.:_____ Dated:_____

Addendum No.:_____ Dated:_____

Corporate Seal
(If Bidder is
a Corporation)

FIRM NAME: _____

ADDRESS: _____

STATE OF CORPORATION:_____

SIGNATURE: _____

PRINT OR TYPE NAME: _____

TITLE: _____

TELEPHONE NO.:_____

E-MAIL ADDRESS:_____

NOTE: If Bidder is a Partnership, give full names of all Partners.

Itemized Price List for: Bombardier Road Improvements

Item	Description	Quantitiy	Unit	Unit Price	Total
1	All labor, equipment and materials required to complete Bombardier Road Improvements as outlined in the "General Conditions" and "Specific Conditions" of the *Scope of Services*.	1	Lump Sum		
	Subtotal Lump Sum Bid				
	CONTINGENT ITEMS:				
2	Additional Crushed stone/aggregate plant mix. In place, shaped, and smoothed- Contingent (if needed)	up to 5	14 cy load		
3	Additional 12"- Crushed Stone. In place, shaped, and smoothed- Contingent (if needed)	up to 5	14 cy load		
4	Additional 5"- Crushed Stone. In place, shaped, and smoothed- Contingent (if needed)	up to 5	14 cy load		
5	Crusher-run gravel for surfacing road. In place, shaped, and smoothed- Contingent (if needed)	up to 5	14 cy load		
	Total Bid*				

*Total Bid should be the total payment amount requested if ALL “contingent” items are required IN ADDITION TO the SUBTOTAL LUMP SUM BID. This is the number that should be entered into the “MAXIMUM LIMITING AMOUNT” line on the BID PROPOSAL FORM.

PLEASE INCLUDE THIS ITEMIZED PRICE LISTE WITH THE BID PROPOSAL FORM

Material Substitutions:

FPR has requested the use of four different stone and gravel materials. Please describe below any substitutions for the specific materials required:

- Crushed stone/aggregate plant mix-
- 12”- crushed stone-
- 5”- crushed stone-
- Crusher-run gravel-

END OF PROPOSAL

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PROJECT BACKGROUND

The Bombardier Road is a multi-purpose forest highway in Camel's Hump State Park, in the town of Bolton. The road is used by hikers, skiers, and for forest management purposes. Given more severe storm events in recent years, it is important to improve road infrastructure to insure resilience and mitigate stormwater impacts to surface water. The goal of this projects is to bring the road into full compliance with the *Acceptable Management Practices for Maintaining Water Quality on Logging Jobs in Vermont (*AMPs) through the installation of ditch culverts, rock-lined ditches, and armored broad-based dips. In many cases, the road will be brought to a higher standard than the AMPs.

SCOPE OF SERVICES

General Conditions

Scope of work also includes provisions of Attachment "C" State of Vermont, Customary State Contract Provisions, which is attached to and considered part of this RFP.

Completion of this project shall be by **November 1, 2018**

The State Shall:

Flag the locations of work to be performed and conduct a pre-work meeting with the contractor to explain the work and answer any questions.

Procure and deliver all necessary culverts to the bottom of the Bombardier Road.

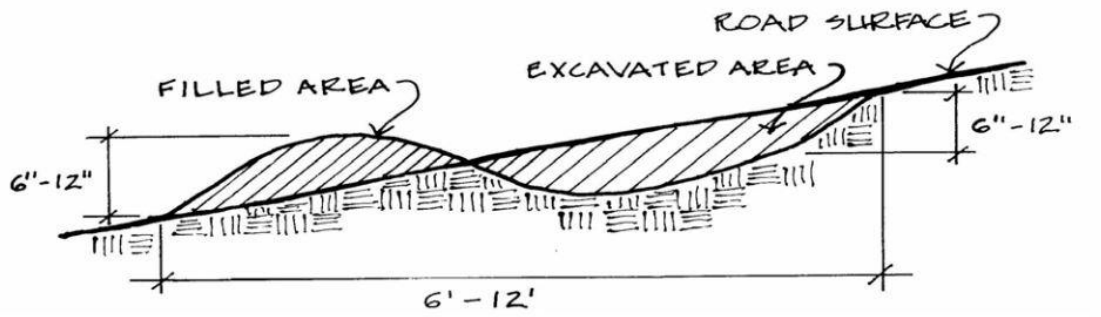
The Contractor shall:

Provide all materials (except for culverts), equipment, and labor needed to improve the Bombardier Road in accordance with the detailed scope of work below.

