

**BID PREPARED FOR**

**STATE OF WEST VIRGINIA**

**"STREET SWEEPER RFQ # 708ECO12"**



*Golden Equipment Co., Inc.*

Main Office ♦ PO Box 873 ♦ Mars, Pennsylvania 16046

(800) 242-1494 ♦ (724) 625-3100 ♦ Fax (724) 625-3744

WWW.GOLDENEQUIPMENTCOMPANY.COM

NT CO. INC

# Golden Equipment Co., Inc.

Main Office ♦ P.O. Box 873 ♦ Mars, PA 16046

(800) 242-1494 ♦ (724) 625-3100 ♦ Fax: (724) 625-3744

Public Works

Sewer

Contractors Equipment

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May 23, 2008

State of West Virginia Department of Administration  
Purchasing Division  
2019 Washington Street, East  
Charleston, West Virginia 25305-0130

Reference: RFQ 708ECO012

We respectfully submit the following information for your consideration. After reviewing the addendum received on May 21, 2008 we are submitting our bid with exceptions.

The Tymco has been manufactured for the past 40+ years. All of the exceptions requested during the pre-bid meeting were to open this spec up to be non manufacture specific.

The value and durability of the Tymco product is quite evident in the fact that you currently own and operate 1983 units. Golden Equipment has provided parts support in a timely manner for these 25 year old machines.

Golden Equipment has been a Tymco dealer for 23 years. It is with great passion and appreciation that we value your business now and in the future.

Sincerely,



Dave Johnston  
Vice President Sales, Operations



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  
**708EC012**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**MICHAEL AUSTIN**  
**304-558-2402**

VENDOR

\*709020209      412-625-3100  
 GOLDEN EQUIPMENT CO INC  
 PO BOX 873  
 MARS PA 16046

SHIP TO

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

DATE PRINTED <b>04/02/2008</b>	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **05/07/2008**      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		765-77	\$ 159,940.00	\$159,94.00
<p><b>AIR STREET SWEEPER</b></p> <p><b>OPEN END CONTRACT</b></p> <p>TO PROVIDE TRUCK MOUNTED REGENERATIVE AIR STREET SWEEPER PER THE ATTACHED SPECIFICATIONS.</p> <p>THERE WILL BE A MANDATORY PRE-BID CONFERENCE AT THE STATE CAPITAL COMPLEX 2019 WASHINGTON, ST. EAST CHARLESTON, WV. AT 10:00 AM ON 04/24/2008. FAILURE TO ATTEND THE PRE-BID CONFERENCE WILL RESULT IN BID DISQUALIFICATION.</p> <p>QUESTIONS: WRITTEN QUESTIONS WILL BE ACCEPTED THROUGH CLOSE OF BUSINESS (5:00 PM EST.) ON FRIDAY 04/18/08.</p> <p>SEND YOUR QUESTIONS TO: PURCHASING DIVISION          ATTENTION: MICHAEL AUSTIN          2019 WASHINGTON STREET EAST          CHARLESTON, WV 25305</p> <p>QUESTIONS MAY BE SENT VIA FAX, E-MAIL, OR REGULAR MAIL          E-MAIL: MICHAEL.D.AUSTIN@WV.GOV          FAX: 304-558-4115</p> <p>IT IS THE VENDORS RESPONSIBILITY TO VERIFY THAT THEIR QUESTIONS HAVE BEEN RECEIVED BY CALLING 304-558-2402.</p> <p>EXHIBIT 2</p>						
<p>2 year warranty unit in price on truck &amp;</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: TELEPHONE: **724-625-3100** DATE: **5/27/08**

TITLE: **President** FEIN: **25-1537261** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**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 \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, 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 may be deemed null and void, and 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.

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**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. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office 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.

**SIGNED BID TO:**

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



State of West Virginia  
 Department of Administration  
 Purchasing Division  
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**PO BOX 873**  
**MARS PA 16046**

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/02/2008				

D OPENING DATE: **05/07/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p><b>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON ..... AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING THIRTY (30) DAYS WRITTEN NOTICE.</b></p> <p><b>UNLESS SPECIFIC PROVISIONS ARE STIPULATED IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</b></p> <p><b>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</b></p> <p><b>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</b></p> <p><b>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</b></p>						

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TILE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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<p><b>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIES BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</b></p> <p><b>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN EQUIPMENT CONTRACT ORDER (FORM NUMBER WV-35) FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL WV-35 MUST BE SENT TO THE PURCHASING DIVISION OF THE DEPARTMENT OF ADMINISTRATION. AFTER APPROVAL AND ENCUMBRANCE, ONE COPY OF THE PURCHASE ORDER WILL BE RETURNED TO THE SPENDING UNIT AND ONE COPY FORWARDED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT. NO ORDER IS VALID UNLESS APPROVED AND ENCUMBERED BY THE PURCHASING DIVISION.</b></p> <p><b>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</b></p> <p><b>REV. 9/98</b></p> <p><b>EXHIBIT 6</b></p> <p><b>PRICE ADJUSTMENT PROVISION: THE STATE OF WEST VIRGINIA WILL CONSIDER BIDS THAT CONTAIN PROVISIONS FOR PRICE ADJUSTMENTS PRIOR TO THE ORIGINAL EXPIRATION OF THE CONTRACT, PROVIDED THAT SUCH PRICE ADJUSTMENT COVERS BOTH UPWARD AND DOWNWARD MOVEMENT OF THE COMMODITY PRICE, AND THAT ADJUSTMENT IS BASED ON THE "PASS THROUGH" INCREASE OR DECREASE OF</b></p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE \_\_\_\_\_ TELEPHONE \_\_\_\_\_ DATE \_\_\_\_\_

TITLE \_\_\_\_\_ FEIN \_\_\_\_\_ ADDRESS CHANGES TO BE NOTED ABOVE



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<p>RAW MATERIALS AND/OR LABOR, WHICH MAKE UP ALL OR A SUBSTANTIAL PART OF A PRODUCT. ADJUSTMENTS ARE TO BE BASED UPON AN ACTUAL DOLLAR FIGURE, NOT A PERCENTAGE. ALL PRICE ADJUSTMENT REQUESTS MUST BE SUBSTANTIATED IN A MANNER ACCEPTABLE TO THE DIRECTOR PURCHASING, E.G. GOVERNMENTAL BENCH MARKS, GENERAL MARKET INCREASE, PUBLISHED PRICE LISTS. SUCH REQUESTS FOR AND INCREASE SHOULD BE RECEIVED IN WRITING BY THE DIRECTOR OF PURCHASING AT LEAST 30 DAYS IN ADVANCE OF THE EFFECTIVE DATE OF THE INCREASE. ANY TIME THE VENDOR REQUESTS A PRICE ADJUSTMENT, THE PURCHASING DIVISION MAY EITHER ACCEPT THE PRICE ADJUSTMENT AND AMEND THE CONTRACT ACCORDINGLY OR REJECT THE ADJUSTMENT IN ITS ENTIRETY AND CANCEL THE CONTRACT.</p> <p>EXHIBIT 4</p> <p>LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER.</p> <p>REV. 3/88</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.: <b>708EC012</b></p>						

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<p><b>ADDENDUM ACKNOWLEDGEMENT</b></p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 ✓ .....</p> <p>NO. 2 ✓ .....</p> <p>NO. 3 ✓ .....</p> <p>NO. 4 .....</p> <p>NO. 5 .....</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: right;">             .....            SIGNATURE            Golden Equipment Co., Inc.            COMPANY         </p>						

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
					5/27/08	
					DATE	
					REV. 11/96	
					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) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR	
					( ) BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH	

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<p>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 &amp; REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH 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</p>						

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SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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<p><b>CONTRACT OR PURCHASE ORDER.</b></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 PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <u>Golden Equipment Co, Inc.</u></p> <p>DATE: <u>5/27/08</u></p> <p>SIGNED: <u>[Signature]</u></p> <p>TITLE: <u>President</u></p> <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".</p>						

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SIGNATURE	TELEPHONE	DATE	
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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
708EC012

PAGE
9

ADDRESS CORRESPONDENCE TO ATTENTION OF
MICHAEL AUSTIN 304-558-2402

\*709020209 412-625-3100  
 GOLDEN EQUIPMENT CO INC  
 PO BOX 873  
 MARS PA 16046

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
04/02/2008				

BID OPENING DATE: 05/07/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
(REV. 12/00)  <b>NOTICE</b>  <b>A SIGNED BID MUST BE SUBMITTED TO:</b>  DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130  <b>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</b>  <b>SEALED BID</b>  <b>BUYER: 33</b> <b>RFQ. NO.: 708EC012</b> <b>BID OPENING DATE: 05/07/2008</b> <b>BID OPENING TIME: 1:30 PM</b>  <b>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</b>  ----- 724-625-3744 -----						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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  
**708EC012**

PAGE  
**10**

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
**MICHAEL AUSTIN**  
**304-558-2402**

VENDOR

\*709020209      412-625-3100  
**GOLDEN EQUIPMENT CO INC**  
**PO BOX 873**  
**MARS PA 16046**

SHIP TO

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

DATE PRINTED <b>04/02/2008</b>	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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D OPENING DATE: **05/07/2008**      **BID OPENING TIME 01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
CONTACT PERSON (PLEASE PRINT CLEARLY):						
----- <i>Pave Johnston</i> -----						
***** THIS IS THE END OF RFQ 708EC012 *****						<u>\$159,940.00</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE <b>724-625-3100</b>	DATE <b>5/27/08</b>
TITLE <b>President</b>	FEIN <b>25-1537261</b>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS  
NO. 044-1-B

OPEN END CONTRACT  
TRUCK MOUNTED REGENERATIVE AIR STREET SWEEPER

1.0 PURPOSE

It is the purpose of these specifications to describe a Truck Mounted 6-Wheel Regenerative Air Street Sweeper (hereinafter referred to as a "street sweeper" or a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

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.** Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report. **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, will, 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 each order to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) working 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's 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

Delivery point of the completely assembled representative unit will be the DOH, Equipment Division, Route 33 at Brushy Fork Road, Buckhannon, West Virginia (26201).

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 90 days after receipt of purchase agreement. 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 60 calendar days after receipt 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.**

DOH reserves the right to place multiple orders in any quantity.

## 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, 2008 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 or service 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 each purchase order against this open end contract.** 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 to be shipped direct to WVDOH Training Academy, Post Office Box 610, Buckhannon, West Virginia 26201 prior to delivery of the pilot.**

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.**

**A mandatory minimum two (2) year bumper to bumper basic parts and labor warranty is required for this unit.**

**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:

##### SPECIFICATIONS – CAB AND CHASSIS

7.1 GVW plate rating: 31,000 - 33,000 Lbs.

7.2 **Cab to Axle dimensions:** The distance from centerline of the rear axle to the rear of the sweeper without the wandering hose shall not exceed 52 inches

7.3 **Wheelbase:** Shall not exceed 160 inches

- 7.4 Frame: The manufacturer shall provide a frame that meets or exceeds all Federal requirements for GVWR.**
- 7.4.1 Frame steel: 80,000 PSI minimum**
- 7.5 Cab: Maximum visibility, forward line of sight from the chassis front bumper to the point on the ground visible to the operator shall not exceed 14 feet for an ASE 98th percentile size operator.**
- 7.5.1 Steering shall be full power with dual operator controls, steering system shall have two (2) independent steering columns connected by a cross shaft**
- 7.5.2 Interior of cab shall have acoustical insulation for low operating noise, automotive type trim, and center sweeper console**
- 7.5.3 Unit to be equipped with cruise control feature (fully electronic)
- 7.5.4 Cab door locks, both doors (with key only)
- 7.5.5 Dual Sun visors
- 7.5.6 Cab shall have auxiliary 12v power outlet**
- 7.5.7 Seats: Dual air ride bostrom cloth covered seats fully adjustable
- 7.5.7.1 Seat belts: 3 point lap and shoulder type
- 7.5.8 Floor Mats: Rubber floor mats throughout cab area with non-absorbent backing under the mats
- 7.5.9 Turn Signals: Manufacturers heavy duty, self cancelling type with hazard warning Switch
- 7.5.10 AC, Heater, and Defroster: Fresh air type, heaviest duty
- 7.5.11 Cab shall have full flow through ventilation for optional temperature control and operator comfort**
- 7.5.12 Windshield Wipers and Washers: 2 speed with washer with intermittent feature at both driving positions. **Windshield washer reservoir capacity one (1) gallon minimum**
- 7.5.13 Instruments: Manufacturer's gauges both left and right operation with visual audible, and programmable warning to inform driver when operating conditions are exceeded shall include:**
- 7.5.13.1 Chassis left and right side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, fuel gauge, water temperature gauge, air pressure gauge, volt gauge, oil pressure, and transmission temperature gauges**

