



**Town of Bristol**

P.O. Box 249  
1 South Street  
Bristol, VT 05443  
(802) 453-2410  
[www.bristolvt.org](http://www.bristolvt.org)

**BRISTOL PUBLIC WORKS DEPARTMENT  
REQUEST FOR PROPOSALS  
DUMP BODY, PLOW, WING, AND SANDER EQUIPMENT  
FOR 7-YARD DUMP TRUCK  
DUE: Friday, March 13, 2020, 11:00 a.m.**

The Town of Bristol is requesting proposals for a dump body and plow, wing, and sander equipment to be installed on a 2020 truck cab and chassis. The specifications listed on the pages that follow are intended to be used as a guideline. The Town welcomes proposals that meet or exceed these specifications. All proposals must note any differences in specifications.

Proposals are due by Friday, March 13 at 11:00 a.m. at the Town Office at 1 South Street. The proposals can be mailed to Town of Bristol, P.O. Box 249, Bristol VT 05443, and Attn: Equipment Proposals, e-mailed to [town@bristolvt.org](mailto:town@bristolvt.org), or faxed to (802) 453-5188. Proposals may also be hand delivered to the Town Office located at 1 South Street. The office hours are 8:00 a.m. to 4:30 p.m. Monday thru Friday. For questions regarding these specifications please call Road Foreman Eric Cota at the Town Garage at (802) 453-4707 or by cell phone at (802) 373-9763. Questions may also be directed to Assistant Foreman Cale Pelland at the Town Garage (802) 453-4707 or Town Administrator Valerie Capels at (802) 453-2410.

The bid winner will have 90 calendar days from the date of delivery of the cab and chassis to its premises to install the proposed equipment and return to the Town of Bristol. If the equipment is not returned or in full operation after that time the bid winner will pay the penalty of renting a plow, wing, and sander truck until the equipment is complete and suitable to the Road Foreman.

The bids will be opened at 11:00 a.m. or soon thereafter on Friday, March 13, 2020. The Town of Bristol through its Selectboard, reserves the right to reject any or all proposals received, or to accept any proposals it deems to be in the best interests of the Town of Bristol.

*The Town of Bristol is an equal opportunity provider and employer and does not discriminate on the basis of race, color, national origin, age, disability, religion, gender, or familial status.*

<b>Specifications</b>	<b>Deviations?</b>		<b>If Yes, Describe</b>
	<b>Yes</b>	<b>No</b>	
<b>A. Plow</b>			
1. Shall be a "C" shaped moldboard with a passenger and driver side flare for snow throw and an adjustable forty-five to sixty degree attack angle of the road surface.			
2. Cutting Edge length: 11'.			
3. Moldboard height: 32" at center with right hand and left hand flare.			
4. Moldboard constructed from high strength carbon steel.			
5. A steel moldboard extension shall be integral to the leading edge of the plow to decrease blow back of snow.			
6. There shall be no less than 6 moldboard Reinforcing ribs.			
7. The moldboard shall be of the slotted trip design and shall trip by means of two compression springs.			
8. Plow shall be punched 12" on center.			
9. Plow shall be fitted with carbide blade and cover blade minimum 5/8" thick.			
10. Two frame shoes shall be supplied.			
11. The push frame's main drive member is constructed from 5" x 5" x 1/4" wall square tubing.			
12. Equipment controls to be mounted by Road Foreman's spec.			
13. Reversing shall be achieved with at least two 3" double acting cylinders protected by a built-in cushion relief valve.			

14.	An oscillating bar shall be provided as part of the push frame assembly to allow the plow to follow road contours.			
15.	Plow shall pin to hitch with two quick lock jaws on industry standard 30 ½" centers.			
16.	A screw jack shall be provided to hold the plow frame level when detached from the truck.			
17.	The lifting device shall be a chain and block design or equivalent.			
18.	Moldboard steel shall be sandblasted, primed with an epoxy primer, and painted (plow).			
19.	Drive frame steel shall be sandblasted, primed with an epoxy primer, and painted black.			

Specifications	Deviations?		If Yes, Describe
	Yes	No	
<b>B. Hitch and Wing System</b>			
1. Hitch to be tilt over design and be able to remove by taking out 4 pins.			
2. There shall be two side plates extending from the chassis frame rails to the bottom of the hitch.			
3. Be able to put front bumper back on.			
4. Hitch shall stay in a fixed position and allow the truck hood to tilt over for engine access.			
5. There shall be a front mounted cylinder for plow lift. Double acting min. 3".			
6. Two plow pin heights shall be provided. One at 13" from the ground and one at 16" from the ground.			

