



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
707E0010

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**JOHN JOHNSTON
 304-558-2402**

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750

DATE PRINTED 05/02/2006	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **05/31/2006** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	3	EA		765-61		
FRONT MOUNTED WING SNOWPLOW(LEFT, CENTER, RIGHT)						
PER THE ATTACHED SPECIFICATIONS						
A MANDATORY PRE-BID WILL BE HELD ON 5/18/06 AT 10:00 IN THE BID ROOM AT 2019 WASHINGTON STREET, EAST, CHARLESTON, WV. FAILURE TO ATTEND THE PRE-BID WILL RESULT IN DISQUALIFICATION OF THE BID.						
VENDOR PREFERENCE CERTIFICATE						
CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).						
A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:						
() BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR						
() BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY I WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4)						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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**GENERAL TERMS & CONDITIONS
(REQUEST FOR QUOTATION) RFQ AND (REQUEST FOR PROPOSAL) RFP**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$45 fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from Federal and State taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **DUPLICATE BIDS:** All quotations must be delivered by the bidder to the respective offices listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

ORIGINAL SIGNED BID TO:

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

DUPLICATE BID TO:

State Auditor's Office
Bid Observer
Building 1 Room W114
1900 Kanawha Boulevard, East
Charleston, WV 25305-0230



State of West Virginia
 Department of Administration
 Purchasing Division
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<p>YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH</p>						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						

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<p>PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASIN DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: -----</p> <p>DATE: -----</p> <p>SIGNED: -----</p>						

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TITLE: -----						
<p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p>						
NOTICE						
AN ORIGINAL, SIGNED BID MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
AN EXACT DUPLICATE MUST BE SUBMITTED TO:						
STATE AUDITOR'S OFFICE BID OBSERVER BUILDING 1, ROOM W114 1900 KANAWHA BOULEVARD, EAST CHARLESTON, WV 25305-0230						
BOTH BIDS MUST CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPES OR THE BIDS MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER: 33						

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RFQ. NO.: 707E0010						
BID OPENING DATE AND TIME						
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						

CONTACT PERSON (PLEASE PRINT CLEARLY):						

***** THIS IS THE END OF RFQ 707E0010 ***** TOTAL: _____						

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS
NO. 019-1-A

FRONT MOUNTED WING SNOWPLOW (LEFT, CENTER, RIGHT)

1.0 PURPOSE

It is the purpose of these specifications to describe a Front Mounted Wing Snowplow (Left, Center, Right) (hereinafter referred to as a "plow" or a "unit") to be purchased for use by the West Virginia Division of Highways (DOH). The plows are to be mounted on a West Virginia Division of Highways Mack Granite Tandem Axle Dump Truck (64,000 GVW) by the successful bidder as a complete working attachment. All parts not specifically mentioned, but necessary in order to provide a complete unit, shall be furnished and shall conform in strength, quality of material, and workmanship. The plow shall be new and heavy duty industrial production and shall include all of the latest improvements in design and all standard equipment and features to meet the listed bid specifications. Units not conforming to these specifications will be rejected.

2.0 BIDDING PROCEDURES

The current purchasing procedures regarding bidding as established by the Department of Administration, Purchasing Division, shall apply. Failure to submit the "Request for Quotation" forms, complete in its entirety and according to directions indicated, may subject the bidder to disqualification. Each bid submitted shall also be accompanied by a Bidder's Evaluation Report completed in detail. FAILURE TO SUBMIT THE BIDDER'S EVALUATION REPORT, COMPLETE IN ITS ENTIRETY, MAY RESULT IN AUTOMATIC DISQUALIFICATION.

3.0 SPECIFICATIONS

The specifications named herein, mandatory and non-mandatory, establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor.

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

Exception to a non-mandatory unit specification may be made by the bidder, providing the exception is not available from the manufacturer. Any such exception must be noted on the bidder's evaluation report and should be accompanied by supporting documentation/literature from the manufacturer. Any exception must be indicated on a separate attachment to the bidder's evaluation report and labeled as "Exception to

Specifications". The state reserves the right to determine whether the stated exception does or does not reduce the quality and performance of the unit. Failure to provide information for any exceptions may be grounds for rejection of the bid. The state reserves the right to waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

3.2 MANDATORY SPECIFICATIONS

All specifications preceded by "shall and/or must" or are stated as a "minimum and/or maximum" are mandatory. Any bid failing to meet any mandatory item shall be immediately disqualified. Failure to respond in the appropriate evaluation section may also be grounds for immediate disqualification at the discretion of the State.

A mandatory pre-bid conference is scheduled for this equipment purchase as stated in the RFQ. Vendors having products with variations or exceptions in specified mandatory items are expected to address any such variations or exceptions during the pre-bid conference. The State shall review and consider any such variation or exception, and may at its sole discretion, issue an addendum to change mandatory specifications deemed to be in the State's best interest. Bids from any vendor failing to attend the mandatory pre-bid shall be disqualified. Bids containing any variation or exception to a mandatory specification that was not addressed during the pre-bid conference and accepted by the issuance of an Addendum shall be disqualified.

4.0 REPRESENTATIVE UNIT FOR TEST

The successful vendor must (if specified) provide DOH one (1) completed representative unit to be observed and evaluated on the first order only to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) calendar days following receipt of the unit. DOH will incur no obligation for deterioration of surfaces, finishes, seals, and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor will DOH incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention is given by DOH and testing is done within the limits of these specifications. Failure of the pilot unit to satisfactorily meet specifications as bid shall be cause for cancellation of the purchase order, and return of the delivered unit along with all associated equipment to the vendor at the vendor' expense.

4.1 CONDITION OF UNIT(S) UPON DELIVERY

All units must arrive at the prescribed delivery point having been completely preserviced with oil, lubricants, and coolant. All prescribed precautions pertaining to first operations and break-in of the unit are to be posted conspicuously on the unit for ready observance by the operator.

4.2 DELIVERY

Trucks are to be picked up at Division of Highways facilities and plows mounted at successful bidders facilities. After installation of plows etc., trucks to be delivered to the respective West Virginia Division of Highways facilities by successful bidder.

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within 135 days. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. Delivery terms shall be stated in the bid and the State reserves the right to accept or negotiate such terms. Failure to reach an agreement may result in rejection of the bid. The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.