- 7.5.13.2 Chassis engine instruments shall include warning light and chime for low oil pressure and high coolant temperature, low oil pressure and low air pressure to warn the operator of a potential problem before any damage to the engine occurs.**
- 7.5.13.2.1 Console shall have left/right primary drivers switch**
- 7.5.13.3 Chassis engine shall have hourmeter**
- 7.5.14 Rearview Mirrors: Dual, West Coast Type, with 8 inch convex spot mirror for easy viewing of the side broom during sweeping, of rust resistant material and mounting brackets
- 7.5.14.1 Mirrors: Fender mounted stainless steel 8 inch convex mirrors shall be provided to increase operator visibility.**
- 7.5.15 Glass: To be manufacturers tinted safety glass; front side, and rear. **Side glass shall have defogger**
- 7.5.16 Radio: Manufacturers standard AM/FM stereo with seek and scan features
- 7.5.17 Air conditioning: Manufacturers fresh air type heaviest duty (Ref. 7.5.10)
- 7.5.18 Front mudflaps to be manufacturers standard for unit bid
- 7.5.19 Emergency triangle warning kit, with hold down (KD 610-464S, KD Lamp Co. or equal) stowed (fastened) in the cab. (Check with DOH before mounting)
- 7.5.20 Accessories not indicated above but are included in the manufacturer's standard cab shall be provided**
- 7.5.21 Successful vendor shall provide WVDOH with complete list of all filters required for normal maintenance on proposed unit**
- 7.6 Engine:
- 7.6.1 Diesel Engine: Shall be 175 HP minimum @ approximately 2200 RPM**
- 7.6.2 Engine shall be equipped with a dual stage dry-type air cleaner, spin on fuel filter, and full flow oil filter**
- 7.6.3 In engine block heater 1250 W, (approximate)
- 7.6.4 A single exhaust pipe with muffler that will meet all Federal noise abatement requirements. Heat shield on vertical exhaust**
- 7.7 Cooling System:
- 7.7.1 The cooling system to be capable of maintaining engine temperature within the manufacturer's recommended range during continuous operation

- 7.7.2 **Radiator fan shall be viscous drive type**
- 7.7.3 **The system shall be filled with extended life OAT (organic acid technology) permanent type antifreeze rated to a -30° F minimum**
- 7.8 Fuel Tanks:
  - 7.8.1 **Capacity: 1 – 50 gallon fuel tank shall be shared by both engines and shall be easily accessible without raising or shifting any components (Inside cab fuel gauge shall be supplied, sight tube not acceptable)**
- 7.9 Electrical System:
  - 7.9.1 Type: 12 volt negative ground system with manufacturer's radio interference Suppression
  - 7.9.2 Batteries:
    - 7.9.2.1 **Shall be in an enclosed accessible environment for ease of service**
    - 7.9.2.2 **Cold Crank AMPS: 1500 AMPS minimum**
  - 7.9.3 **Alternator Capacity: 130 AMPS minimum brushless with internal regulator**
  - 7.9.4 **Lighting: Shall conform to the West Virginia Motor Vehicle Code**
- 7.10 Transmission: Allison Series 2500 (or equal) 5-speed with overdrive
- 7.11 **Rear Axle: Shall be two (2) 8 speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for proper sweeping and transport speeds**
  - 7.11.1 Rated Capacity: 21,000 Lbs.
  - 7.11.2 Rear Spring Capacity: 23,000 Lbs. with multi leaf auxiliary springs
  - 7.11.3 **Rear axle differential, transmission, and front wheel lubrication reservoirs shall be filled with synthetic type lubrication and provided with magnetic drain plugs where applicable**
  - 7.11.4 Unit to be equipped with manufacturers heavy duty rear shock absorbers (if required)
- 7.12 Front Axle:
  - 7.12.1 **Capacity: 12,000 lbs. minimum I-beam type**
  - 7.12.2 Front Spring Capacity: 12,000 lbs.
  - 7.12.3 Manufacturers heavy duty shock absorbers/and stabilizer bar

- 7.13 Brakes should be:
- 7.13.1 Type: Full air with manufacturers ABS through a 4 channel full vehicle wheel control system in compliance with the most current FMVSS requirements
- 7.13.2 Compressor: 13.2 CFM minimum**
- 7.13.3 Parking Brake: Spring set, air release actuating rear axle service brakes. Instrument panel control.
- 7.13.4 Air dryer with heater Bendix Westinghouse AD-9 or equal
- 7.13.5 Manufacturer's standard air tanks for service brakes; auxiliary tank for parking brake
- 7.13.6 Low air pressure warning light and buzzer
- 7.13.7 Brakes shall meet or exceed all current Federal and State FMVSS requirements.**
- 7.13.8 Brake dust covers to be installed on all wheels
- 7.14 Tires and Wheels for safety and to allow emergency interchange of tires at a job site/ front and rear (tires/rims) shall be interchangeable**
- 7.14.1 Wheel, Front and Rear: 22.5 x 8.25 10 hole hub piloted steel disc type, to accommodate specified tire size
- 7.14.2 Tires:
- 7.14.2.1 Front and Rear: 11R22.5G; 14 ply. The rear axle shall have dual tires for load capacity (singles not acceptable)**
- 7.15 Unit shall include all other features considered as manufacturers standard equipment if not specifically addressed above**
- 7.16 Paint: Manufacturers standard
- 7.16.1 The Department reserves the right to view larger paint samples after award of contract.
- 7.16.2 In order to test the adhesive quality of the paint, the DOH may, at its option, require that the vendor measure adhesion by the criteria set forth in ASTM D3359-74, Method B. A rating of less than 4 on this test would be deemed unacceptable.
- 7.17 Vendor must certify that the unit offered will meet or exceed the "Occupational Safety and Health Act of 1970" and subsequent amendments.**
- 7.18 Advertising: No visible decals or nameplates or painted on names representing the manufacturer or model number or trademark should appear on the exterior of the unit. Logos created through the stamping or casting process of manufacture are acceptable.

7.19 Preventive Maintenance and Operator's Training School

**7.19.1 Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects Preventive Maintenance and Operator Training. The seminar should be held at the Equipment Division, Buckhannon, W. Va.**

7.19.2 In addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Training procedures to be used by the operators of this equipment, include such things as daily pre-start, inspection procedure, service schedule and routine maintenance required, safety precautions, etc.

**7.19.3 The successful vendor shall conduct training of the completed unit.**

**Bidder shall attach a copy of the proposed program with his bid, state the time required to perform the program and briefly describe his program.**

8.0 SPECIFICATIONS OF SWEEPER MODULE

New Regenerative Air Street Sweeper having a 6-wheeled, truck chassis with dual diesel engines, sweeper controls and switches, 8.0 cubic yard hopper, automatic transmission, 220 gallon water tank, left and right side broom with variable down pressure controlled from the cab.

8.1 Water Tank:

**8.1.1 Tank capacity shall be 220 gallon of water minimum**

8.2 Sweeper Engine:

**8.2.1 Diesel – Must be Tier 3 Emission compliant, 4 cylinder turbocharged, 276 CID John Deere 4045T or equal**

**8.2.2 Horsepower: Minimum 115 HP @ 2500 RPM, minimum torque 291 lb. ft. @ 1400 RPM**

8.2.3 Engine should be wet sleeved

**8.2.4 Unit shall have dual element dry type air cleaner with restriction indicator**

**8.2.5 Engine coolant shall be extended life OAT (organic acid technology) permanent type antifreeze protected to -30° F**

**8.2.6 Sweeper engine shall drive the blower fan by a heavy duty five (5) "V" groove power belt**

**8.2.7 Sweeper engine shall be in an enclosure for sound attenuation, enclosure to include doors for access to serviceable items or tilt hopper**

8.3 Blower:

**8.3.1 Blower shall be rated at a minimum 17,000 CFM by an independent test facility (documentation shall be attached)**

- 8.3.2 **Operation speed of the fan shall be minimum 2,000 RPM**
- 8.3.3 **Blower shall be of the closed or open face turbine type, minimum nine (9) vans, 31 3/8 inch diameter**
- 8.3.4 Blower to be constructed of abrasion resistant steel
- 8.3.5 Blower housing to be constructed of 10 gauge steel and lined with Linafex or 3/8 inch corded rubber shall not be part of the hopper
- 8.3.6 **Blower housing shall have an inspection door (air exhaust opening)**
- 8.3.7 Blower to be mounted and supported on both sides by heavy duty greasable bearing
- 8.3.8 **Bearings shall be greasable from ground level, without tilting the hopper**
- 8.4 Pick Up Head:
  - 8.4.1 **The pick up head shall be spring balanced**
  - 8.4.2 Pick up head to be all steel construction with upper and lower chambers
  - 8.4.3 **Minimum 87 inches wide**
  - 8.4.4 **Minimum 30 inches high**
  - 8.4.5 **Minimum total area 2610 square inches**
  - 8.4.6 **Minimum 14 inch diameter pressure hose between blower outlet with the pickup head (urethane transition hose not acceptable)**
  - 8.4.7 **Minimum 12 3/4 inch diameter suction hose with quick disconnect**
  - 8.4.8 **In cab electric operated pressure relief valve/vacuum enhancer/leaf bleeder for optimum leaf and light debris sweeping, shall be supplied on pressure side**
  - 8.4.9 **Front and rear debris curtains shall be removable without removing the pick up head from the unit**
  - 8.4.10 Sweeping Path:
    - 8.4.10.1 **Pick up head only – minimum 87 inches**
    - 8.4.10.2 **One (1) side broom and pick up head – minimum 110 inches**
    - 8.4.10.3 **Two (2) side broom and pick up head – minimum 142 inches**
  - 8.4.11 **Pick up head shall be equipped with side mounted adjustable steel runners with carbide inserts. Minimum width 1 1/8 inches**



- 8.4.12 **Raise and lower of pick up head shall be done hydraulically by a rocker switch on the control panel inside the cab**
- 8.4.13 **A center broom in the rear or front of the pick up head shall be supplied, to be controlled by rocker switch in cab**
- 8.4.13.1 **Center broom shall be hydraulic driven**
- 8.4.13.2 **Center broom minimum 66 inches long**
- 8.4.13.3 **Center broom minimum 10 inches in diameter**
- 8.5 **Side Brooms:**
  - 8.5.1 **Right and left broom shall be a free floating trailing arm design with inward motion safety to prevent damage when sweeping and encountering fixed obstacles**
  - 8.5.2 **Trailing arm shall be of parallelogram design**
  - 8.5.3 **Brooms shall be minimum 42 inches diameter**
  - 8.5.4 **Brooms shall be hydraulically driven**
  - 8.5.5 **Brooms must be pneumatically or hydraulically raised, lowered, and suspended**
  - 8.5.6 **Broom down pressure must be pneumatically controlled from the cab by operator or automatic by load and speed sensing hydraulics**
  - 8.5.7 **Broom hydraulic motor drive must have minimum 6045 in/lbs. of torque**
  - 8.5.8 **Side brooms to have greaseless pivot pins and/or grease zerc**
  - 8.5.9 **Transport hook shall hold side broom assemblies in storage position or hydraulic lock in system**
  - 8.5.10 **Rocker switches in cab are used to control side broom**
  - 8.5.11 **Side broom retraction while sweeping to provide scrubbing action must be controlled from the operator seat**
  - 8.5.12 **Right side broom shall tilt inward and outward from cab while sweeping by means of electrically controlled linear actuator**
- 8.6 **Hopper:**
  - 8.6.1 **Volumetric capacity – minimum 7.3 cubic yards**
  - 8.6.2 **Construction – minimum 10 gauge steel sides, minimum 3/16 inch floor**

- 8.6.3 **Weight actuated full load indicator must be mounted in the cab on control panel**
- 8.6.4 **Dump angle minimum 50°**
- 8.6.5 **Dump angle shall be achieved by use of 2 stage telescopic cylinder or dual hydraulic cylinders**
- 8.6.6 **Floor angle minimum 3°**
- 8.6.7 **Abrasion resistant “scoop” style steel deflector shall be located at the suction inlet to direct material to the center of hopper**
- 8.6.8 **Hopper rear door must be hinged at the top of the door and opened by hydraulic Cylinder**
- 8.6.9 **Hopper rear door opening minimum 90° angle**
- 8.6.10 **Right hand side (passenger side) of hopper shall have hydraulic valve levers to operate hydraulic cylinder movement**
- 8.6.11 **Hopper rear door must have internal door prop**
- 8.6.12 **Hopper rear door to have automatic lock mechanism for tight fit**
- 8.6.13 **Hopper rear door seal must be water resistant reinforced**
- 8.6.14 **Hopper screens shall be hinged for easily cleaning and inspection**
- 8.6.15 **Total hopper screen area minimum 3,000 square inches**
- 8.6.16 **Hopper screen material minimum 11 gauge steel**
- 8.6.17 **A minimum eight (8) inch inside diameter by 9.5 foot long hydraulic wandering hose located at rear of unit for cleaning catch basins shall be provided**
- 8.6.18 **An eight (8) inch diameter by four (4) foot long catch basin nozzle with water injection and quick clamp shall be provided. An additional eight (8) inch diameter by four (4) foot aluminum extension with quick clamps shall be provided.**
- 8.6.19 **Push button finger tip hydraulic control on the nozzle handles to raise and lower nozzle to be supplied**
- 8.6.20 **Rear auxiliary engine must have throttle control**
- 8.6.21 **Hopper hose must be heavy duty rubber (Plastic hoses not acceptable)**
- 8.6.22 **In addition to the standard outside dumping controls, in cab controls shall be provided**