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Request for Proposals

7. Quick lock jaws shall be pinned into the hitch to aid plow removal and hook up.			
8. Two horizontal tubes shall extend outward to the passenger side of the chassis to serve as support of the front wing post.			
9. The front wing post shall be bolted to the hitch.			
10. The front wing post must be minimum 48 Inch cylinder.			
11. The post shall be tall enough to allow the float to be viewed by the driver through it's complete range.			
12. The rear post shall be patrol type			
13. Three angle iron supports shall brace the rear post and attach to a plate fastened to the chassis frame rail.			
14. A boxed tube shall tie both chassis frame rails together with the rear post.			
15. The rear wing post shall have a three point attachment for top and bottom push arm and lift cylinder attachment.			
16. Push arms are adjustable in length to provide variable clearing paths.			
17. Push arms shall allow the wing to trip when encountering an obstacle.			
18. A trip block shall be mounted between the nose of the wing and the front post to allow the wing to trip over road obstacles.			
19. All hitch and wing mount gear shall be wing sandblasted, epoxy primed, and painted black.			
20. Cutting edge length: 9'.			

21. Overall Length: 10'.			
22. Nose height: 30".			
23. Discharge height: 40".			
24. Moldboard constructed from high strength carbon steel.			
25. Moldboard shall be reinforced with no less than five full length ribs.			
26. The leader plate shall have one hole to accept a 1 ¼"wing bolt with reinforcing plate around both.			
27. There shall be several attachment points at the back of the wing to allow the push arms to be attached at the proper angle.			
28. The wing shall be punched 12" on center.			
29. The wing shall pull in without hitting the mirror.			
30. The wing should be a minimum cutting-width of _____ (to be determined at later date by Foreman) so it does not need to be cut down to be put in the shop.			
31. Tailgate top pins should be greasable.			
32. Hand-crank sander door.			

Specifications	Deviations?		If Yes, Describe
	Yes	No	
<b>C. Hydraulics</b>			
1. A transmission mounted hot shift PTO and tandem gear pump shall power all hydraulic functions, being able to run all functions at the same time.			
2. Implement valveing shall be electric over hydraulic stackable style and controls armrest electronic dual joystick actuated.			

3. Spreader functions shall be run with a Cirus electronic spreader control and valve or pre-approved equivalent.			
4. All implement and spreader lines shall be plumbed with stainless steel, and short hose whips.			
5. The oil reservoir shall be mounted behind the cab and a minimum of thirty gallon capacity with return line oil filtration and ball valve shut off and low oil light in cab.			
6. All implement and spreader hydraulic lines shall be stainless steel pipes mounted in shock resistant clamps with short whips on the ends.			

Specifications	Deviations?		If Yes, Describe
	Yes	No	
<b>D. Combination Spreader/Dump Body</b>			
1. Heavy duty body serving as a spreader or dump, transformed by a hydraulic tilting floor with 2 yr paint and rust warranty.			
2. Inside length: 10'.			
3. Hoist cylinder: double acting telescopic			
4. Cab Shield: 24" overhang.			
5. Shell of body to be constructed from 10 gauge high tensile steel.			
6. Tailgate will be double acting design and lay flat with the floor when in the horizontal position with less than 1/2" gap.			
7. Tailgate shall be air operated from within cab and shall latch and unlatch with a double acting air cylinder.			
8. Tailgate top mount hinges shall be of quick latch design approved by the Road Foreman.			

<p>9. The floor shall be construction of 3/16" AR400 minimum 180,000 PSI tensile strength steel also in conveyor floor.</p>			
<p>10. The understructure of the body shall consist of two 10' I-beam longitudinals and C channel cross members spaced 12" on center.</p>			
<p>11. The entire body shall have a central lube kit with hydraulic hose minimum 3, 000 psi.</p>			
<p>12. The side tilt floor shall be raised to reload the conveyor by use of two double acting cylinders with indicator on driver side to be seen in rear view mirror.</p>			
<p>13. The conveyor is an integral part of the body floor and runs longitudinally down the driver's side of the body, discharging in front of the rear wheels minimum 12" wide with adjustable feed door with hand crank jack.</p>			
<p>14. There shall be a minimum two section chain cover plate.</p>			
<p>15. The chain shall contain bar flights every other link for greater strength and more even material flow, heavy duty chain.</p>			
<p>16. The chain is driven by 25:1 ratio gearbox.</p>			
<p>17. Gearbox assembly is installed on the discharge end and is bolt on.</p>			
<p>18. The spinner shaft has a top mounted bi-rotational hydraulic motor to spin an 18" poly disc to be adjustable up and down, side to side.</p>			
<p>19. The side to side movement shall be controlled by a hydraulic cylinder operated from the in the cab.</p>			
<p>20. The spinner rotation shall be able to be reversed from in the cab by the driver.</p>			