A completed pilot model for inspection must be provided within 45 calendar days after the date of the purchase agreement by the successful vendor.

Delivery is an integral part of this specification and failure to comply will be cause to initiate a D.O.T. Administrative Form WV-82, Vendor Performance Form. The WV-82 Form will provide a means of officially notifying the Purchasing Division and the vendor of unsatisfactory performance; such as late deliveries, poor service, inadequate parts supplies, etc.

The decision to initiate subject Form will be at the sole discretion of the D.O.H. Commissioner's established Equipment Review Board.

Issuance of the WV-82 Vendor Complaint Form on unsatisfactory delivery against any vendor will be cause to refuse to consider similar items from those vendors on future Request For Quotations.

(NOTE: Delivery time could be altered due to labor strikes, severe inclement weather conditions, etc.)

5.0 AWARD CRITERIA

- 5.1 DOH will recommend the award in accordance with the RFQ evaluation criteria described in the requisition. The award shall be made to the lowest unit cost vendor that meets or exceeds the specifications.

Prices for the units shall be in quantities of 1-3, which will be used for evaluation purposes.

6.0 SPECIFICATIONS AND GUIDELINES – GENERAL

6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

The bidder must identify the unit by manufacturer, model, series, and year of manufacture, in the bid to enable identification by DOH in the manufacturer's specifications of the proposed unit. The bidder will submit complete descriptive literature of the proposed unit, to establish that the bid is the manufacturer's most current model, including latest engineering improvements, which have been, or will imminently be, regularly advertised and sold on the open market. The unit specified herein and offered to be manufactured after January 1, 2006 and be clearly identified and marked with date of manufacture.

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS

An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and Equipment Preventative Maintenance Questionnaire (as shown in X6.2 of the Bidder's Evaluation Report) must be with pilot unit upon delivery. In addition, there must be 12 service, shop, or maintenance manuals; ten (10) to be distributed to the Districts and two (2) for the Equipment Division. Also, there must be 14 parts manuals; ten (10) to be distributed to the Districts and four (4) for Equipment Division use. CD ROM is preferred in lieu of parts manuals.

* NOTE: MANUALS SHALL BE DELIVERED UPON COMPLETION OF DELIVERY OF TOTAL UNITS. FAILURE TO DO SO WILL DELAY PAYMENT.

6.3 TRAINING:

Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator and Mechanic Training. In order to keep the operators and mechanics updated, the successful vendor shall conduct training with this purchase order. Training is preferred within 2 working days after delivery of the pilot unit on the individual purchase order.

Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual.

The seminar to be held at the W. Va. Division of Highways, Equipment Division, Buckhannon, West Virginia.

6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Procedures to be used by the operators of this

equipment, and must include such things as daily prestart inspection procedure, service schedule, and routine maintenance required, safety precautions, etc.

The successful vendor shall furnish all training aids; i.e., videos, projectors, etc. required in conducting the training.

6.5 WARRANTY AND SERVICE POLICY

The Manufacturers warranty or service policy is to apply to the unit. Such warranty or service policy is to be recognized at any authorized unit dealer, representing manufacturer of proposed unit throughout the State of West Virginia. The applicable warranty or service policy will not be contingent upon obtaining routine service, lubrication, and servicing of the unit from factory authorized agencies. It will be the responsibility of the bidder to have available labor to repair or replace any defective replacement parts, components and materials, and to have available those replacement parts, components, and/or materials found to be defective during the terms of the warranty period. The bidder should state the labor rates, locations where parts will be stocked, availability of parts, and discounts offered for parts, when terms of the warranty offer a pro-rated cost for parts and labor. In addition, the successful bidder should offer field work to repair or replace defective parts, components, and materials found to be defective during the terms of the warranty and should provide mechanic's travel rates, mileage charges, field mechanic rates, and any surcharge for miscellaneous items, if applicable, for field work during the warranty period. Submit to Division of Highways any technical or engineering improvements during the term of the warranty. The unit must be accompanied upon delivery by the unit's manufacturer's executed warranty or service policy.

THE "WARRANTY AND SERVICE POLICY QUESTIONNAIRE" ATTACHED IN THE BIDDER'S EVALUATION REPORT MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURER PRIOR TO DELIVERY OF THE PILOT MODEL. (SEE SECTION X6.5 OF BIDDER'S EVALUATION REPORT).

6.6 EVALUATION COMMITTEE REQUIREMENTS

Detailed component specifications, product literature, component models, required for specification compliance determination by the Evaluation Committee should be provided with each bid. Any information supplied that is contrary to/or conflicting with the specifications and/or attached Bidders Evaluation Report may be sufficient cause for rejection of bid.

6.7 UNSPECIFIED ACCESSORIES & FEATURES

All parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, must be furnished with each unit and required to conform to strength, quality of material, and quality of

workmanship to those which are advertised and provided to the market in general by the unit industry.

All parts and accessories advertised and regularly supplied as standard shall be included, except those which would represent duplication of these specified, and except those which, by specification, are not to be furnished. All standard safety features, required by Federal and State Law, shall be included.

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

The hydraulic wing snowplow is to be designed for mounting on a tandem dump truck.

The hydraulic power for lifting etc. will be supplied by the truck central hydraulic system. However, the vendor shall supply the hose and fittings to connect plow systems to valving, located under the front bumper.

7.1 Front Hitch:

- 7.1.1 Front hitch designed as a universal heavy duty type unit to carry plows of weight specified when mounted on 64,000 GVW truck minimum
- 7.1.2 Top of hitch to be mounted to the frame rail of the truck, using minimum of seven (7) 1 inch Grade 8 bolts on each side.
- 7.1.3 Middle of front hitch shall extend out both sides to attach the front wing posts.

7.2 Front Wing Mast – Left

- 7.2.1 Wing mast shall not block OEM headlights
- 7.2.2 Wing post I-beam minimum seven (7) inch (17.8 CH) x 15.3 lb/ft.
- 7.2.3 Minimum wing post side lift shall be .6250 in/(1.588 CH) with a minimum lift from ground to bottom of plow edge for travel of 10 inches /(25 cm)
- 7.2.4 Front wing post cylinder shall be double acting ram-direct (no cables) with float and 500 PSI relief on the down side
- 7.2.5 Front wing post and support strut-girder arrangement shall be attached in such a way that the load is properly distributed to both chassis frame rails, without the use of bracing tubes
- 7.2.6 Support struts shall be no less than 1.250 in/(3.175 cm) diameter schedule 80ASTMA106 Grade A or B seamless pipe brace (minimum of two (2)) or equal.