- 8.6.23 Right side (curb side) of hopper shall have inspection door**
- 8.6.24 For easy access to inspection door, an additional step and rear handle mounted on rear bumper and right rear side of hopper to be provided or access doors on each side of hopper
- 8.6.25 Rear of sweeper must have bumper to protect against underride obstacles and shall be designed as to not allow dumping debris on top of said bumper**
- 8.6.26 Protection to the hopper against corrosion and wear and to facilitate the removal of debris when dumping shall be provided**
- 8.6.27 Bare steels including stainless steels are not acceptable
- 8.6.28 Protection system shall provide protection such that the hopper will be warranted for life of sweeper. The liner shall be Life Liner or approved equal.**
- 8.7 Dust Separator:
- 8.7.1 Dirt separation from the air stream must be accomplished by means of a labyrinth style dust separator installed at air return outlet of the hopper or a circular, cyclonic multi pass.**
- 8.7.2 Separator to be designed as to not allow plugging with regular debris
- 8.7.3 Dust separator shall have easy access for cleaning of the separator interior and Inspection**
- 8.7.4 Dust separator to have self opening door made of abrasion resistant steel to allow automatic discharge of debris when tilting hopper
- 8.8 Spray Water System:
- 8.8.1 Tank total capacity – 220 gallons
- 8.8.2 Construction – Rust proof polyethylene
- 8.8.3 Tank shall be removable type, sharing no common wall with hopper**
- 8.8.4 Tank must not raise during hopper dumping**
- 8.8.5 Fill hose minimum 16 foot 8 inches with NST coupling with strainer must be supplied**
- 8.8.6 Water level gauge will be control console mounted within the cab**
- 8.8.7 Water lines must be color coded**
- 8.8.8 Ball valve in filter inlet shall be provided to prevent water loss while cleaning filter**

- 8.8.9 Filter must be easy to access and clean without tipping hopper
- 8.8.10 All water piping must be external to operator cab (No lines within cab)
- 8.8.11 Minimum three (3) spray nozzles at each side broom for dust control to be provided
- 8.8.12 Spray nozzles shall be mounted on pivoting brackets
- 8.8.13 Inside the pick up head shall have minimum five (5) easily removable water spray nozzles
- 8.8.14 Suction hose must have minimum two (2) easily removable spray nozzles
- 8.8.15 Water flow to pick up head, suction hose, side brooms shall be by two (2) electric 12 volt, diaphragm type pumps or electric roller pump, belt driven cat triplex
- 8.8.16 Diaphragm type pumps must provide minimum six (6) GPM @ 30 PSI combined, roller style pump with up to 100 psi, or Cat Triplex style pump with up to 55 psi
- 8.8.17 Each pump must have two (2) flow rates controlled by the operator within cab or controlled with on/off switch and single flow rate
- 8.8.18 An additional spray bar mounted under the front bumper with cab controls shall be provided for extreme sweeping conditions.
- 8.8.19 Water spray line to the center broom shall be provided for increased dust suppression.
- 8.8.20 Quick disconnect for high pressure wash down must be easily accessible on right side of sweeper
- 8.9 Hydraulic System:
  - 8.9.1 Hydraulic Pump – gear driven (belt or PTO driven not acceptable)
  - 8.9.2 Hydraulic Pump Output – minimum 7.7 GPM @ 2500 RPM
  - 8.9.3 Reservoir Capacity – minimum 23 gallons
  - 8.9.4 Tank shall have exterior sight gauge
  - 8.9.5 Reservoir should be located within the enclosed auxiliary engine compartment
  - 8.9.6 All hydraulic circuits must have quick disconnect pressure check ports
  - 8.9.7 All high pressure fittings must be “o” ring face seal type or JIC type

- 8.9.8 **All hydraulic filters, air or fluid shall be manufacturers standard**
- 8.9.9 **Electric/hydraulic auxiliary pump shall be supplied to raise/lower the hopper, open/close hopper rear door without running auxiliary engine**
- 8.10 **Pneumatic System (if required):**
- 8.10.1 **A PR4 type pressure protector for the chassis air system must be provided to protect system when pressures drop below 85 PSI**
- 8.10.2 **Sweeper air components shall have separator air tank**
- 8.10.3 **All pneumatic cylinders shall be rated to 150 PSI and have a separate rod seal and wiper to prevent contamination entering the cylinder**
- 8.10.4 Each cylinder to be controlled by a single, two (2) position, solenoid valve mounted on a manifold with common input and exhaust
- 8.10.5 **A poly carbonate bowl type filter shall be used to filter out contamination of the air System**
- 8.11 **Electrical System:**
- 8.11.1 **Sweeper electrical system must be separate of the chassis electrical system**
- 8.11.2 **Sweeper engine battery – (1) 925 CCA minimum, 12 volt battery or share with truck chassis**
- 8.11.3 **Sweeper engine alternator – minimum 95 AMP**
- 8.11.4 **Sweeper shall have OSHA approved back up alarm**
- 8.11.5 Sweeper lighting to include rear identification lights, side broom, and rear clearance Lights
- 8.11.6 **Sweeper warning lights shall include hopper up and hopper full load**
- 8.11.7 **Sweeper wiring harnesses must be color coded and function stamped every six (6) inches**
- 8.11.8 **All electrical circuits shall be protected by manual re-settable circuit breakers**
- 8.11.9 Manufacturers recommended LED arrowboard rear mounted to be provided
- 8.12 **Controls:**
- 8.12.1 All sweeper controls to be mounted on a stationary central console that allows for use from either right or left positions
- 8.12.2 Controls to include all sweep, spray water, and lighting functions

8.12.3 Conventional rocker switches are to be used to control sweep, spray water, and lighting functions

**8.12.4 Controls for auxiliary engine ignition and throttle, side broom down pressure, and manual reset circuit breakers shall be located in the control console**

8.13 Instruments:

8.13.1 Sweeper engine instruments to include:

8.13.1.1 Tachometer

8.13.1.2 Hour meter

8.13.1.3 Oil pressure

8.13.1.4 Fuel

8.13.1.5 Voltage

8.13.1.6 Coolant temperature

8.13.1.7 Air intake restriction indicator

8.13.1.8 Raised hopper indicator

8.13.1.9 Full hopper indicator

8.14 Accessories:

**8.14.1 A 2 1/2 lb. fire extinguisher must be provided**

**8.14.2 A hydrant wrench for fire hydrant to fill water shall be provided**

**8.14.3 A rear mounted flood light with cab control shall be provided**

**8.14.4 A sweep resume feature must be provided. It must include automatic pickup of side brooms and pickup head and return to idle when sweep resume control is activated or when truck transmission is put in reverse, and return to previous sweeping positions when transmission is taken out of reverse or sweep resume control is returned to sweeping position.**

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT  
NO. 044-1-B

OPEN END CONTRACT  
TRUCK MOUNTED REGENERATIVE AIR STREET SWEEPER

NOTE TO BIDDER: Procurement Specification No. 044-1-B, 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. Addendums in order, along with a summary of exception as a separate attachment, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: 708 EC 012

Bidder's Name: Golden Equipment Co. Inc.

Address: PO Box 873 Mars, PA 16046

Telephone Number: 800-242-1494

Years Bidder has been registered to do business with the State of West Virginia: 22 YRS.

Years Company has been an authorized dealer for proposed unit: 23 YRS.

X3.2 Have you complied with all mandatory specifications? YES  YES  NO

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 30-45 Calendar Days After Receipt of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 90-180 Calendar Days After Receipt of Purchase Agreement  
subject to Chassis Availability

**NOTE: Vendors can complete the Bid Schedule at Purchasing's Web Site**  
**[www.state.wv.us/admin/purchase](http://www.state.wv.us/admin/purchase)**

X5.0 AWARD CRITERIA;

X5.1 Price for each unit: \$159,940.00

X6.0 SPECIFICATIONS - GENERAL

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

Tymco 1600 BAH Regenerative Air Sweeper  
Is descriptive literature, fully describing proposed unit attached to your bid?  YES  NO

If not, why? \_\_\_\_\_

X6.2 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 WVDOT.

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 directly to Training Academy prior to the delivery of the pilot?  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

Is a minimum two (2) year bumper to bumper basic parts and labor warranty included?  YES \_\_\_ NO

Describe:

\_\_\_\_\_  
\_\_\_\_\_

**X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE**

**THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID.**

(If additional lines are needed, make copies of form.)

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

See Attached Disclosure / Per Spec

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.

Chassis local Dealer  
Sweeper on site

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

N/A

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: 0 % discount
- B. Terms: Net 60      Manufacturer's published list price less: 0 % discount
- C. Terms: Net 90      Manufacturer's published list price less: 0 % discount

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

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

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

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.

SPECIFICATIONS - CAB AND CHASSIS

Manufacturer: GMC / International Model: T7500 / 4300-M7

X7.1 GVW Plate Rating: 33,000 / 29,000 Lbs. Detailed spec attached

X7.2 Cab to Axle dimensions: Distance from centerline of the rear axle to the rear of the sweeper without the wandering hose 68 inches

X7.3 Wheelbase: \_\_\_\_\_ inches GMC 170" / International 160"

X7.4 Frame: Does the frame meet or exceed all Federal requirements for GVWR  YES  NO

X7.4.1 Frame steel: 80,000 / 50,000 psi

X7.5 Cab: Maximum visibility, forward line of sight from the chassis front bumper to the point on the ground visible to the operator \_\_\_\_\_ feet for an ASE 98<sup>th</sup> percentile size operator  
Per spec 6

- X7.5.1 Is steering full power with dual operator controls  YES  NO
- Does steering have two (2) independent steering columns connected by a cross shaft  YES  NO
- X7.5.2 Does interior of cab have acoustical insulation for low operating noise, automotive type trim, and center sweeper console  YES  NO
- X7.5.3 Is unit equipped with cruise control feature (fully electronic)  YES  NO
- X7.5.4 Cab door locks, both doors (with key only)  YES  NO
- X7.5.5 Dual sun visors  YES  NO
- X7.5.6 Does cab have auxiliary 12v power outlet  YES  NO
- X7.5.7 Seats: Dual air ride bostrom cloth covered seats fully adjustable  YES  NO
- X7.5.7.1 Seat belts: 3 point lap and shoulder type  YES  NO
- X7.5.8 Floor Mats: Rubber floor mats throughout cab area with non-absorbent backing under mats  YES  NO
- X7.5.9 Turn Signals: Manufacturers heavy duty, self cancelling type with hazard warning switch  YES  NO
- X7.5.10 AC, heater, and defroster: Fresh air type, heaviest duty  YES  NO
- X7.5.11 Does cab have full flow through ventilation for optional temperature control and operator comfort  YES  NO
- X7.5.12 Windshield wipers and washers: 2 speed with washer with intermittent feature at both driving positions  YES  NO
- Windshield washer reservoir capacity   /   gallon
- X7.5.13 Instruments: Manufacturers gauges both left and right operation with visual, audible, and programmable warning to inform driver when operating conditions are exceeded  YES  NO
- X7.5.13.1 Chassis left and right side operator instrument panel chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, fuel gauge, water temperature gauge, air pressure gauge, volt gauge, oil pressure, and transmission temperature gauges  YES  NO
- X7.5.13.2 Does engine instruments include warning light and chime for low oil pressure and high coolant temperature, low oil pressure and low air pressure to warn the operator of a potential problem before any damage to the engine occurs  YES  NO
- X7.5.13.2.1 Does console have left/right primary drivers switch  YES  NO

- X7.5.13.3** Does chassis engine have hourmeter  YES  NO
- X7.5.14 Rearview mirrors: Dual, west coast type, with 8 inch convex spot mirror for easy viewing of the side broom during sweeping, of rust resistant material and mounting brackets  YES  NO
- X7.5.14.1** Mirrors: Fender mounted stainless steel 8 inch convex mirrors provided to increase operator visibility  YES  NO
- X7.5.15 Glass: Manufacturers tinted safety glass; front side, and rear  YES  NO
- Does side glass have defogger  YES  NO
- X7.5.16 Radio: Manufacturers standard AM/FM stereo with seek and scan feature  YES  NO
- X7.5.17 Air conditioning: Manufacturers fresh air type heaviest duty  YES  NO
- X7.5.18 Front mudflaps are manufacturers standard for unit bid  YES  NO
- X7.5.19 Emergency triangle warning kit, with hold down stowed in the cab  YES  NO
- Manufacturer and Part No. Will Advise
- X7.5.20** Accessories included in the manufacturers standard cab but not addressed:
- 
- X7.5.21** If you are successful vendor, will you provide WVDOH with complete list of all filters required for normal maintenance on unit  YES  NO
- X7.6 Engine:
- X7.6.1** Diesel engine: 215 HP @ 2200 RPM
- X7.6.2** Is engine equipped with a dual stage dry type air cleaner, spin on fuel filter, and full flow oil filter  YES  NO
- X7.6.3 In engine block heater: 1250 watt
- X7.6.4** A single exhaust pipe with muffler that meets all Federal noise abatement requirement  YES  NO
- Heat shield on vertical exhaust  YES  NO
- X7.7 Cooling System:
- X7.7.1** Cooling system is capable of maintaining engine temperature within the manufacturer's recommended range during continuous operation  YES  NO