The work shall consist of:

- Culvert Work: Installing 18 new 18" culverts ranging in length from 20' to 38'; and 2 new 24" culverts ranging from 26' to 30'.
    - All culverts shall be installed with 14 cubic yards of crushed stone/aggregate plant mix compacted around culvert in 1 foot lifts. Culvert shall be level with the bottom of the ditch and have minimum coverage of 12" of road surface. Outlets of culverts shall not be channelized. Culvert outlets should be constructed to spread water out upon exit.
    - All culverts shall be installed with 1 cubic yard of 12"- crushed stone to armor the inlet and outlet and if necessary to plug the ditch downhill of the culvert.
- Ditch Work: Cleaning and shaping 1905 feet of roadside ditch
    - All ditches should follow the basic design suggested in the Vermont Better Backroads Manual. Where possible, ditches should be at least 18" deep, 24"

wide at the base, and have sloped sides to a total minimum of 6 feet in width.
    - Ditches over 5% in slope will be lined with 12”- crushed stone, approximately .25 cubic yards of stone per linear foot of ditch. In accordance with the Vermont Better Backroads Manual.
    - All ditches not lined with stone shall be seeded and mulched with straw and conservation mix.
    - The *Specific Conditions* of the scope of work identifies which stretches of ditch will be stone lined and which will be seeded and mulched
    - 20 armored check dams shall be installed in roadside ditches. Each check dam will consist of 1 cubic yard of 12”- crushed stone.
    - 9 sediment retention/settlement ponds will be installed at the end of ditch lines. Size or pond will be appropriate to contain ditch flow. 2 cubic yards of 12”- crushed stone will armor the outlet of each pond.
- Broad Based Dips: Installing 38 stone-lined broad based dips in the road
    - All broad-based dips shall follow the basic design suggested in the Vermont Better Backroads (see figure 1). Manual and cross the trail at least at a 30 degree angled.
    - Each waterbar should be armoed with 5 cubic yards of 5”- crushed stone added to the face of the berm. A smooth transition from the excavated area to the filled ares is needed to leave the road drivable.



WATERBAR CROSS-SECTION

Vermont Better Backroads Manual 51
Clean Water You Can Afford

Figure 1: Design of armored broad based dip.
http://vtrans.vermont.gov/sites/aot/files/highway/2009%20Better%20Backroads%20Manual.pdf.

Specific Conditions- Site numbers reference *Project Location Map* on p. 17. At present the site is marked with flagging. Blue flags indicate locations of cross-drainage structures- either culverts or stone lined broad-based dips. Pink flags indicate ditch work.

Site 1 – Install new 18”x 30’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.

Site 2- Clean and shape 120’ of ditch.
Line 120’ ditch with stone. 30 cy 12”- crushed stone.
Install stone-lined retention pond at bottom of ditch. 2 cy 12”- crushed stone.
Install three stone check dams in ditch to slow ditch flow. 3 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 3- Install new 24”x 26’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.

Site 4- Install 50’ of new ditch.
Seed and mulch 50’ ditch.

Site 5- Clean and shape 85’ of ditch.
Line 85’ ditch with stone. 21.25 cy 12”- crushed stone.
Install two stone check dams in ditch to slow ditch flow. 2 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 6- Clean and shape 45’ of ditch.
Line 45’ of ditch with stone. 11.25 cy 12”- crushed stone.
Install stone-lined retention pond at bottom of ditch. 2 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 7- Clean and shape 120’ of ditch.
Line 120’ ditch with stone. 30 cy 12”- crushed stone.
Install 18” x 30’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 8- Install new 18”x 36’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Clean and shape 150’ of ditch.
Line 150’ of ditch with stone. 37.5 cy 12”- crushed stone.
Install three stone check dams in ditch to slow ditch flow. 3 cy 12”- crushed stone.
Install stone-lined retention pond at bottom of ditch. 2 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.
Install 12” minus stone around inlet and outlet of existing 36” culvert. 7 cy 12”- crushed stone.

Site 9- Install new 18”x 30’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 10- Install new 18”x30’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Clean and shape 120’ of ditch.
Line 120’ of ditch with stone. 30 cy 12”- crushed stone.
Install three stone check dams in ditch to slow ditch flow. 3 cy 12”- crushed stone.
Install stone-lined retention pond at bottom of ditch. 2 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 11- Install 18”x30’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Clean and shape 100’ of ditch.
Seed and mulch 100’ of ditch.
Clean and shape 30’ of ditch.
Line 30’ of ditch with stone. 7.5 cy 12”- crushed stone.
Install stone-lined retention pond at bottom of ditch. 2 cy 12”- crushed stone.

Site 12- Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 13- Install 18”x36’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Clean and shape 50’ of ditch.
Line 50’ of ditch with stone. 12.5 cy 12”- crushed stone.
Install one stone check dams in ditch to slow ditch flow. 1 cy 12”- crushed stone.
Install stone-lined retention pond at bottom of ditch. 2 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 14- Install three stone-lined broad-based dips in road. 15 cy 5”- crushed stone.

Site 15- Clean and shape 100’ of ditch
Seed and mulch 100’ of ditch
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.
Clean and shape 60’ of ditch
Seed and mulch 60’ of ditch
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 16- clean and shape 150’ of ditch
Seed and mulch 150’ of ditch
Install two stone-lined broad-based dip in road. 10 cy 5”- crushed stone.