- 7.2.7 Horizontal support grinder to be 7 in./(17.8 CH) cross channel or 7 in. (17.8 CH) ship and car channel at 22.7 lb/ft or tubing 7 in./(17.8 CH) x 4 in (10 CH) x .3750 in/.9525 cm.
- 7.2.8 Hinge assembly shall be detachable from the slider assembly of the wing mast. (Bolts minimum Grade 8, .6250 in/1.588 CH-N.C.)
- 7.2.9 Wing post cross tube shall be mounted to truck frame members
- 7.2.10 Wing shall have single acting cylinder which provides full power up
- 7.2.11 Wing plow shall have a mechanical alarm system to alert the operator of the position of the plow
- 7.2.11.1 Alarm system must be visible from driver's seat (Ref: EQN-60A)
- 7.2.12 Front wing mast shall have a double acting cylinder vertical lift type, hydraulically controlled by a double acting cylinder direct lift.
- 7.2.13 The front cylinder shall have a quick connect coupler/s.
- 7.2.14 A 3 in/(7.6 CH x 15 in/(38 cm) minimum double acting cylinder from rear "A" frame to mold board to raise the rear of the wing and fold the wing close to the truck for transport.
- 7.3 Front Wing Mast – Right
- 7.3.1 Wing mast shall not block OEM headlights
- 7.3.2 Wing post I-beam minimum seven (7) inch (17.8 CH) x 15.3 lb/ft.
- 7.3.3 Minimum wing post side lift shall be .6250 in/(1.588 CH) with a minimum lift from ground to bottom of plow edge for travel of 10 inches /(25 cm)
- 7.3.4 Front wing post cylinder shall be double acting ram-direct (no cables) with float and 500 PSI relief on the down side
- 7.3.5 Front wing post and support strut-girder arrangement shall be attached in such a way that the load is properly distributed to both chassis frame rails, without the use of bracing tubes
- 7.3.6 Support struts shall be no less than 1.250 in/(3.175 cm) diameter schedule 80ASTMA106 Grade A or B seamless pipe brace (minimum of two (2)) or equal.
- 7.3.7 Horizontal support grinder to be 7 in./(17.8 CH) cross channel or 7 in. (17.8 CH) ship and car channel at 22.7 lb/ft or tubing 7 in/(17.8 CH) x 4 in (10 CH) x .3750 in/.9525 cm.

- 7.3.8 Hinge assembly shall be detachable from the slider assembly of the wing mast. (Bolts minimum Grade 8, .6250 in/1.588 CH-N.C.)
- 7.3.9 Wing post cross tube shall be mounted to truck frame members
- 7.3.10 Wing shall have single acting cylinder which provides full power up
- 7.3.11 Wing plow shall have a mechanical alarm system to alert the operator of the position of the plow
 - 7.3.11.1 Alarm system must be visible from driver's seat (Ref: EQN-60A)
- 7.3.12 Front wing mast shall have a double acting cylinder vertical lift type, hydraulically controlled by a double acting cylinder direct lift.
- 7.3.13 The front cylinder shall have a quick connect coupler/s.
- 7.3.14 A 3 in/(7.6 CH x 15 in/(38 cm) minimum double acting cylinder from rear "A" frame to mold board to raise the rear of the wing and fold the wing close to the truck for transport.
- 7.4 Rear Wing Tower:
 - 7.4.1 Rear wing truck attachment shall be no less than 8 inch I-beam of 23 lb/ft.
 - 7.4.1.1 I-beam shall be supported by minimum 3/8 inch half moon steel
 - 7.4.2 Rear wing shall have two (2) point attachment for the bottom push arms and for the tilt cylinder to lift the wing into the carry position.
 - 7.4.3 Attachment to the truck shall be no less than 1 inch x 5 inch plate steel across the top of the truck frame as close to the cab as possible
 - 7.4.3.1 This plate shall have gussets at the high stress points
 - 7.4.3.2 Welded to this point shall be no less than 4 inch x 3 inch x 3/8 inch angle which shall run parallel to the truck frame and bolt tight to the same.
 - 7.4.3.3 This angle to the rear post shall be braced
 - 7.4.4 Attachment shall be designed to allow for adjustment of angle as well as height at time of installation to assure proper operation.
 - 7.4.5 There shall be a valve enclosure box with cover bolted to this rear attachment

- 7.5 Wing Stand Off Arms:
- 7.5.1 Wing push arms shall be of the heavy duty type
 - 7.5.2 Bottom push arms shall be constructed of outer tube no less than 4 inch x 4 inch x 3/8 inch square tube with an inner tube no less than 3 inch x 3 inch x 3/8 inch (THAT WILL SLIDE INSIDE OF THE OUTER TUBE)
 - 7.5.2.1 There shall be no less than 2 1/2 inch x 27 inch cylinder to slide the inner tube through the outer tube to adjust push arm length
 - 7.5.2.2 There shall be no less than a 2 1/2 inch x 27 inch cylinder that attaches to the two (2) point attachment on the truck and to the bottom push arm to lift and tuck the wing in as tight to the truck as possible.
 - 7.5.2.3 Cylinders shall be nitrated for superior wear and corrosion resistant
- 7.6 Rear Wing Tower Left Hand:
- 7.6.1 Rear wing truck attachment shall be no less than 8 inch I-beam of 23 lb/ft
 - 7.6.1.1 I-beam shall be supported by minimum 3/8 inch half moon steel
 - 7.6.2 Rear wing shall have two (2) point attachment for the bottom push arms and for the tilt cylinder to lift the wing into the carry position.
 - 7.6.3 Attachment to the truck shall be no less than 1 inch x 5 inch plate steel across the top of the truck frame as close to the cab as possible.
 - 7.6.3.1 This plate shall have gussets at the high stress points
 - 7.6.3.2 Welded to this point shall be no less than 4 inch x 3 inch x 3/8 inch angle which shall run parallel to the truck frame and bolt tight to the same
 - 7.6.3.3 This angle to the rear post shall be braced
 - 7.6.4 Attachment shall be designed to allow for adjustment of angle as well as height at time of installation to assure proper operation.
 - 7.6.5 There shall be a valve enclosure box with cover bolted to this rear attachment
- 7.7 Wing Stand Off Arms Left Hand:
- 7.7.1 Wing push arms shall be of the heavy duty type