- X7.7.2 Radiator fan is viscous drive type  YES  NO
- X7.7.3 The system is filled with manufactures Standard antifreeze rated to a -30°F minimum  YES  NO
- X7.8 Fuel Tanks:
- X7.8.1 Capacity: One (1) 50 gallon fuel tank shared by both engines and easily accessible without raising or shifting any components  YES  NO
- Inside cab fuel gauge supplied  YES  NO
- X7.9 Electrical System:
- X7.9.1 Type: 12 volt negative ground system with manufacturer's radio interference suppression  YES  NO
- X7.9.2 Batteries:
- X7.9.2.1 Are in an enclosed accessible environment for ease of service  YES  NO
- X7.9.2.2 Cold Crank Amps: 1500 AMPS
- X7.9.3 Alternator Capacity: 100 AMPS brushless with internal regulator  YES  NO
- X7.9.4 Lighting: Does it conform to the West Virginia Motor Vehicle Code  YES  NO
- X7.10 Transmission: Allison 2500 RDS 5 speed with overdrive  YES  NO
- X7.11 Rear Axle: Is it two (2) 8 speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for proper sweeping and transport speeds  YES  NO
- X7.11.1 Rated Capacity: 21,000 Lbs.
- X7.11.2 Rear Spring Capacity: 21,000 Lbs. with multi leaf auxiliary springs  YES  NO
- X7.11.3 Rear axle differential, transmission, and front wheel lubrication reservoirs are filled with synthetic type lubrication and provided with magnetic drain plugs where applicable  YES  NO
- X7.11.4 Is unit equipped with manufacturers heavy duty rear shock absorbers  YES  NO  
Are they required  YES  NO
- X7.12 Front Axle:
- X7.12.1 Capacity: 12,000 lbs. I beam type
- X7.12.2 Front spring capacity: 12,000 lbs.
- X7.12.3 Manufacturers heavy duty shock absorbers/and stabilizer bar  YES  NO

- X7.13 Brakes:
- X7.13.1 Type: Are they full air with manufacturers ABS through a 4 channel full vehicle wheel control system in compliance with the most current FMVSS requirements  YES  NO
- X7.13.2 Compressor: 12.9 CFM
- X7.13.3 Parking brake: Spring set, air release actuating rear axle service brakes  YES  NO  
Instrument panel control  YES  NO
- X7.13.4 Air dryer with heater: Bendix
- X7.13.5 Manufacturers standard air tanks for service brakes; auxiliary tank for parking brake  YES  NO
- X7.13.6 Low air pressure warning light and buzzer  YES  NO
- X7.13.7 Do brakes meet or exceed all current Federal and State FMVSS requirements  YES  NO
- X7.13.8 Brake dust covers installed on all wheels  YES  NO
- X7.14 Tires and wheels for safety and allows emergency interchange of tires at a job site/front and rear (tires/rims) are interchangeable  YES  NO
- X7.14.1 Wheel, front and rear: 22.5 x 8.25  
10 hole hub piloted steel disc type to accommodate specified tire size  YES  NO
- X7.14.2 Tires:
- X7.14.2.1 Front and Rear: 11R22.5G; 14 ply  YES  NO  
Does the rear axle have dual tires for load capacity  YES  NO
- X7.15 Other features considered as manufacturers standard equipment but not addressed:  
Cruise Control, right power window (GMC)  
Power Heated mirrors (International)
- X7.16 Paint: Manufacturers standard  YES  NO
- X7.16.1 Will you furnish the Department a larger paint sample after award of contract if needed  YES  NO
- X7.16.2 If required, will you measure adhesion by the criteria set forth in ASTM D3359-74 Method B  YES  NO



X7.17 Does unit meet or exceed the "Occupational Safety and Health Act of 1970" and subsequent amendments  YES  NO

X7.18 Does the unit meet the advertising guidelines  YES  NO

X7.19 Preventive Maintenance and Operator's Training School:

X7.19.1 Will manufacturer and/or dealer stage a thorough seminar on Preventive Maintenance and Operator Training  YES  NO

X7.19.2 Will operating and service manuals, booklets and pamphlets explaining procedures be supplied  YES  NO

X7.19.3 If you are successful vendor, will you conduct training of the completed unit  YES  NO

Have you attached a copy of the proposed program with your bid  YES  NO

X8.0 SPECIFICATIONS OF SWEEPER MODULE

Does New Regenerative Air Street Sweeper have a 6 wheeled, truck chassis with dual diesel engines, sweeper controls and switches, 8.0 cubic yard hopper, automatic transmission, 220 gallon water tank, left and right side broom with variable down pressure controlled from cab

YES  NO

Manufacturer: Tymco Model: 600

X8.1 Water Tank:

X8.1.1 Tank capacity 330 gallon of water

X8.2 Sweeper Engine:

X8.2.1 Diesel - Is it a Tier 3 Emission compliant, 4 cylinder turbocharged, 276 CID  YES  NO

Manufacturer and Model: John Deere 4045T

X8.2.2 Horsepower: 99 HP @ 2500 RPM ; torque 274 lb ft @ 1400 RPM

X8.2.3 Is engine wet sleeved  YES  NO

X8.2.4 Does unit have element dry type air cleaner with restriction indicator  YES  no

X8.2.5 Engine coolant is Manufacturer Standard with a protection to -30°F  YES  NO

- X8.2.6 Does the sweeper engine drive the blower fan by a heavy duty five (5) "V" groove power belt  YES  NO
- X8.2.7 Is sweeper engine in an enclosure for sound attenuation, enclosure to include doors for access to serviceable items or tilt hopper  YES  NO
- X8.3 Blower:
  - X8.3.1 Blower is rated at 17,000 CFM by an independent test facility  YES  NO  
Have you attached the documentation  YES  NO
  - X8.3.2 Operation speed of the fan MAX 2000 RPM
  - X8.3.3 Is blower of the closed  or open  face turbine type  YES  NO  
Number of vans 6 diameter 31.5
  - X8.3.4 Blower constructed of abrasion resistant steel  YES  NO
  - X8.3.5 Blower housing constructed of 10 gauge steel and lined with Linafex or 3/8 inch corded rubber  YES  NO  
Is part of the hopper  YES  NO
  - X8.3.6 Does blower housing have an inspection door (air exhaust opening)  YES  NO
  - X8.3.7 Is blower mounted and supported on both sides by heavy duty greasable bearing  YES  NO
  - X8.3.8 Are bearings greasable from ground level without tilting the hopper  YES  NO
- X8.4 Pick Up Head:
  - X8.4.1 Is pick up head spring balanced  YES  NO
  - X8.4.2 Is pick up head all steel construction with upper and lower chambers  YES  NO
  - X8.4.3 Width: 87 inches
  - X8.4.4 High: 30 inches
  - X8.4.5 Total area: 3567 square inches
  - X8.4.6 Diameter pressure hose between blower outlet with pickup head 14 inch  
Is transition hose urethane  YES  NO
  - X8.4.7 Diameter suction hose with quick disconnect 14 inch

- X8.4.8 In cab electric operated pressure relief valve/vacuum enhancer/leaf bleeder for optimum leaf and light debris sweeping supplied on pressure side  YES  NO
- X8.4.9 Is front and rear debris curtain removable without removing the pick up head from unit  YES  NO
- X8.4.10 Sweeping Path:
- X8.4.10.1 Pick up head only 87" inches
- X8.4.10.2 One (1) side broom and pick up head 110 inches
- X8.4.10.3 Two (2) side broom and pick up head 142 inches
- X8.4.11 Is pick up head equipped with side mounted adjustable steel runners with carbide inserts  YES  NO  
Width: 2 inches
- X8.4.12 Is raise and lower of pick up head done hydraulically by a rocker switch on control panel inside the cab  YES  NO
- X8.4.13 Is a center broom in the rear or front of pick up head supplied  YES  NO  
And controlled by rocker switch in cab  YES  NO
- X8.4.13.1 Is center broom hydraulic driven  YES  NO
- X8.4.13.2 Center broom \_\_\_\_\_ inches long
- X8.4.13.3 Center broom \_\_\_\_\_ inches in diameter
- X8.5 Side Brooms:
- X8.5.1 Right and left broom are of a free floating trailing arm design with inward motion safety to prevent damage when sweeping and encountering fixed obstacles  YES  NO
- X8.5.2 Training arm is of parallelogram design  YES  NO
- X8.5.3 Diameter of brooms 43 inches
- X8.5.4 Are brooms hydraulically driven  YES  NO
- X8.5.5 Are brooms pneumatically \_\_\_ or hydraulically  raised, lowered, and suspended  YES  NO
- X8.5.6 Is broom down pressure pneumatically controlled from the cab by operator \_\_\_ or automatic by load and speed sensing hydraulics
- X8.5.7 Broom hydraulic motor drive 468 <sup>Foot lbs.</sup> in/lbs. of torque

- X8.5.8 Side brooms have greaseless pivot pins and/or grease zero  YES  NO
- X8.5.9 Does transport hook hold side broom assemblies in storage position  or hydraulic lock in system
- X8.5.10 Are rocker switches in cab used to control side broom  YES  NO
- X8.5.11 Is side broom retraction while sweeping to provide scrubbing action controlled from the operator seat  YES  NO
- X8.5.12 Does right broom tilt inward and outward from cab while sweeping by means of electrically controlled linear actuator  YES  NO
- X8.6 Hopper:
- X8.6.1 Volumetric capacity 7.3 cubic yards
- X8.6.2 Construction: 10 gauge steel sides, 3/8" inch floor
- X8.6.3 Is weight actuated full load indicator mounted in the cab on control panel  YES  NO
- X8.6.4 Dump angle N/A °
- X8.6.5 Dump angle achieved by use of 2 stage telescopic cylinder or dual hydraulic cylinders  YES  NO
- X8.6.6 Floor angle 22 °
- X8.6.7 Abrasion resistant "scoop" style steel deflector located at the suction inlet to direct material to the center of hopper  YES  NO
- X8.6.8 Hopper rear door hinged at the top of the door and opened by hydraulic cylinder  YES  NO
- X8.6.9 Hopper rear door opening N/A ° angle
- X8.6.10 Right hand side (passenger side) of hopper has hydraulic valve levers to operate hydraulic cylinder movement  YES  NO
- X8.6.11 Hopper rear door has internal door prop  YES  NO
- X8.6.12 Hopper rear door has automatic lock mechanism for tight fit  YES  NO
- X8.6.13 Hopper rear door seal is water resistant reinforced  YES  NO
- X8.6.14 Are hopper screens hinged for easily cleaning and inspection  YES  NO
- X8.6.15 Total hopper screen area 5124 square inches

- X8.6.16 Hopper screen material 13 gauge steel
- X8.6.17 8 inch inside diameter by 16' foot long hydraulic wandering hose located at rear of unit for cleaning catch basins is provided  YES  NO
- X8.6.18 An 8 inch diameter by 52" foot long catch basin nozzle with water injection and quick clamp is provided  YES  NO
- An additional 8 inch diameter by 42" foot aluminum extension with quick clamps is provided  YES  NO
- X8.6.19 Is a push button finger tip hydraulic control on the nozzle handles to raise and lower nozzle provided  YES  NO
- X8.6.20 Does rear auxiliary engine have throttle control  YES  NO
- X8.6.21 Is hopper hose heavy duty rubber  YES  NO
- X8.6.22 In addition to standard outside dumping controls, are in-cab controls provided  YES  NO
- X8.6.23 Does right side (curb side) of hopper have inspection door  YES  NO
- X8.6.24 For easy access to inspection door, is an additional step and rear handle mounted on rear bumper and right rear side of hopper provided or access doors on each side of hopper  YES  NO
- X8.6.25 Does rear of sweeper have bumper to protect against underride obstacles and designed as to not allow dumping debris on top of said bumper  YES  NO
- X8.6.26 Is there protection to the hopper against corrosion and wear and to facilitate the removal of debris when dumping provided  YES  NO
- X8.6.27 Have you used any bare steels including stainless steels  YES  NO
- X8.6.28 Does protection system provide protection such that the hopper will be warranted for life of sweeper  YES  NO

Manufacturer of liner: Rhino Liner

X8.7 Dust Separator:

- X8.7.1 Is dirt separation from the air stream accomplished by means of a labyrinth style dust separator installed at air return outlet of the hopper or a circular, cyclonic multi pass separator  YES  NO
- X8.7.2 Is separator designed as to not allow plugging with regular debris  YES  NO