Site 17- Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.
Clean and shape 220’ of ditch
Seed and mulch 220’ of ditch

Site 18- Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.
Clean and shape 70’ of ditch
Line 70’ of ditch with stone. 17.5 cy 12”- crushed stone.

Site 19- Install one stone check dam in existing ditch to slow ditch flow. 1 cy 12”- crushed stone.
Install stone-lined retention pond at end of ditch. 2 cy 12”- crushed stone.
Do not disturb remaining ditch.
Rebuild headwall at inlet and outlet of existing culvert. 2 cy 12”- crushed stone.

Site 20- Clean and shape 20’ of ditch.
Seed and mulch 20’ of ditch.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 21- Install 18”x24’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Clean and shape 60’ of ditch.
Seed and mulch 60’ of ditch.

Site 22- Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 23- Install 18”x24’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.
Install one stone check dam in existing ditch. 1 cy 12”- crushed stone.
Install stone-lined retention pond at bottom of ditch. 2 cy 12”- crushed stone.

Site 24- Install 18”x26’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Install two stone check dams in existing ditch. 2 cy 12”- crushed stone.

Site 25- Install 18”x24’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Clean and shape 165’ of ditch.
Seed and mulch 165’ of ditch.

Site 26- Install two stone-lined broad-based dips in road. 10 cy 5”- crushed stone.

Site 27- Clean and shape 140’ of ditch.
Line 140’ of ditch with stone. 35 cy 12”- crushed stone.
Install four stone check dams in ditch to slow ditch flow. 4 cy 12”- crushed stone.
Armor washed out section of road with stone found on site.

Site 28- Install 18”x28’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Install two stone-lined broad-based dips in road. 10 cy 5”- crushed stone.

Site 29- Install 18”x24’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.

Site 30- Install 24”x30’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 31- Install 18” x 24’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Install three stone-lined broad-based dips in road. 15 cy 5”- crushed stone.

Site 32- Clean and shape 50’ of ditch
Seed and mulch 50’ of ditch
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 33- Install 18”x38’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Install two stone-lined broad-based dips in road. 10 cy 5”- crushed stone.

Site 34- Install 18”x28’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.

Site 35- Install 18”x24’ culvert. 14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.
Install two stone-lined broad-based dips in road. 10 cy 5”- crushed stone.

Site 36- Install 18”x26’ culvert14 cy crushed stone/aggregate plant mix. 1 cy 12”- crushed stone.

Site 37- Install two stone-lined broad-based dips in road. 10 cy 5”- crushed stone.

Site 38- Install stone-lined broad-based dip in road. 5 cy 5”- crushed stone.
Install stone-lined retention pond at outlet of dip. 2 cy 12”- crushed stone.

Project Summary:

18 new 18” culverts (14 yards plant mix per culvert)	252 cy plant mix
2 new 24” culverts (14 yards plant mix per culvert)	28 cy plant mix
Install stone at inlet/outlet of each new culvert (1 cy/ culvert)	20 cy 12”- crushed stone
Armor inlet/outlet of two existing culverts	9 cy 12”- crushed stone
Ditch cleaning and shaping	1905 linear feet
Seed and mulch ditch	975 linear feet
Stone lining cleaned ditches (.25 yards per foot)	930 linear feet /232.5 cy 12”- crushed stone

38 stone-lined broad-based dips	(5 yard/ditch)	190 cy 5”- crushed stone
20 armored check dams	(1 yard/dam)	20 cy 12”- crushed stone
9 retention ponds (2 yards/pond)		18 cy 12”- crushed stone

Materials Summary

Crushed stone/aggregate plant mix:	280 cy
12”- crushed stone	299.5 cy
5”- crushed stone	190 cy

SCHEDULE

Non-mandatory Project Showing:	**July 23, 2018 at 8:30 am**
Questions Deadline:	**July 30, 2018 by 4:30 pm**
Answers Posted:	**August 1, 2018 by 4:30 pm**
Bids Due:	**August 6, 2018 by 2:00 pm**
Execute Contract:	**August 20, 2018**
Completion Date:	**November 1, 2018**

PAYMENT STRUCTURE

Payments will be in accordance with Attachment B of the Sample Contract.

SELECTION PROCESS and BASIS OF AWARD

The State reserves the right to reject any or all proposals received as of result of this RFP for any reason, to waive minor irregularities in any proposal received, and to negotiate with any party in any manner deemed necessary to best serve the interest of the State.

The selection for the contract shall be made based on the following evaluation criteria.

If a product other than the manufacturer and model specified is bid, a committee of staff from FPR will review all proposals to determine which one is most advantageous to the State. Evaluation will be based on the following criteria:

Evaluation Criteria

1. Bid package total price
2. Ability to complete project within required time frame.
3. Demonstrated similar projects with satisfactory completion.
4. Completeness of requirements of RFQ.

PROJECT LOCATION MAP