- 7.7.2 Bottom push arms shall be constructed of outer tube no less than 4 inch x 4 inch x 3/8 inch square tube with an inner tube no less than 3 inch x 3 inch x 3/8 inch (THAT WILL SLIDE INSIDE OF THE OUTER TUBE)
- 7.7.2.1 There shall be no less than a 2 1/2 inch x 27 inch cylinder that slide the inner tube through the outer tube to adjust push arm length
- 7.7.2.2 There shall be no less than a 2 1/2 inch x 27 inch cylinder that attaches to the two (2) point attachment on the truck and to the bottom push arm to lift and tuck the wing in as tight to the truck as possible.
- 7.7.2.3 Cylinders shall be nitrated for superior wear and corrosion resistant.
- 7.8 Trip Wing Hinge:
- 7.8.1 The wing shall be attached to the front wing post with a trip hinge
- 7.8.2 The hinge shall be designed to allow the wing to trip and reset automatically when hitting an obstruction
- 7.8.3 The reset shall be with a rubber compression and not with coil spring
- 7.8.4 The hinge should have two (2) offset hinges to lift the wing as it trips.
- 7.9 Trip Wing Hinge Left Hand:
- 7.9.1 Wing shall be attached to the front wing post with a trip hinge
- 7.9.2 Hinge shall be designed to allow the wing to trip and reset automatically when hitting an obstruction
- 7.9.3 The reset shall be with a rubber compression and not with coil spring
- 7.9.4 The hinge should have two (2) offset hinges to lift the wing as it trips
- 7.10 Side Wing (Right Side):
- 7.10.1 Side wing shall be designed for the right side of the truck and shall be heavy duty
- 7.10.2 Side wing over all length approximately 132 inches with 120 inch x 8 1/2 inch cutting edge minimum
- 7.10.3 Nose height approximately 32 inches and discharge height approximately 39 1/2 inches.

- 7.10.4 Cutting edge backer shall be 4 inches x 6 inches x 5/8 inches with gussets and punched to accept 8 inch or 3 inch – 3 inch – 12 inch punch cutting edge
 - 7.10.5 Backer shall have a minimum of 5 3/8 inch ribs
 - 7.10.6 The leader shall be a minimum of 1 inch plate steel and shall have two (2) holes to accept a 1 1/4 inch wing bolt
 - 7.10.7 The top of the ribs shall be welded to a 3 inch x 3 inch x 3/8 inch angle (minimum) running the full length of the top of the wing
 - 7.10.8 Wing skin must be no less than 10 gauge steel
 - 7.10.9 Back of wing must have several places longitudinally to allow the push arms to be attached at proper angles
 - 7.10.10 Steel on wing shall be sand blasted before primer and back of wing shall be painted orange (Sico #517553 or equal).
- 7.11 Side Wing (Left Side):
- 7.11.1 Side wing shall be designed for the left side of the truck and shall be heavy duty.
 - 7.11.2 Side wing over all length approximately 132 inches with 120 inch x 8 1/2 inch cutting edge minimum
 - 7.11.3 Nose height approximately 32 inches and discharge height approximately 39 1/2 inches.
 - 7.11.4 Cutting edge backer shall be 4 inches x 6 inches x 5/8 inches with gussets and punched to accept 8 inch or 3 inch – 3 inch – 12 inch punched cutting edge
 - 7.11.5 Backer shall have a minimum of 5 3/8 inch ribs
 - 7.11.6 The leader shall be a minimum of 1 inch plate steel and shall have two (2) holes to accept a 1 1/4 inch wing bolt
 - 7.11.7 The top of the ribs shall be welded to a 3 inch x 3 inch x 3/8 inch angle (minimum) running the full length of the top of the wing
 - 7.11.8 Wing skin must be no less than 10 gauge steel
 - 7.11.9 Back of wing must have several places longitudinally to allow the push arms to be attached at proper angles.

- 7.11.10 Steel on wing shall be sand blasted before primer and back of wing shall be painted Orange (Sico #517553 or equal).
- 7.12 Reversible:
- 7.12.1 Plow shall have a clearing path of 12 feet in the bulldozer position and shall clear 9 feet 8 inches at 30 degrees.
- 7.12.2 Overall height of plow shall be maximum 42 inches
- 7.12.3 Top of mold board shall have minimum 1 1/2 inch x 2 1/2 inch tubular steel running parallel to the ground
- 7.12.3.1 A minimum of seven (7) 3/8 inch ribs shall be welded to this tube
- 7.12.3.2 Bottom of ribs shall be welded to a 4 inch x 6 inch x 5/8 inch (minimum) boxed hinge and spring support
- 7.12.4 Hinges shall be the support for the trip edge section.
- 7.12.5 Cutting edge backer shall be a minimum of 4 inch x 4 inch x 3/4 inch angle supported by a minimum of six (6) plate hinges flame cut of a minimum of 5/8 inch steel
- 7.12.6 Trip section shall be one (1) piece trip and shall become three (3) section by removing two (2) 1 inch section bolts allowing the cutting edge to be three (3) section trip
- 7.12.7 Trip section shall be reset after hitting an obstruction by coil springs mounted vertical behind the trip mechanism
- 7.12.8 Coil spring shall be wound of 7/8 inch wire (minimum) and have a minimum of eight (8) coils
- 7.12.9 Should be a minimum of two (2) spring retainer holes to allow for spring tension adjustment
- 7.12.10 Replaceable cutting edge shall be 1/2 inch x 8 inches mounted by 5/8 inch bolts on 8 inch center
- 7.12.11 Backer iron for cutting edge shall be punched to receive both 8 inch AHD 3-3-12 replacement edges.
- 7.12.12 Two (2) mold board shoes and two (2) curb shoes; one (1) left side and one (1) right side to be provided
- 7.12.12.1 Curb shoes to be minimum of 1 1/2 foot shaft with 65K Rockwell hardness