- X8.7.3 Does dust separator have easy access for cleaning of the separator interior and inspection  YES  NO
- X8.7.4 Does dust separator have self opening door made of abrasion resistant steel to allow automatic discharge of debris when tilting hopper  YES  NO
- X8.8 Spray Water System:
- X8.8.1 Tank total capacity 330 gallons
- X8.8.2 Construction : Polyethylene
- X8.8.3 Is tank removable type, sharing no common wall with hopper  YES  NO
- X8.8.4 Does tank not raise during hopper dumping  YES  NO
- X8.8.5 Fill hose 2 1/2 with NST coupling with strainer is supplied  YES  NO
- X8.8.6 Is water level gauge control console mounted within the cab  YES  NO
- X8.8.7 Are water lines color coded  YES  NO
- X8.8.8 Is ball valve in filter inlet provided to prevent water loss while cleaning filter  YES  NO
- X8.8.9 Is filter easy to access and clean without tipping hopper  YES  NO
- X8.8.10 Is all water piping external to operator cab  YES  NO
- X8.8.11 5 spray nozzles at each side broom for dust control provided  YES  NO
- X8.8.12 Are spray nozzles mounted on pivoting brackets  YES  NO
- X8.8.13 Inside the pick up head has 0 easily removable water spray nozzles  YES  NO
- X8.8.14 Suction hose has 0 easily removable spray nozzles  YES  NO
- X8.8.15 Is water flow to pick up head, suction hose, side brooms by twp (2) electric 12 volt, diaphragm type pumps or electric roller pump, belt driven cat triplex  YES  NO
- X8.8.16 Diaphragm type pumps provide \_\_\_\_\_ GPM @ \_\_\_\_\_ PSI combined \_\_\_\_\_ YES \_\_\_\_\_ NO, roller style Pump with up to \_\_\_\_\_ psi \_\_\_\_\_ YES \_\_\_\_\_ NO \_\_\_\_\_ or Cat Triplex style pump with up to \_\_\_\_\_ psi \_\_\_\_\_ YES \_\_\_\_\_ NO

- X8.8.17 Does each pump have two (2) flow rates controlled by the operator within cab  
 \_\_\_\_\_ YES  NO  
 OR  
 Controlled with on/off switch and single flow rate  YES \_\_\_\_\_ NO
- X8.8.18 Is an additional spray bar mounted under the front bumper with cab controls provided for extreme sweeping conditions  
 \_\_\_\_\_ YES  NO
- X8.8.19 Is water spray line to the center broom provided for increased dust suppression  
 \_\_\_\_\_ YES  NO
- X8.8.20 Is quick disconnect for high pressure wash down easily accessible on right side of sweeper  
 \_\_\_\_\_ YES  NO
- X8.9 Hydraulic System:
- X8.9.1 Hydraulic pump – gear driven  YES \_\_\_\_\_ NO
- X8.9.2 Hydraulic pump output 8 GPM @ 2500 RPM
- X8.9.3 Reservoir capacity: 25 gallons
- X8.9.4 Does tank have exterior sight gauge  YES \_\_\_\_\_ NO
- X8.9.5 Is reservoir located within the enclosed auxiliary engine compartment \_\_\_\_\_ YES  NO
- X8.9.6 Do all hydraulic circuits have quick disconnect pressure check ports  YES \_\_\_\_\_ NO
- X8.9.7 Are all high pressure fittings “o” ring face seal type or JIC type  YES \_\_\_\_\_ NO
- X8.9.8 Are all hydraulic filters, air or fluid manufacturers standard  YES \_\_\_\_\_ NO
- X8.9.9 Electric/hydraulic auxiliary pump supplied to raise/lower the hopper, open/close hopper rear door without running auxiliary engine  YES \_\_\_\_\_ NO
- X8.10 Pneumatic System:  
 Is it required \_\_\_\_\_ YES  NO
- X8.10.1 Is a PR4 type pressure protector for the chassis air system provided to protect system when pressures drop below 85 PSI  
 \_\_\_\_\_ YES \_\_\_\_\_ NO
- X8.10.2 Do sweeper air components have separator air tank  
 \_\_\_\_\_ YES \_\_\_\_\_ NO
- X8.10.3 Are all pneumatic cylinders rated to 150 psi and have a separate rod seal and wiper to prevent contamination entering the cylinder  
 \_\_\_\_\_ YES \_\_\_\_\_ NO

- X8.10.4 Is each cylinder controlled by a single, two (2) position, solenoid valve mounted on a manifold with common input and exhaust  YES  NO
- X8.10.5 Is a poly carbonate bowl type filter used to filter out contamination of the air system  YES  NO
- X8.11 Electrical System:
- X8.11.1 Is sweeper electrical system separate of the chassis electrical system  YES  NO
- X8.11.2 Sweeper engine battery: number 2 750 ea CCA 12 volt battery  YES  NO  
or share with truck chassis  YES  NO
- X8.11.3 Sweeper engine alternator 95 amp
- X8.11.4 Does sweeper have OSHA approved back up alarm  YES  NO
- X8.11.5 Does sweeper lighting include rear identification lights, side broom, and rear clearance lights  YES -  NO
- X8.11.6 Do sweeper warning lights include hopper up and hopper full load  YES  NO
- X8.11.7 Is sweeper wiring harnesses color coded and function stamped every six (6) inches  YES -  NO
- X8.11.8 Are all electrical circuits protected by manual re-settable circuit breakers  
(NOT ALL / where applicable)  YES  NO
- X8.11.9 Manufacturers recommended LED arrowboard rear mounted is provided  YES  NO
- X8.12 Controls:
- X8.12.1 All sweeper controls are mounted on a stationary central console that allows for use from either right or left positions  YES  NO
- X8.12.2 Controls include all sweep, spray water, and lighting functions  YES  NO
- X8.12.3 Are conventional rocker switches used to control sweep, spray water, and lighting functions  YES  NO
- X8.12.4 Are controls for auxiliary engine ignition and throttle, side broom down pressure, and manual reset circuit breakers located in the control console  YES  NO



## X8.13 Instruments:

## X8.13.1 Sweeper engine instruments:

- X8.13.1.1 Tachometer  YES  NO
- X8.13.1.2 Hourmeter  YES  NO
- X8.13.1.3 Oil pressure  YES  NO
- X8.13.1.4 Fuel  YES  NO
- X8.13.1.5 Voltage  YES  NO
- X8.13.1.6 Coolant temperature  YES  NO
- X8.13.1.7 Air intake restriction indicator  YES  NO
- X8.13.1.8 Raised hopper indicator  YES  NO
- X8.13.1.9 Full hopper indicator  YES  NO

## X8.14 Accessories:

- X8.14.1 A 2 1/2 lb. fire extinguisher is provided  YES  NO
- X8.14.2 A hydrant wrench for fire hydrant to fill water is provided  YES  NO
- X8.14.3 A rear mounted flood light with cab control is provided  YES  NO
- X8.14.4 A sweep resume feature is provided  YES  NO

**Does it include automatic pickup of side brooms and pickup head and return to idle when sweep resume control is activated or when truck transmission is put in reverse, and return to previous sweeping positions when transmission is taken out of reverse or sweep resume control is returned to sweeping position**  YES  NO

STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT**

**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 owed 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 exceed 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:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**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](http://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: Golden Equipment Co., Inc.

Authorized Signature:  Date: 5/27/08



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
708EC012

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
MICHAEL AUSTIN 304-558-2402

VENDOR

\*709020209 412-625-3100  
 GOLDEN EQUIPMENT CO INC  
 PO BOX 873  
 MARS PA 16046

SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/02/2008				

BID OPENING DATE: 05/21/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1		
				BID OPENING DATE AND TIME CHANGED		
				FROM: 05/07/08 AT 1:30 P.M.		
				TO: 05/21/08 AT 1:30 P.M.		
				NO OTHER CHANGES		
0001	1	EA		765-77	\$159,940.00	\$159,940.00
				AIR STREET SWEEPER		
***** THIS IS THE END OF RFQ 708EC012 ***** TOTAL:						\$159,940.00

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE 724-625-3100	DATE 5/21/08
TITLE President	FEIN 25-1537261	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS  
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2019 Washington Street East  
Post Office Box 50130  
Charleston, WV 25305-0130



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SHIP TO

DIVISION OF HIGHWAYS  
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 26201      304-472-1750

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/15/2008				

BID OPENING DATE: 05/28/2008      BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 2						
BID OPENING DATE AND TIME CHANGED						
FROM: 05/21/08 AT 1:30 P.M.						
TO: 05/28/08 AT 1:30 P.M.						
NO OTHER CHANGES						
0001	1	EA		765-77	\$159,940.00	\$159,940.00
***** THIS IS THE END OF RFQ 708EC012 ***** TOTAL:						\$159,940.00

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State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
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 26201 304-472-1750

DATE PRINTED 05/19/2008	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 05/28/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 3						
CHANGES TO THE SPECIFICATIONS PER THE ATTACHED.						
BID OPENING DATE REMAINS 05/28/08 AT 1:30 P.M.						
NO OTHER CHANGES.						
0001	1	EA		765-77	\$ 159,940.00	\$ 159,940.00
				AIR STREET SWEEPER		
***** THIS IS THE END OF RFQ 708EC012 ***** TOTAL:						\$ 159,940.00

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



## TRUCK MOUNTED REGENERATIVE AIR STREET SWEEPER

708EC012  
ADDENDUM #3

(AFTER DISCUSSION WITH MANAGEMENT ON THE ISSUES OF CONCERN OF ALL FOUR (4) VENDORS PRESENT AT THE PREBID MEETING, ATTACHED IS THE ADDENDUM)

## CHANGES TO SPECIFICATIONS:

*LEAVE AS WRITTEN:*

4.0 REPRESENTATIVE UNIT FOR TEST

## FROM:

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS  
(LAST PARAGRAPH - LAST SENTENCE ONLY)

CD ROM is preferred in lieu of parts or service manuals

## TO:

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS  
(LAST PARAGRAPH - LAST SENTENCE ONLY)

CD ROM for truck and sweeper is preferred in lieu of parts or service manuals

*LEAVE AS WRITTEN:*

6.5 WARRANTY AND SERVICE POLICY

## FROM:

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:  
SPECIFICATIONS - CAB AND CHASSIS

## TO:

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:  
SPECIFICATIONS - CAB AND CHASSIS (CAB OVER TRUCK DESIGN IS PREFERRED)

**LEAVE AS WRITTEN:**

**7.2 Cab to Axle dimensions:** The distance from centerline of the rear axle to the rear of the sweeper without the wandering hose shall not exceed 52 inches.

**LEAVE AS WRITTEN:**

**7.4.1 Frame steel:** 80,000 PSI minimum

**LEAVE AS WRITTEN:**

**7.5 Cab:** Maximum visibility, forward line of sight from the chassis front bumper to the point on the ground visible to the operator shall not exceed 14 feet for an ASE 98<sup>th</sup> percentile size operator.

**LEAVE AS WRITTEN:**

**7.5.18 Front mudflaps** to be manufacturers standard for unit bid.

**FROM:**

**7.6 ENGINE:**

**TO:**

**7.6 ENGINE:**  
(FUTURE ENGINE EMISSION REQUIREMENTS CAN BE CHANGED WITH JUSTIFICATION)

**LEAVE AS WRITTEN:**

**7.6.1 Diesel Engine:** Shall be 175 HP minimum @ approximately 2200 RPM

**LEAVE AS WRITTEN:**

**7.10 Transmission:** Allison Series 2500 (or equal) 5-speed with overdrive

**FROM:**

**7.11 Rear Axle:** Shall be two (2) 8 speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for proper sweeping and transport speeds

**TO:**

**7.11 Rear Axle:** Shall be two (2) speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for proper sweeping and transport speeds

*LEAVE AS WRITTEN:*

7.11.4 Unit to be equipped with manufacturers heavy duty shock absorbers (if required).

*LEAVE AS WRITTEN:*

7.12.1 Capacity: 12,000 lbs. minimum I-beam type

*LEAVE AS WRITTEN:*

7.12.2 Front Spring Capacity: 12,000 lbs.

**ADD:**

7.20 Truck shall have temporary license and inspection sticker.

*LEAVE AS WRITTEN:***8.0 SPECIFICATIONS OF SWEEPER MODULE**

New Regenerative Air Street Sweeper having a 6-wheeled, truck chassis with dual diesel engines, sweeper controls and switches, 8.0 cubic yard hopper, automatic transmission, 220 gallon water tank, left and right side broom with variable down pressure controlled from the cab.

*LEAVE AS WRITTEN:*

8.2.2 Horsepower: Minimum 115 HP @ 2500 RPM, minimum torque 291 lb. ft. @ 1400 RPM

**FROM:**

8.2.6 Sweeper engine shall drive the blower fan by a heavy duty five (5) "V" groove power belt

**TO:**

8.2.6 Sweeper engine shall drive the blower fan by a heavy duty five (5) "V" groove power belt or by gear box drive

*LEAVE AS WRITTEN:*

8.2.7 Sweeper engine shall be in an enclosure for sound attenuation, enclosure to include doors for access to serviceable items or tilt hopper.