21. A poly chute feeds the spreading disc.			
22. The chute is frame mounted and both adjustable and removable.			
23. Body mounting shall include two sets of mud flaps.			
24. Body shall have high Tensile Tailgate chains to allow tailgate to spread or lay down.			
25. The front set shall have anti-sails.			
26. Body shall have 2 sets of hooks on each side of the body for tailgate chains to hook into for spreading or to lay flat.			
27. Body shall be shot blasted, epoxy primed and painted black.			
28. Side chute for graveling shoulders.			

Specifications	Deviations?		If Yes, Describe
	Yes	No	
<b>E. Lighting</b>			
1. Led heated plow lights or equivalent.			
2. All wiring to be sealed and water tight warranty 2 years against corrosion.			
3. Strobe system shall include four LED cab shield mounted and two LED corner post mounted strobes and two under tailgate, one on each rear side corner post at the bottom (location determined by Road Foreman).			
4. Running lights shall consist of LED stop/tail/turns and marker lights.			



5. Comer post strobes and stop/tail/turns shall be mounted in the comer posts. Mounting in "add on" boxes or in the rear apron shall be deemed unacceptable.			
6. Five spot lights shall be supplied and installed. one wing, one spinner, one feed gate, and two rear mounted.			
7. The two rear lights should be a minimum of 5,700 lumens.			
8. All lighting approved by Road Foreman.			

Specifications	Deviations?		If Yes, Describe
	Yes	No	
<b>F. Required Options (to be included in base price)</b>			
1. A 20-ton pintle plate shall be installed with a combo adjustable 20-ton plate ball/hook, D-Rings, and electrical plug (7 Spade), height to be determined by Foreman.			
2. A shovel holder shall be installed approved by Road Foreman.			
3. Ladder to be installed on driver's side (approved by Road Foreman).			
4. Two glad hands shall be installed for air brakes on a trailer.			
5. Color monitor with four remote cameras, placement to be determined by Foreman.			

**TOWN OF BRISTOL BID FORM**  
**DUMP BODY, PLOW, WING, and SANDER EQUIPMENT**  
**For Seven-Yard Dump Truck**

Name of Firm: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Phone(s): \_\_\_\_\_  
E-mail(s): \_\_\_\_\_

List manufacturer of major components to be provided: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**BASE PRICE:** \_\_\_\_\_ \$ \_\_\_\_\_

**OPTIONS:** Please indicate additional cost for substituting or adding the following:

___ Undercoating of the truck frame and dump body	\$ _____
___ Semi-auto load cover with asphalt tarp and tie-downs	\$ _____
___ Extra Bed Chain Heavy Duty (k)	\$ _____
___ A heavier duty version of standard wing arms	\$ _____
___ An electric load cover and tarp provided with tie downs	\$ _____
___ Carbide blades and cover blades minimum 5/8" thick for plow and wing	\$ _____
___ Outside driver side plow control lever approved by Road Foreman	\$ _____
___ Rubber flap on plow	\$ _____
___ Electric sander door.	\$ _____
___ One road temperature sensor for the new truck.	\$ _____
___ One road temperature sensor to be installed on current Freightliner.	\$ _____

Please list any deviations from the specifications below. Also, list any suggestions for alternatives or additions that you recommend for the best performance for this vehicle. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**WARRANTY:** Please include information regarding the complete standard warranty and include cost for extended warranty options if available. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Number of days needed between receipt of cab and chassis and completion of equipment installation (preference will be given to proposals where truck can be completed 90 calendar days of arrival at your yard): \_\_\_\_\_

Proposals are due by Friday, March 13, 2020 at 11:00 a.m. at the municipal offices at 1 South Street, Bristol, VT. The Town of Bristol, through its Selectboard, reserves the right to reject any or all proposals received, or to accept any proposals it deems to be in the best interests of the Town of Bristol.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_