- 7.12.13 Mold board skin shall be no less than 10 gauge steel and shall be welded to the top, ribs, and bottom supports
- 7.12.14 A-frame to be minimum of 4 inch x 4 inch x 3/8 inch tubular steel and pin to the main frame support tube
- 7.12.15 Main frame support tube to be no less than 4 inch x 4 inch x 3/8 inch tubing
- 7.12.16 A-frame reversing table shall be flame cut 1/2 inch plate steel and shall be a minimum of 9 inches wide.
- 7.12.17 The evener plate shall have stops to restrict the plow from listing more than 25 degrees
- 7.12.18 Plow to be attached to the truck with two (2) ears of 1 inch steel (minimum)
 - 7.12.18.1 Ears to be on 31 inch centers
- 7.12.19 Reversing to be achieved with two (2) industrial type cylinders with a 1 1/2 inch shaft, 3 inch barrel and a 18 inch stroke
 - 7.12.19.1 Cylinders must be protected with built in cushion valve
- 7.12.20 Push frame shall pin to the mold board providing the capability of adjusting the cutting edge angle to the road after the plow has been attached to the truck
- 7.12.21 The lifting device shall be a pulley and cable design to allow the plow to be raised with a minimum of lift.
- 7.12.22 All steel shall be sand blasted and painted
- 7.13 Control Valves:
 - 7.13.1 Control valves must be commercial or equal
 - 7.13.2 There shall be six (6) section right front wing, right rear wing, right telescopic, left front wing, left rear wing and left telescopic.
 - 7.13.3 The cab controls push pull cables to be Wescon Model #08-5700-08 or equal
 - 7.13.4 Controls for dump body shall have built in lock out to prevent accidental actuation.
 - 7.13.5 Controls to be mounted as directed by West Virginia of Highways Equipment Division.

- 7.13.6 Valves shall have a built in relief
- 7.14 Hoses and Fittings:
 - 7.14.1 All hydraulic hoses and fittings shall be JIC with o-ring boss thread adaptors.
 - 7.14.2 Hoses and fittings to be placed so as not to be damaged from rubbing or heat
 - 7.14.3 As needed, hoses shall be wrapped with loom for protection.
- 7.15 Installation:
 - 7.15.1 Equipment shall be mounted neatly on truck furnished by Division of Highways
 - 7.15.2 Installation to include all hoses, fittings, and other appurtenance required to have a complete and ready unit.
 - 7.15.3 Shall be plow lights top of plow frame mounted with the system
 - 7.15.4 All steel shall be sandblasted before primer and paint is applied.
 - 7.15.5 Vendor must have insurance to cover trucks while at mounting facility and during transport.
- 7.16 Unit shall include all other features considered as standard equipment but not specifically addressed above.
- 7.17 Vendor must certify that snowplow offered will comply with the Occupational Safety and Health Act of 1970 and subsequent amendments.
- 7.18 Advertising: Manufacturer shall attach a metal plate on the reverse side of the moldboard stating manufacturer, series or model number, size and type of blade (approximately 6 inch to 8 inch square). Date of manufacturer shall also be stamped on plate or moldboard. No large decals or painted advertisement is permitted.
- 7.19 All loose hardware to be in a separate container for each plow and shipped with each plow.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS
NO. 019-1-A

FRONT MOUNTED WING SNOWPLOW (LEFT, CENTER, RIGHT)

NOTE TO BIDDER: Procurement Specification No. 019-1-A, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid.

FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: _____

Bidder's Name: _____

Address: _____

Telephone Number: _____

Years Bidder has been registered to do business with the State of West Virginia: _____ YRS.

Years Company has been an authorized dealer for proposed unit: _____ YRS.

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: _____ Calendar Days After Date of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: _____ Calendar Days After Date of Purchase Agreement

X5.0 AWARD CRITERIA;

X5.1 Prices for unit including installation in quantities of 1-3 _____ per unit

X6.0 SPECIFICATIONS - GENERAL

X6.1 Manufacturer, model, series, and date of manufacture of proposed unit:

_____ Is descriptive literature, fully describing proposed unit attached to your bid? _____ YES _____ NO

If not, why? _____

6.2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units? _____ YES _____ NO

Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit? _____ YES _____ NO

X6.2
2-10-00

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER=S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH.

DESCRIPTION: _____ MAKE: _____

MODEL: _____ YEAR: _____ PURCHASE AMOUNT: _____

ENGINE: MAKE: _____ MODEL: _____ FUEL TYPE: _____

HORSEPOWER: _____ CYLINDER: _____ ENGINE SERIAL: _____

COOLING SYSTEM CAPACITY: _____

BELTS:	DESCRIPTION:	PART NUMBERS:
	_____	_____
	_____	_____

GVW: _____ AXLE CAPACITY:FRONT: _____ REAR: _____

TIRES: FRONT MAKE & SIZE: _____

REAR MAKE & SIZE: _____

DIMENSIONS OF UNIT: LENGTH: _____ WIDTH: _____ LENGTH: _____

VENDOR CONTACT PERSON: _____ PHONE: _____

PARTS:

BATTERY MAKE: _____	MODEL: _____	CCA: _____
TOP OR SIDE POST: _____	DIMENSIONS: LENGTH _____	WIDTH _____ HEIGHT _____
SPARK PLUGS OR FUEL INJECTORS MAKE: _____	PART # _____	
FUEL PUMP OR INJECTION PUMP MAKE: _____	MODEL: _____	
ALTERNATOR MAKE: _____	PART #: _____	
STARTER MAKE: _____	PART #: _____	
TURBO CHARGER MAKE: _____	PART #: _____	
TRANS. MAKE: _____	MODEL: _____	AUTO/MANUAL: _____
HYDRAULIC PUMP MAKE: _____	MODEL: _____	

FILTERS	MAKE	PART NO.	LUBRICANT	MANUFACTURER TYPE
OIL	_____	_____	ENGINE	_____
AIR INNER	_____	_____	TRANSMISSION	_____
AIR OUTER	_____	_____	POWER STEERING	_____
FUEL PRIMARY	_____	_____	HYDRAULIC	_____
FUEL SECONDARY	_____	_____	DIFFERENTIALS	_____
COOLANT	_____	_____	BRAKE FLUID	_____
HYDRAULIC	_____	_____	COOLANT	_____
OTHER	_____	_____	OTHER	_____

X6.3 TRAINING:

Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training
 YES NO

Will you conduct training with each purchase order against this open end contract?
 YES NO

Will training be conducted within 2 working days from the delivery of the pilot unit on the individual
 purchase order? YES NO

If NO, explain time frame _____

Will an Operator's Manual be furnished to the Training Academy? YES NO

X6.4 If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in
 conducting the training? YES NO

X6.4.1 Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service
 schedule be delivered with each unit? YES NO
 If NO, explain _____

X6.5 WARRANTY AND SERVICE POLICY

Will the warranty and service you provide comply with all areas as stated in Section 6.5 of specifications
 YES NO

Is warranty literature attached? YES NO

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURERS TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH (If additional lines are needed, make copies of form.)