**LEAVE AS WRITTEN:**

**8.3.3 Blower shall be of the closed or open face turbine type, minimum nine (9) vanes, 31 3/8 inch diameter**

**LEAVE AS WRITTEN:**

**8.3.4 Blower to be constructed of abrasion resistant steel.**

**LEAVE AS WRITTEN:**

**8.3.5 Blower housing to be constructed of 10 gauge steel and lined with Linafex or 3/8 inch corded rubber shall not be part of the hopper**

**LEAVE AS WRITTEN:**

**8.3.6 Blower housing shall have an inspection door (air exhaust opening).**

**LEAVE AS WRITTEN:**

**8.3.7 Blower to be mounted and supported on both sides by heavy duty greasable bearing.**

**LEAVE AS WRITTEN:**

**8.3.8 Bearings shall be greasable from ground level, without tilting the hopper.**

**FROM:**

**8.4.4 Minimum 30 inches high**

**TO:**

**8.4.4 Minimum 30 inches front to back**

**LEAVE AS WRITTEN:**

**8.4.8 In cab electric operated pressure relief valve/vacuum enhancer/leaf bleeder for optimum leaf and light debris sweeping, shall be supplied on pressure side.**

FROM:

**8.4.13 A center broom in the rear or front of the pick up head shall be supplied, to be controlled by rocker switch in cab**

TO:

**8.4.13 A center broom in the rear or front of the pick up head shall be supplied, to be controlled by rocker switch in cab unless gutter brooms move in from both sides to sweep directly in front of regan head.**

FROM:

**8.5.1 Right and left shall be a free floating trailing arm design with inward motion safety to prevent damage when sweeping and encountering fixed obstacles**

TO:

**8.5.1 Right and left shall be a free floating trailing arm design for free floating forward facing digger style design to prevent damage when sweeping and encountering fixed obstacles**

FROM:

**8.5.9 Transport hook shall hold side broom assemblies in storage position or hydraulic lock in system**

TO:

**8.5.9 Transport hook shall hold side broom assemblies in storage position or hydraulic lock in system or pneumatic lock system**

FROM:

**8.5.12 Right side broom shall tilt inward and outward from cab while sweeping by means of electrically controlled linear actuator**

TO:

**8.5.12 Right side broom shall tilt inward and outward from cab while sweeping by means of electrically controlled linear actuator or by means of a hydraulic cylinder**

***LEAVE AS WRITTEN:***

**8.6.4 Dump angle minimum 50°**

***LEAVE AS WRITTEN:***

**8.6.5 Dump angle shall be achieved by use of 2 stage telescopic cylinder or dual hydraulic cylinders**

**LEAVE AS WRITTEN:**

**8.6.7 Abrasion resistant "scoop" style steel deflector shall be located at the suction inlet to direct material to the center of hopper.**

**LEAVE AS WRITTEN:**

**8.6.9 Hopper rear door opening minimum 90° angle**

**FROM:**

**8.6.10 Right hand side (passenger side) of hopper shall have hydraulic valve levers to operate hydraulic cylinder movement**

**TO:**

**8.6.10 Right hand side (passenger side) or left hand side of hopper shall have hydraulic valve levers or switches to operate hydraulic cylinder movement**

**FROM:**

**8.6.11 Hopper rear door must have internal door prop**

**TO:**

**8.6.11 Hopper rear door must have internal or external door prop**

**LEAVE AS WRITTEN:**

**8.6.18 An eight (8) inch diameter by four (4) foot long catch basin nozzle with water injection and quick clamp shall be provided. An additional eight (8) inch diameter by four (4) foot aluminum extension with quick clamps shall be provided.**

**FROM:**

**8.6.19 Push button finger tip hydraulic control on the nozzle handles to raise and lower nozzle to be supplied**

**TO:**

**8.6.19 Push button finger tip hydraulic or pneumatic control on the nozzle handles to raise and lower nozzle to be supplied**

FROM:

8.6.21 Hopper hose must be heavy duty rubber (Plastic hoses not acceptable)

TO:

8.6.21 Hopper hose must be woven heavy duty rubber minimum .375 inches thick (Plastic hoses not acceptable)

*LEAVE AS WRITTEN:*

8.6.23 *Right side (curb side) of hopper shall have inspection door*

*LEAVE AS WRITTEN:*

8.6.25 Rear of sweeper must have bumper to protect against underride obstacles and shall be designed as to not allow dumping debris on top of said bumper.

*LEAVE AS WRITTEN:*

8.6.27 Bare steels including stainless steels are not acceptable

FROM:

8.6.28 Protection system shall provide protection such that the hopper will be warranted for life of sweeper. The liner shall be Life Liner or approved equal.

TO:

8.6.28 Protection system shall provide protection such that the hopper will be warranted for life of sweeper. The liner shall be Life Liner or Rhino Hard Liner with written lifetime warranty or approved equal.

*LEAVE AS WRITTEN:*

8.7.4 Dust separator to have self opening door made of abrasion resistant steel to allow automatic discharge of debris when tilting hopper.

*LEAVE AS WRITTEN:*

8.8.7 Water lines must be color coded

*LEAVE AS WRITTEN:*

8.8.11 Minimum three (3) spray nozzles at each side broom for dust control to be provided.

**LEAVE AS WRITTEN:**

8.8.13 Inside the pick up head shall have minimum five (5) easily removable water spray nozzles.

**LEAVE AS WRITTEN:**

8.8.14 Suction hose must have minimum two (2) easily removable spray nozzles

**FROM:**

8.8.15 Water flow to pick up head, suction hose, side brooms shall be by two (2) electric 12 volt, diaphragm type pumps or electric roller pump, belt driven cat triplex.

**TO:**

8.8.15 Diaphragm or roller style pump must be provided for standard dust suppression.

**DELETE:**

8.8.16 Diaphragm type pumps must provide minimum six (6) GPM @ 30 PSI combined, roller style pump with up to 100 psi, or Cat Triplex style pump with up to 55 psi

**LEAVE AS WRITTEN:**

8.8.18 An additional spray bar mounted under the front bumper with cab controls shall be provided for extreme sweeping conditions.

**LEAVE AS WRITTEN:**

8.8.19 Water spray line to the center broom shall be provided for increased dust suppression.

**DELETE:**

8.8.20 Quick disconnect for high pressure wash down must be easily accessible on right side of sweeper

**LEAVE AS WRITTEN:**

8.9.5 Reservoir should be located within the enclosed auxiliary engine compartment.



FROM:

**8.10.2 Sweeper air components shall have separator air tank**

TO:

**8.10.2 Sweeper air components shall have separator air tank (if needed)**

*LEAVE AS WRITTEN:*

**8.11.7 Sweeper wiring harnesses must be color coded and function stamped every six (6) inches**

*LEAVE AS WRITTEN:*

**8.11.9 Manufacturers recommended LED arrowboard rear mounted to be provided**

*LEAVE AS WRITTEN:*

**8.12.4 Controls for auxiliary engine ignition and throttle, side broom down pressure, and manual reset circuit breakers shall be located in the control console.**

FROM:

**8.14.4 A sweep resume feature must be provided. It must include automatic pickup of side brooms and pickup head and return to idle when sweep resume control is activated or when truck transmission is put in reverse, and return to previous sweeping positions when transmission is taken out of reverse or sweep resume control is returned to sweeping position.**

TO:

**8.14.4 A sweep resume feature must be provided. It must include automatic pickup of side brooms and pickup head and return to idle when sweep resume control is activated or when truck transmission is put in reverse, and return to previous sweeping positions when transmission is taken out of reverse or sweep resume control is returned to sweeping position or sweeps in reverse vacuum head with automatic pick up of side brooms when truck is placed in reverse.**

ADD:

**8.14.5 Mounted tool box for tool storage a minimum 16 inches wide x 8 inches tall x 16 inches deep, lockable tool box, mounted curb side for safety.**

## TRUCK MOUNTED REGENERATIVE AIR STREET SWEEPER

708EC012  
ADDENDUM #3

(AFTER DISCUSSION WITH MANAGEMENT ON THE ISSUES OF CONCERN OF ALL FOUR (4) VENDORS PRESENT AT THE PREBID MEETING, ATTACHED IS THE ADDENDUM)

## CHANGES TO BIDDER'S EVALUATION REPORT:

ADD:

## X4.0 REPRESENTATIVE UNIT FOR TEST

Will you provide one (1) completed representative unit to be observed and evaluated on each order to insure compliance with specification  YES  NO

ADD:

X6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS  
(LAST PARAGRAPH - LAST SENTENCE ONLY)

Will a CD Rom for truck and sweeper be furnished in lieu of parts or service manuals  YES  NO

*LEAVE AS WRITTEN:*

## 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

**Is a minimum two (2) year bumper to bumper basic parts and labor warranty included?**  YES  NO

Describe:

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FROM:

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.

SPECIFICATIONS - CAB AND CHASSIS

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

TO:

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.

SPECIFICATIONS - CAB AND CHASSIS

Manufacturer: GMC / International Model: T7500 / 4300-M7

Is it the cab over truck design  YES  NO

LEAVE AS WRITTEN:

X7.2 Cab to Axle Dimensions: Distance from centerline of the rear axle to the rear of the sweeper without the wander hose 128 inches

LEAVE AS WRITTEN: 80,000 /  
X7.4.1 Frame steel: 50,000 psi

LEAVE AS WRITTEN:

X7.5 Cab: Maximum visibility, forward line of sight from the chassis front bumper to the point on the ground visible to the operator  feet for an ASE 98<sup>th</sup> percentile size operator comply

LEAVE AS WRITTEN:

X7.5.18 Front mudflaps are manufacturers standard for unit bid  YES  NO

FROM:

X7.6 Engine:

TO:

X7.6 Engine:

Will you supply justification for changes to future engine emission requirements

YES  NO

LEAVE AS WRITTEN:

X7.6.1 Diesel engine: 215 HP @ 2200 RPM

LEAVE AS WRITTEN:

X7.10 Transmission: Allison 2500 RDS 5 speed with overdrive  YES  NO

FROM:

X7.11 Rear Axle: Is it two (2) 8 speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for proper sweeping and transport speeds  YES  NO

TO:

X7.11 Rear Axle: Is it two (2) speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for proper sweeping and transport speeds  YES  NO

LEAVE AS WRITTEN:

X7.11.4 Is unit equipped with manufacturers heavy duty rear shock absorbers  YES  NO  
Are they required  YES  NO

LEAVE AS WRITTEN:

X7.12.1 Capacity: \_\_\_\_\_ lbs. I beam type GMC 12,000 lb  
International 8,600

LEAVE AS WRITTEN:

X7.12.2 Front spring capacity: \_\_\_\_\_ lbs. GMC 12,000 lb  
International 8,000

ADD:

X7.20 Will you furnish temporary license and inspection sticker  YES  NO*LEAVE AS WRITTEN:*

X8.0 SPECIFICATIONS OF SWEEPER MODULE

Does New Regenerative Air Street Sweeper have a 6 wheeled, truck chassis with dual diesel engines, sweeper controls and switches, 8.0 cubic yard hopper, automatic transmission, 220 gallon water tank, left and right side broom with variable down pressure controlled from cab  YES  NO

Manufacturer: Tymco Model: 600

*LEAVE AS WRITTEN:*X8.2.2 Horsepower: 99 HP @ 2500 RPM; torque 274 lb. ft @ 1400 RPM

FROM:

X8.2.6 Does the sweeper engine drive the blower fan by a heavy duty five (5) "V" groove power belt  YES  NO

TO:

X8.2.6 Does the sweeper engine drive the blower fan by a heavy duty five (5) "V" groove power belt  YES  NO or by gearbox drive  YES  NO*LEAVE AS WRITTEN:*X8.2.7 Is sweeper engine in an enclosure for sound attenuation, enclosure to include doors for access to serviceable items or tilt hopper  YES  NO*LEAVE AS WRITTEN:*X8.3.3 Is blower of the closed  or open  face turbine type  YES  NO

Number of vanes 6 diameter 31.5

*LEAVE AS WRITTEN:*X8.3.4 Blower constructed of abrasion resistant steel  YES  NO

**LEAVE AS WRITTEN:**

X8.3.5 Blower housing constructed of 10 gauge steel and lined with Linafex or 3/8 inch  
corded rubber  YES  NO

Is part of the hopper  YES  NO

**LEAVE AS WRITTEN:**

X8.3.6 Does blower housing have an inspection door (air exhaust opening)  
 YES  NO

**LEAVE AS WRITTEN:**

X8.3.7 Is blower mounted and supported on both sides by heavy duty greasable bearing  
 YES  NO

**LEAVE AS WRITTEN:**

X8.3.8 Are bearings greasable from ground level without tilting the hopper  
 YES  NO

**FROM:**

X8.4.4 High: \_\_\_\_\_ inches

**TO:**

X8.4.4 Front to back: 30 inches

**LEAVE AS WRITTEN:**

X8.4.8 In cab electric operated pressure relief valve/vacuum enhancer/leaf bleeder for  
optimum leaf and light debris sweeping supplied on pressure side  
 YES  NO

FROM:

**X8.4.13** Is a center broom in the rear or front of pick up head supplied  YES  NO

And controlled by rocker switch in cab  YES  NO

TO:

**X8.4.13** Is a center broom in the rear or front of pick up head supplied  YES  NO

And controlled by rocker switch in cab  YES  NO

Unless gutter brooms move in from both sides to sweep directly in front of regan head *movable brooms*  YES  NO

FROM:

**X8.5.1** Right and left broom are of a free floating trailing arm design with inward motion safety to prevent damage when sweeping and encountering fixed obstacles  YES  NO

TO:

**X8.5.1** Right and left broom are of a free floating trailing arm design for free floating forward facing digger style design to prevent damage when sweeping and encountering fixed obstacles  YES  NO

FROM:

**X8.5.9** Does transport hook hold side broom assemblies in storage position  or hydraulic lock in system

TO:

**X8.5.9** Does transport hook hold side broom assemblies in storage position  or Hydraulic lock in system  or pneumatic lock system

FROM:

X8.5.12 Does right broom tilt inward and outward from cab while sweeping by means of electrically controlled linear actuator  YES  NO

TO:

X8.5.12 Does right broom tilt inward and outward from cab while sweeping by means of electrically controlled linear actuator  YES  NO or by means of a hydraulic cylinder  YES  NO

LEAVE AS WRITTEN:

X8.6.4 Dump angle 22 °

LEAVE AS WRITTEN:

X8.6.5 Dump angle achieved by use of 2 stage telescopic cylinder or dual hydraulic cylinders  YES  NO

LEAVE AS WRITTEN:

X8.6.7 Abrasion resistant "scoop" style steel deflector located at the suction inlet to direct material to the center of hopper  YES  NO

LEAVE AS WRITTEN:

X8.6.9 Hopper rear door opening N/A ° angle

FROM:

X8.6.10 Right hand side (passenger side) of hopper has hydraulic valve levers to operate hydraulic cylinder movement  YES  NO

TO:

X8.6.10 Right hand side (passenger side)  YES  NO OR left hand side  YES  NO of hopper has hydraulic valve levers  YES  NO OR switches  YES  NO to operate hydraulic cylinder movement  YES  NO

FROM:

X8.6.11 Hopper rear door has internal door prop  YES  NO

TO:

X8.6.11 Hopper rear door has internal  or external door prop



*LEAVE AS WRITTEN:*

X8.6.18 An 8 inch diameter by 52<sup>11</sup> foot long catch basin nozzle with water injection and quick clamp is provided  YES  NO

An additional 8 inch diameter by 42<sup>11</sup> foot aluminum extension with quick clamps is provided  YES  NO

## FROM:

X8.6.19 Is a push button finger tip hydraulic control on the nozzle handles to raise and lower nozzle provided  YES  NO

## TO:

X8.6.19 Is a push button finger tip hydraulic  or pneumatic control  on the nozzle handles to raise and lower nozzle to be supplied  YES  NO

## FROM:

X8.6.21 Is hopper hose heavy duty rubber  YES  NO

## TO:

X8.6.21 Is hopper hose woven heavy duty rubber  YES  NO

Thickness: 3/8 inches

*LEAVE AS WRITTEN:*

X8.6.23 Does right side (curb side) of hopper have inspection door  YES  NO

*LEAVE AS WRITTEN:*

X8.6.25 Does rear of sweeper have bumper to protect against underride obstacles and designed as to not allow dumping debris on top of said bumper  YES  NO

*LEAVE AS WRITTEN:*

X8.6.27 Have you used any bare steels including stainless steels  YES  NO

**NO CHANGED REQUIRED:**

X8.6.28 Does protection system provide protection such that the hopper will be warranted for life of sweeper  YES  NO

Manufacturer of liner: Rhino Liner

**LEAVE AS WRITTEN:**

X8.7.4 Does dust separator have self opening door made of abrasion resistant steel to allow automatic discharge of debris when tilting hopper  YES  NO

**LEAVE AS WRITTEN:**

X8.8.7 Are water lines color coded  YES  NO

**LEAVE AS WRITTEN:**

X8.8.11 5 spray nozzles at each side broom for dust control provided  YES  NO

**LEAVE AS WRITTEN:**

X8.8.13 Inside the pick up head has 0 easily removable water spray nozzles  YES  NO

**LEAVE AS WRITTEN:**

X8.8.14 Suction hose had 0 easily removable spray nozzles  YES  NO

**FROM:**

X8.8.15 Is water flow to pick up head, suction hose, side brooms by two (2) electric 12 volt, diaphragm type pumps or electric roller pump, belt driven cat triplex  YES  NO

**TO:**

X8.8.15 Is diaphragm or roller style pump provided for standard dust suppression  YES  NO

**DELETE:**

X8.8.16 Diaphragm type pumps provide      GPM@      PSI combined  YES  NO  
Roller style pump with up to      psi  YES  NO or  
Cat Triplex style pump with up to      PSI  YES  NO

**LEAVE AS WRITTEN:**

X8.8.18 Is an additional spray bar mounted under the front bumper with cab controls provided for extreme sweeping conditions  YES  NO

**LEAVE AS WRITTEN:**

X8.8.19 Is water spray line to the center broom provided for increased dust suppression  YES  NO

**DELETE:**

X8.8.20 Is quick disconnect for high pressure wash down easily accessible on right side of sweeper  YES  NO

**LEAVE AS WRITTEN:**

X8.9.5 Is reservoir located within the enclosed auxiliary engine compartment  YES  NO

**FROM:**

X8.10.2 Do sweeper air components have separator air tank  YES  NO

**TO:**

X8.10.2 Do sweeper air components have separator air tank  YES  NO  
Is it needed  YES  NO

**LEAVE AS WRITTEN:**

X8.11.7 Is sweeper wiring harnesses color coded and function stamped every six (6) inches  YES  NO

**LEAVE AS WRITTEN:**

X8.11.9 Manufacturers recommended LED arrowboard rear mounted is provided  YES  NO

**LEAVE AS WRITTEN:**

X8.12.4 Are controls for auxiliary engine ignition and throttle, side broom down pressure, and manual reset circuit breakers located in the control console  YES  NO

## FROM:

X8.14.4 A sweep resume feature is provided  YES  NO

Does it include automatic pickup of side brooms and pickup head and return to idle when sweep resume control is activated or when truck transmission is put in reverse, and return to previous sweeping positions when transmission is taken out of reverse or sweep resume control is returned to sweeping position

YES  NO

## TO:

X8.14.4 A sweep resume feature is provided  YES  NO

Does it include automatic pickup of side brooms and pickup head and return to idle when sweep resume control is activated or when truck transmission is put in reverse, and return to previous sweeping positions when transmission is taken out of reverse or sweep resume control is returned to sweeping position or sweeps in reverse vacuum head with automatic pick up of side brooms when truck is placed in reverse

YES  NO

## ADD:

X8.14.5 Mounted tool box for tool storage 32 inches wide x 16 inches tall x

46 inches deep, lockable tool box, mounted curb side for safety

YES  NO

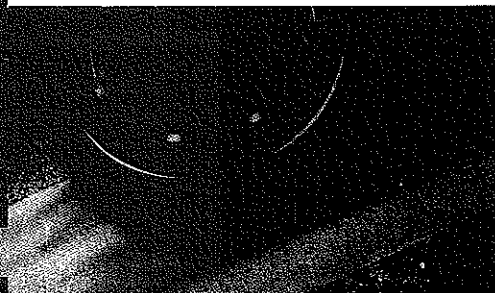
# TYMCO



# 600

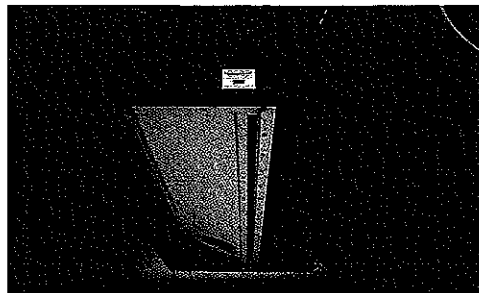
Model Shown with Optional Equipment

## Gutter Broom



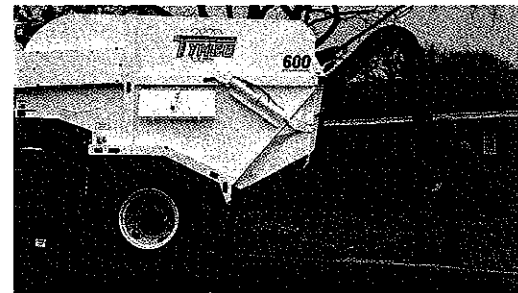
Dual large heavy duty 43" diameter steel brooms designed for digging debris out of curb and gutter. Optional gutter broom tilt adjuster uses in cab controls to adjust the gutter broom angle.

## Optional BAH® Head



Large 12" diameter by 79" long broom with in cab controls that allow broom assisted sweeping only when needed.

## Optional Hand Hose



Powerful 8" diameter suction nozzle for cleaning applications such as catch basins. Optional nozzle and hose extensions available.

**FROM THE PEOPLE WHO INVENTED AIR SWEEPING!**

**TYMCO**  
REGENERATIVE AIR SWEEPERS

# GENERAL SPECIFICATIONS/MODEL 600® REGENERATIVE AIR SWEEPER®

## SWEPPER AUXILIARY

### ENGINE, DIESEL (Standard)

Make ..... JOHN DEERE, 4045T, 4 cyl.  
Displacement ..... 276 cubic inches  
(4.5 L)

Horsepower ..... 99 @ 2,500 RPM  
(74 kW)

Net Torque ..... 274 ft/lbs  
@ 1,400 RPM (372 Nm)

Air cleaner, heavy duty ..... Dry type  
Oil filter, spin on ..... Full flow  
Auxiliary engine shutdown system

## BLOWER, RUBBER LINED

Aluminum alloy high volume open face  
turbine

Location ..... Adjacent to hopper

Purpose ..... Creates blast and suction

Bearings ..... (2) sealed lifetime

lube, anti-friction

Bolt-on housing ..... Abrasion resistant,  
replaceable liner

Drive ..... Heavy duty power band

## DUST SEPARATOR

Type ..... Cyclonic, multipass,  
centrifugal separation

Size ..... 20" x 61" cylindrical area  
(508 mm x 1549 mm)

Location ..... Axial to blower within  
hopper super structure

Particulate removal ..... Through 61"  
(1549 mm) skimmer slot into hopper

Inspection ..... Hinged door, opened  
from hopper exterior

Housing ..... Abrasion resistant,  
w/replaceable wear resistant liner

## HOPPER

Capacity (volumetric) ..... 7.3  
cubic yards (5.6 m³)

Capacity (useable) ..... 6 cubic yards  
(4.6 m³)

Construction ..... Welded steel plate  
with integral stiffeners

Floor angle ..... 22°

Dump door opening ..... 84" x 44" I.D.  
(2134 mm x 1118 mm)

Dumping method ..... Hydraulic with  
raker bar

Dumping height ..... 36" (914 mm)

## PICK-UP HEAD

Function... Air blast and suction chamber

Width ..... 87" I.D. (2210 mm)

Head area ..... 2,610 sq. inches (1.68 m²)

BAH® area ..... 3,567 sq. inches (2.3 m²)

Suspension ..... 4 springs 2 drag links  
Skids ..... DUO-SKIDS®  
Suction & Pressure hose ..... 14"  
diameter (356 mm)  
Pressure bleeder ..... Integral for  
leaf/light material pickup

## GUTTER BROOMS, DUAL Patented

Standard equipment includes floodlights  
and parabolic mirrors

Drive ..... Constant speed  
non-reversible hydraulic motor

Adjustment ..... Adjustable for  
down pressure, pattern and wear

Down pressure ..... Automatically  
adjusts to requirement

Flexibility ..... All directions, integral  
anti-damage "swing away" relief valve

Broom ..... 43" dia. (1.1 m)  
steel wire, vertical digger

## HYDRAULIC SYSTEM

Operates gutter brooms, dump and  
pick-up head

Drive (diesel) ..... Gear driven  
from auxiliary engine

Drive (CNG) ..... Belt driven  
from auxiliary engine

Capacity ..... 8 GPM (30.3 LPM)

Reservoir ..... 25 gal.  
(94.6 L) with 80 mesh suction strainer

Filter ..... 10 micron in-line

Cooler ..... Air to oil 10,000 BTU (2.93 J)

## DUST CONTROL SYSTEM

System of water spray nozzles for  
airborne dust suppression

Pump ..... Electric diaphragm

Reservoir (Polyethylene) ..... 220 gal.  
(832.7 L) with hydrant fill hose

Filter ..... 80 mesh in-line  
Low water shut-off ..... Safety shut-off  
low water warning light in cab coupled  
with liquid level sensor  
Spray nozzles:  
Around pick-up head ..... 4  
Gutter brooms (each) ..... 2  
Hopper (inside) ..... 1

## CONTROLS

**Inside cab** (lighted) ..... Pick-up head,  
gutter brooms, ignition and tachometer  
(auxiliary engine), voltmeter, low water  
warning system (dust control), all safety  
lights, hour meter, pressure bleeder