1. Define the terms of the standard warranty. If not offered, so state. (Attach copy)

2. Define warranty service to be performed at DOH facilities and warranty service to be performed at manufacturer's representative facility. List name and location of manufacturer's representative.

3. List locations for parts inventories that are within the State of West Virginia. Also, list availability levels, if known.

4. During the term of warranty, list the guarantee discount to manufacturer's published list price for parts that bidder will sell the parts to owner.

- A. Terms: Net 30 Manufacturer's published list price less: _____ % discount
- B. Terms: Net 60 Manufacturer's published list price less: _____ % discount
- C. Terms: Net 90 Manufacturer's published list price less: _____ % discount

5. During the term of warranty, will all manufacturers or engineering improvements be submitted to Division of Highways? _____ YES _____ NO

6. During the term of warranty, list the guaranteed rates charged for repair to the unit.

- A. Shop Rate \$ _____ per mechanic hour
- B. Travel Time Charge \$ _____ per mechanic hour
(Specify if one-way) _____; port to port _____
- C. Mileage Charge \$ _____ per vehicle mile
(Specify if one-way) _____; port to port _____
- D. Field Mechanic Rate \$ _____ per mechanic hour
- E. Specify period of time that prices are in effect: _____
- F. Surcharge for miscellaneous items: _____ %

X6.6 EVALUATION COMMITTEE REQUIREMENTS

Is all component specifications, product literature, component models provided for Evaluation Committee bid determination? YES NO

X6.7 Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry? YES NO

X6.7.1 Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are not to be furnished? YES NO

X6.7.2 Are all standard safety features that are required by Federal and State statutes of law included? YES NO

X7.0 SPECIFICATIONS OF THE QUOTED UNIT

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.

Will hydraulic wing snowplow be designed for mounting on a tandem dump truck YES NO

Is the hydraulic power for lifting etc. supplied by the truck central hydraulic system YES NO

Will you supply the hose and fittings to connect plow systems to valving, located under the front bumper YES NO

Manufacturer: _____ Model: _____

X7.1 Front Hitch:

X7.1.1 Is the front hitch designed as a universal heavy duty type unit to carry plows of weight specified when mounted on 64,000 GVW truck minimum YES NO

X7.1.2 Is top of hitch mounted to the frame rail of the truck using _____ 1 inch Grade 8 bolts on each side YES NO

X7.1.3 Middle of front hitch extends out both sides to attach the front wing posts YES NO

X7.2 Front Wing Mast – Left

- X7.2.1 Does wing mast block OEM headlights YES NO
- X7.2.2 Wing post I-beam : _____ x _____ lb/ft.
- X7.2.3 Wing post side lift: _____
with lift from ground to bottom of plow edge for travel of _____ inches
- X7.2.4 Is front wing post cylinder double acting ram-direct (no cables) with float and 500 PSI relief on the down side YES NO
- X7.2.5 Is front wing post and support strut-girder arrangement attached in such a way that the load is properly distributed to both chassis frame rails, without the use of bracing tubes YES NO
- X7.2.6 Support struts: _____ in. diameter schedule _____
Grade A or B seamless pipe brace (minimum of two (2)) YES NO
- X7.2.7 Horizontal support grinder is 7 in./(17.8 CH) cross channel YES NO
Or
7 in. (17.8 CH) ship and car channel at 22.7 lb/ft YES NO
Or
Tubing 7 in./(17.8CH) x 4 in (10 CH) x .3750 in/.9525 cm YES NO
- X7.2.8 Is hinge assembly detachable from the slider assembly of the wing mast YES NO
Bolts – Grade _____ in/_____ CH-N.C.
- X7.2.9 Is wing post cross tube mounted to truck frame members YES NO
- X7.2.10 Does wing have single acting cylinder which provides full power up YES NO
- X7.2.11 Does wing plow have a mechanical alarm system to alert the operator of the position of the plow YES NO
- X7.2.11.1 Is alarm system visible from driver's seat YES NO
Manufacturer/model _____
- X7.2.12 Does front wing mast have a double acting cylinder vertical lift type, hydraulically controlled by a double acting cylinder direct lift YES NO
- X7.2.13 Does the front cylinder have a quick connect coupler/s YES NO
- X7.2.14 Size of double acting cylinder from rear "A" frame to mold board to raise the rear of the wing and fold the wing close to the truck for transport: _____

X7.3 Front Wing Mast – Right:

- X7.3.1 Does wing mast block OEM headlights _____ YES _____ NO
- X7.3.2 Wing post I-beam : _____ x _____ lb/ft.
- X7.3.3 Wing post side lift: _____
with lift from ground to bottom of plow edge for travel of _____ inches
- X7.3.4 Is front wing post cylinder double acting ram-direct (no cables) with float and 500 PSI relief on the down side _____ YES _____ NO
- X7.3.5 Is front wing post and support strut-girder arrangement attached in such a way that the load is properly distributed to both chassis frame rails, without the use of bracing tubes _____ YES _____ NO
- X7.3.6 Support struts: _____ in. diameter schedule _____
Grade A or B seamless pipe brace (minimum of two (2)) _____ YES _____ NO
- X7.3.7 Horizontal support grinder is 7 in./(17.8 CH) cross channel _____ YES _____ NO
Or
7 in. (17.8 CH) ship and car channel at 22.7 lb/ft _____ YES _____ NO
Or
Tubing 7 in./(17.8CH) x 4 in (10 CH) x .3750 in/.9525 cm _____ YES _____ NO
- X7.3.8 Is hinge assembly detachable from the slider assembly of the wing mast _____ YES _____ NO
Bolts – Grade _____ in/ _____ CH-N.C.
- X7.3.9 Is wing post cross tube mounted to truck frame members _____ YES _____ NO
- X7.3.10 Does wing have single acting cylinder which provides full power up _____ YES _____ NO
- X7.3.11 Does wing plow have a mechanical alarm system to alert the operator of the position of the plow _____ YES _____ NO
- X7.3.11.1 Is alarm system visible from driver's seat _____ YES _____ NO
Manufacturer/model _____
- X7.3.12 Does front wing mast have a double acting cylinder vertical lift type, hydraulically controlled by a double acting cylinder direct lift _____ YES _____ NO
- X7.3.13 Does the front cylinder have a quick connect coupler/s _____ YES _____ NO
- X7.3.14 Size of double acting cylinder from rear "A" frame to mold board to raise the rear of the wing and fold the wing close to the truck for transport: _____

X7.4 Rear Wing Tower:

- X7.4.1 Rear wing truck attachment I-beam: _____ inch of _____ lb/ft
 - X7.4.1.1 I-beam supported by _____ inch half moon steel
- X7.4.2 Does rear wing have two (2) point attachment for the bottom push arms and for the tilt cylinder to lift the wing into the carry position _____ YES _____ NO
- X7.4.3 Attachment to the truck by _____ inch x _____ inch plate steel across the top of the truck frame as close to the cab as possible _____ YES _____ NO
 - X7.4.3.1 Does this plate have gussets at the high stress points _____ YES _____ NO
 - X7.4.3.2 Angle welded to this point which runs parallel to the truck frame and bolt tight to same: _____ inch x _____ inch x _____ inch
 - X7.4.3.3 Is this angle to the rear post braced _____ YES _____ NO
- X7.4.4 Is attachment designed to allow for adjustment of angle as well as height at time of installation to assure proper operation _____ YES _____ NO
- X7.4.5 Is there a valve enclosure box with cover bolted to this rear attachment _____ YES _____ NO

X7.5. Wing Stand Off Arms:

- X7.5.1 Are wing push arms of the heavy duty type _____ YES _____ NO
- X7.5.2 Bottom push arms constructed of outer tube _____ inch x _____ inch x _____ inch square tube with an inner tube _____ inch x _____ inch x _____ inch
 - Will the inner tube slide inside of the outer tube _____ YES _____ NO
 - X7.5.2.1 Cylinder _____ inch x _____ inch to slide the inner tube through the outer tube to adjust push arm length _____ YES _____ NO
 - X7.5.2.2 Cylinder _____ inch x _____ inch that attaches to the two (2) point attachment on the truck and to the bottom push arm to lift and tuck the wing in as tight to the truck as possible _____ YES _____ NO
 - X7.5.2.3 Are cylinders nitrated for superior wear and corrosion resistant _____ YES _____ NO

X7.6 Rear Wing Tower Left Hand:

- X7.6.1 Rear wing truck attachment I-beam: _____ inch of _____ lb/ft
 - X7.6.1.1 I-beam is supported by _____ inch half moon steel
- X7.6.2 Does rear wing have two (2) point attachment for the bottom push arms and for the tilt cylinder to lift the wing into the carry position _____ YES _____ NO

- X7.6.3 Attachment to the truck _____ inch x _____ inch plate steel across the top of the truck frame as close to the cab as possible _____ YES _____ NO
- X7.6.3.1 Does this plate have gussets at the high stress points _____ YES _____ NO
- X7.6.3.2 Angle welded to this point _____ inch x _____ inch which runs parallel to the truck frame and bolt tight to same _____ YES _____ NO
- X7.6.4 Is attachment designed to allow for adjustment of angle as well as height at time of installation to assure proper operation _____ YES _____ NO
- X7.6.5 Is there a valve enclosure box with cover bolted to this rear attachment _____ YES _____ NO
- X7.7 Wing Stand Off Arms Left Hand:
- X7.7.1 Are the wing push arms of the heavy duty type _____ YES _____ NO
- X7.7.2 Bottom push arms constructed of outer tube _____ inch x _____ inch x _____ inch square tube
With an inner tube _____ inch x _____ inch x _____ inch
Will the inner tube slide inside of the outer tube _____ YES _____ NO
- X7.7.2.1 Size of cylinder that slides the inner tube through the outer tube to adjust push arm length
_____ inch x _____ inch
- X7.7.2.2 Size of cylinder that attaches to the two (2) point attachment on the truck and to the bottom push arm to lift and tuck the wing in as tight to the truck as possible:
_____ inch x _____ inch
- X7.7.2.3 Are the cylinders nitrated for superior wear and corrosion resistant _____ YES _____ NO
- X7.8 Trip Wing Hinge:
- X7.8.1 Is the wing attached to the front wing post with a trip hinge _____ YES _____ NO
- X7.8.2 Is the hinge designed to allow the wing to trip and reset automatically when hitting an obstruction _____ YES _____ NO
- X7.8.3 Is reset with a rubber compression and not with coil spring _____ YES _____ NO
- X7.8.4 Does the hinge have two (2) offset hinges to lift the wing as it trips _____ YES _____ NO
- X7.9 Trip Wing Hinge Left Hand:
- X7.9.1 Is the wing attached to the front wing post with a trip hinge _____ YES _____ NO

X7.9.2 Is hinge designed to allow the wing to trip and reset automatically when hitting an obstruction YES NO 30

X7.9.3 Is the reset with a rubber compression and not with coil spring YES NO

X7.9.4 Does the hinge have two (2) offset hinges to lift the wing as it trips YES NO

X7.10 Side Wing (Right Side):

X7.10.1 Is the side wing designed for the right side of the truck and heavy duty YES NO

X7.10.2 Side wing overall length _____ inches with _____ inch x _____ inch cutting edge

X7.10.3 Nose height _____ inches and discharge height _____ inches

X7.10.4 Cutting edge backer _____ inches x _____ inches x _____ inches with gussets and punched to accept _____ punch cutting edge

X7.10.5 Backer has _____ inch ribs

X7.10.6 Does the leader have at least 1 inch plate steel and has two (2) to accept a 1 1/4 inch wing bolt YES NO

X7.10.7 Is the top of the ribs welded to a 3 inch x 3 inch x 3/8 inch angle running the full length of the top of the wing YES NO

X7.10.8 Wing skin is _____ gauge steel

X7.10.9 Does back of wing have several places longitudinally to allow the push arms to be attached at proper angles YES NO

X7.10.10 Is steel on wing sand blasted before primer and back of wing painted orange YES NO

Paint manufacturer & number: _____

X7.11 Side Wing (Left Side):

X7.11.1 Is side wing designed for the left side of the truck and heavy duty YES NO

X7.11.2 Side wing overall length _____ inches with _____ inch x _____ inch cutting edge

X7.11.3 Nose height _____ inches and discharge height _____ inches

X7.11.4 Cutting edge backer _____ inches x _____ inches x _____ inches with gussets and punched to accept _____ punch cutting edge

X7.11.5 Backer has _____ inch ribs

- X7.11.6 Does the leader have at least 1 inch plate steel and has two (2) to accept a 1 1/4 inch wing bolt
_____ YES _____ NO
 - X7.11.7 Is the top of the ribs welded to a 3 inch x 3 inch x 3/8 inch angle running the full length of the top of the wing
_____ YES _____ NO
 - X7.11.8 Wing skin is _____ gauge steel
 - X7.11.9 Does back of wing have several places longitudinally to allow the push arms to be attached at proper angles
_____ YES _____ NO
 - X7.11.10 Is steel on wing sand blasted before primer and back of wing painted orange _____ YES _____ NO
- Paint manufacturer & number: _____

X7.12 Reversible:

- X7.12.1 Does path have a clearing path of 12 feet in the bulldozer position and clear 9 feet 8 inches at 30 degrees
_____ YES _____ NO
- X7.12.2 Overall height of plow _____ inches
- X7.12.3 Top of moldboard _____ inch x _____ inch tubular steel running parallel to the ground
- X7.12.3.1 Number and size of ribs welded to this tube: _____ inch ribs
- X7.12.3.2 Bottom of ribs welded to a 4 inch x 6 inch x 5/8 inch boxed hinge and spring support
_____ YES _____ NO
- X7.12.4 Are the hinges the support for the trip edge section
_____ YES _____ NO
- X7.12.5 Cutting edge backer _____ inch x _____ inch x _____ inch angle supported by _____ plate hinges flame cut of _____ inch steel
- X7.12.6 Does trip section have one (1) piece trip and become three (3) section by removing two (2) 1 inch section bolts allowing the cutting edge to be three (3) section trip
_____ YES _____ NO
- X7.12.7 Is trip section reset after hitting an obstruction by coil springs mounted vertical behind the trip mechanism
_____ YES _____ NO
- X7.12.8 Coil spring wound of _____ inch wire and has _____ coils
- X7.12.9 Number of spring retainer holes to allow for spring tension adjustment: _____
- X7.12.10 Is replaceable cutting edge 1/2 inch x 8 inches mounted by 5/8 inch bolts on 8 inch center
_____ YES _____ NO
- X7.12.11 Is backer iron for cutting edge punched to receive both 8 inch AHD 3-3-12 replacement edges
_____ YES _____ NO

- X7.12.12 Number of mold board shoes: _____ Number of curb shoes: _____
Is one (1) left side and one (1) right side _____ YES _____ NO
- X7.12.12.1 Curb shoes _____ foot shaft with 65K Rockwell hardness _____ YES _____ NO
- X7.12.13 Mold board skin _____ gauge steel and welded to the top, ribs, and bottom supports
_____ YES _____ NO
- X7.12.14 Is a-frame 4 inch x 4 inch x 3/8 inch tubular steel and pin to the main frame support tube
_____ YES _____ NO
- X7.12.15 Main frame support _____ inch x _____ inch x _____ inch tubing
- X7.12.16 Is a-frame reversing table cut flame cut 1/2 inch plate steel _____ YES _____ NO
Width: _____ inches
- X7.12.17 Does the evener plate have stops to restrict the plow from listing more than 25 degrees
_____ YES _____ NO
- X7.12.18 Plow is attached to the truck with _____ ears of _____ inch steel
- X7.12.18.1 Ears are on _____ inch centers
- X7.12.19 Is reversing achieved with two (2) industrial type cylinders with a 1 1/2 inch shaft, 3 inch barrel
and a 18 inch stroke _____ YES _____ NO
- X7.12.19.1 Are cylinders protected with built in cushion valve _____ YES _____ NO
- X7.12.20 Does push frame pin to the mold board providing the capability of adjusting the cutting edge
angle to the road after the plow has been attached to the truck _____ YES _____ NO
- X7.12.21 Is the lifting device a pulley and cable design to allow the plow to be raised with a minimum of
Lift _____ YES _____ NO
- X7.12.22 Will all steel be sand blasted and painted _____ YES _____ NO
- X7.13 Control Valves:
- X7.13.1 Are control valves commercial _____ YES _____ NO
- X7.13.2 Are there six (6) section right front wing, right rear wing, right telescopic, left front wing, left
rear wing, and left telescopic _____ YES _____ NO
- X7.13.3 Manufacturer and model of cab controls push pull cables: _____
- X7.13.4 Do the controls for dump have built in lock out to prevent accidental actuation
_____ YES _____ NO
- X7.13.5 Will you mount controls as directed by West Virginia Division of Highways Equipment Division
_____ YES _____ NO

X7.13.6 Do valves have a built in relief YES NO

X7.14 Hoses and Fittings:

X7.14.1 Are all hydraulic hoses and fittings JIC with o-ring boss thread adaptors YES NO

X7.14.2 Are hoses and fittings placed so as not to be damaged from rubbing or heat YES NO

X7.14.3 Will hoses be wrapped with loom for protection as needed YES NO

X7.15 Installation:

X7.15.1 Will equipment be mounted neatly on trucks furnished by Division of Highways YES NO

X7.15.2 Will installation include all hoses, fittings, and other appurtenance required to have a complete and ready unit YES NO

X7.15.3 Will plow lights be mounted top of plow frame with the system YES NO

X7.15.4 Will all steel be sandblasted before primer and paint is applied YES NO

X7.15.5 Will you have insurance to cover trucks while at mounting facility and during transport YES NO

X7.16 All other features considered as standard:

X7.17 Will snowplow offered comply with OSHA OF 1970 and subsequent amendments YES NO

X7.18 Will advertising conform to the guidelines YES NO

X7.19 Will all loose hardware be in a separate container for each plow and shipped with each plow YES NO

A F F I D A V I T

West Virginia Code §5A-3-10a states:

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions.

"Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING:

The vendor must be licensed in accordance with any and all state requirements to do business with the state of West Virginia.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: _____

Authorized Signature: _____ Date: _____