**Outside cab** ..... Dump  
**Steering** ..... Dual

## SAFETY WARNING DEVICES

Amber rear mounted alternating  
flashing warning lights

Amber strobe light with limb guard

Back up alarm

## OPTIONAL EQUIPMENT

Abrasion protection package

Auto sweep interrupt (ASI)

Auxiliary engine, CNG or turbocharged  
diesel

Auxiliary hand hose 8" (203 mm)

Auxiliary hand hose hydraulic boom  
assist

Auxiliary hydraulic system

Broom Assist Pick-Up Head (BAH®)

Cabover package includes 325 gallon  
(1230.12 L) water capacity

Compressed Natural Gas (CNG) powered

Dustless - (Model DST-6®)

Gutter broom tilt adjuster(s)  
[right, left or both]

Hi/low pressure washdown  
High output water system  
Hopper deluge  
Hopper drain system  
Lateral air flow nozzle  
Liquid recovery system  
Low emissions package  
Magnet  
Runway Sweeper-Model 600 HSP®  
Reverse pick-up head chains  
Stainless steel hopper  
Color, (other than TYMCO standard white)

*Special options are available for  
your individual requirements.  
Contact your local dealer or TYMCO.*

## CAB/CHASSIS

Model ..... International 4200

GVW ..... 30,000 lbs (13,620 kg)

Frame ..... 50,000 PSI

Engine ..... VT365 365 CID (6.0 L)  
V8 Diesel - 175 HP

Transmission ..... Allison 2000 series  
5 speed automatic w/external oil filter

Alternator ..... 100 amp

Batteries ..... (2) 12V; 1100 CCA

Wheelbase ..... 152"

Fuel tank ..... 50 gal. (189 L)  
shared with sweeper

Tires (2-front, 4-rear) ..... Tubeless  
11R x 22.5

Steering ..... Integral power assisted  
with 18" steering wheel

Brakes ..... Dual Air w/ 13.2 CFM  
air compressor

Instruments & lights ..... Full  
package as required

*For availability of alternate truck chassis  
models, contact factory.*

## GENERAL

### SWEEPING WIDTH

Pick-up head only ..... 87" (2210 mm)

1 gutter broom ..... 110" (2794 mm)

2 gutter brooms up to ..... 142" (3606 mm)

### OVERALL DIMENSIONS (Approximate)

Length ..... 248" (6299 mm)

Width ..... 96" (2438 mm)

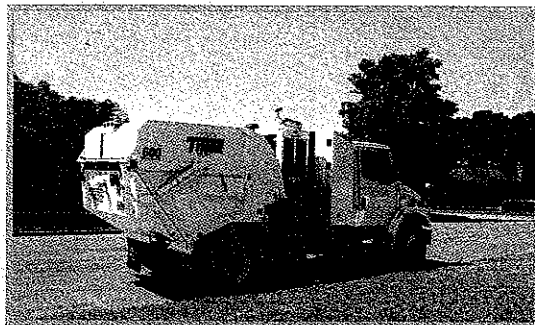
Height ..... 118" (2997 mm)

Height, less strobe light ..... 103" (2616 mm)

Empty weight\* ..... 17,195 lbs (7806 kg)

Weight (sweeper)\* ..... 7,980 lbs (3622 kg)

\* Weight will vary with equipment.



Model 600® CNG  
Compressed Natural Gas Powered



This product is protected by numerous U.S. and Foreign Patents.

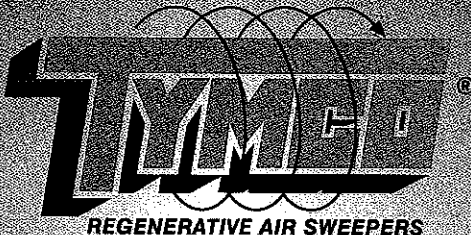
Specifications subject to change without notice.



MODEL DST-6®



MODEL DST-4®



FOR MORE INFORMATION CALL

GOLDEN EQUIPMENT CO., INC.

1-800-242-1494

www.goldenequipmentcompany.com



MODEL 210®



MODEL 435®

# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

#### “SWEEPER SPECIFICATIONS SECTION”

SECTION	SPECIFICATION DETAILS
01)POWER UNIT	<ul style="list-style-type: none"> <li>a) The sweeper power unit shall be a diesel fueled, water-cooled, turbocharged Tier-3 industrial engine.</li> <li>b) Piston displacement shall be not less than 276 cubic inch.</li> <li>c) Engine shall develop not less than 99 HP @ 2500 RPM and 274 ft. lbs. torque @ 1400 RPM.</li> <li>d) Engine shall be inline, 4 cycle, 4.19-inch bore and 5.00 inch stroke.</li> <li>e) Cylinder construction shall be wet sleeve type.</li> <li>f) Spin-on replacement type oil filter to be supplied.</li> <li>g) 12-volt ignition, electric starter and minimum 95-amp alternator with charge indicator gauge mounted on sweeper control console in cab.</li> <li>h) Auxiliary engine shall have an automatic shutdown system when coolant temperature too high, coolant level to low or oil pressure is too low.</li> <li>i) Unit shall share a 50-gallon fuel tank and batteries with chassis.</li> <li>j) Unit shall have a replaceable element, heavy-duty dry type air cleaner.</li> <li>k) Injector pump shall have centrifugal type variable speed governor for speed control.</li> <li>l) Fuel/water separator shall be supplied on auxiliary engine.</li> </ul>

SECTION	SPECIFICATION DETAILS
02)DUST SEPARATOR	<ul style="list-style-type: none"> <li>a) Separation of dirt and refuse from the air stream shall be accomplished within the hopper by means of a multi-pass cylindrical centrifugal dust separator with a minimum size of 20" diameter and 61" width to insure proper separation efficiency.</li> <li>b) Separator shall be a high capacity centrifugal system with oversized void space to capture separated dust and fine particles.</li> <li>c) Separator shall be designed so that it will not plug with normally encountered debris.</li> <li>d) The combination skimmer door/hood shall be lightweight with a welded frame and wear liner for long life.</li> <li>e) Entire dust separator inlet area shall be lined with a bolt-in replaceable wear resistant liner for long life operation.</li> <li>f) A 61" x 84" steel woven hopper screen of not less than 13 gauge shall be provided to allow air to move freely from the hopper into the centrifugal dust separator.</li> </ul>

SECTION	SPECIFICATION DETAILS
03)HOPPER	<ul style="list-style-type: none"> <li>a) Hopper size to be approximately seven and three tenths (7.3) cubic yards volumetric measurement with an operating load capacity of not less than 6.0 cubic yards.</li> <li>b) Dumping shall be accomplished by means of hydraulically actuated cylinders attached to a rear door which shall have a minimum opening of 84" x 44" with a raker bar moving inside hopper as door is opened and closed to dump debris behind the rear wheels. (Raker bar dump design preferred over raise to dump designs for operator safety, unit stability, and decreased maintenance requirements.)</li> <li>c) Hydraulic cylinder movement shall be controlled with the use of electric toggle switch located on the side of the hopper so discharging of debris may be viewed during dumping for maximum safety.</li> <li>d) In addition to standard dump switch mounted on left side of sweeper a dump switch will be mounted on sweeper control panel inside cab.</li> <li>e) Hopper floor shall have a minimum 22-degree slope.</li> <li>f) Hopper dump door shall be opened and closed hydraulically and be held in the closed position by means of a lock valve located in the hydraulic dump circuit.</li> </ul>

# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

	<ul style="list-style-type: none"> <li>g) An auxiliary electric over hydraulic system to dump unit without need to run auxiliary engine shall be supplied.</li> <li>h) An inspection door (9.75" x 29" minimum) shall be provided on both left and right side of hopper for operator safety, easy viewing inside hopper and insertion of large debris.</li> <li>i) Hopper shall be maintained airtight through use of rubber seals on all doors and openings.</li> <li>j) Hopper shall include a hopper screen suction wall partition extension.</li> <li>k) A frame-mounted sensor with indicator light &amp; audible alarm that signals full load, by weight, shall be mounted at sweeper control panel.</li> <li>l) An amber high-powered strobe light with 2,300,000+ candlepower, a minimum input of 23 Joules and 60 flashes per minute shall be mounted on rear of hopper roof.</li> <li>m) A heavy-duty protective limb guard shall be supplied for strobe light.</li> <li>n) Two (2) work lights shall be mounted at rear of hopper to illuminate the dump area rear of sweeper.</li> <li>o) Two (2) amber flashing warning lights shall be mounted at rear of the hopper.</li> <li>p) A lighted arrow stick with 8 halogen bulbs will be mounted on rear of hopper below unit profile. Controls for indicating left, right, or both shall be in-cab mounted near sweeper control panel for use from either seat.</li> <li>q) To ensure proper lubrication, all grease fittings and non-sealed bearings on sweeper unit must be lubricated through independent lines by a pre-approved Auto-Lube-System.</li> </ul>
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SECTION	SPECIFICATION DETAILS
04)HYDRAULIC SYSTEM	<ul style="list-style-type: none"> <li>a) The hydraulic system shall be adequate for use within the design requirements of the sweeper meeting minimum requirements listed.</li> <li>b) Hydraulic reservoir shall be a minimum of 25-gallons capacity.</li> <li>c) A combination temperature and level gauge shall be mounted on reservoir within easy view of operator.</li> <li>d) An 80-mesh suction strainer and two (2) spin-on replaceable full flow 10-micron oil filters shall be supplied.</li> <li>e) Air-cooled hydraulic oil cooler shall be supplied in system.</li> <li>f) Hydraulic cylinders, gutter broom drive motors, solenoid actuated control valves, relief valves, hydraulic hoses and standard J.I.C. fittings shall be incorporated in system.</li> <li>g) Hydraulic pump shall be engine mounted, gear driven by auxiliary engine.</li> <li>h) Sweeper hydraulic system shall have a primary operating pressure of up to 2500 PSI for gutter brooms and 1500 PSI for pick-up head and dump door.</li> <li>i) An auxiliary hydraulic system that electrically operates hydraulic system to raise gutter brooms and pick-up head and facilitate all dumping functions without auxiliary engine running shall be supplied.</li> </ul>

SECTION	SPECIFICATION DETAILS
05)BLOWER	<ul style="list-style-type: none"> <li>a) Heavy-duty die cast, wear resistant, high strength cast aluminum alloy turbine type open face blower shall be provided to create air pressure and suction.</li> <li>b) Blower shall be computer balanced to within 4 grams.</li> <li>c) Blower shall be coated with ¼" wear resistant rubber bonded to each paddle for long life.</li> <li>d) Blower shall be mounted on self-aligning anti-friction bearings, sealed and lubricated for bearing life. If bearings are not sealed, then an automatic lube system must be furnished on sweeper unit.</li> <li>e) Blower shall be driven from PTO off auxiliary engine by heavy-duty power belt, which shall be adjustable for tension.</li> <li>f) Auxiliary engine assembly shall be adjustable for tensioning the power band without removal utilizing a simple jack bolt system.</li> <li>g) Blower housing shall be bolt-on design for ease of maintenance.</li> </ul>



# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

	<ul style="list-style-type: none"> <li>h) Blower housing shall be lined with a bolt-in wear resistant, replaceable rubber liner, minimum ½" thick, and solid forged steel blower lid, for long life.</li> <li>i) Blower speed not to exceed 3000 RPM to insure smooth efficient performance.</li> </ul>
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SECTION	SPECIFICATION DETAILS
06) PICK-UP HEAD	<ul style="list-style-type: none"> <li>a) A spring balanced all steel fabricated pick-up head with maximum length and width of 87" x 30" I.D. shall be provided.</li> <li>b) Pick-up head shall have separate upper and lower chamber where pressurized air is blasted from the upper chamber through an elongated blast orifice to street surface.</li> <li>c) Blast orifice flange shall be bolt-on design so flange is easily replaced.</li> <li>d) Adjustment mechanism shall be provided so blast orifice gap can be easily adjusted without removing pick-up head from sweeper.</li> <li>e) Pick-up head shall have a minimum 14" diameter pressure inlet ring located on left side of pick-up head.</li> <li>f) A minimum 14" diameter pressure hose attached between pick-up head and blower housing shall be provided.</li> <li>g) A bolt-on pressure inlet ring with turning vanes shall be provided for efficient performance and easy cost effective serviceability.</li> <li>h) A minimum 14" diameter suction hose, attached to a quick disconnect transition at the hopper for ease of cleaning, shall extend down to the right side of pick-up head and shall be attached to the pick-up head suction nozzle inlet ring which shall be constructed of ¼" steel.</li> <li>i) Suction and pressure hoses shall be heavy-duty in construction with minimum 3/8" thick wall construction for long life.</li> <li>j) Pick-up head shall be equipped with 2" wide adjustable side mounted integral alloy steel carbide runners for maximum pick-up ability and long life.</li> <li>k) Skid runners to be warranted for two (2) years/2,000 hours prorated.</li> <li>l) Side plates shall be symmetrical for optimum life.</li> <li>m) Pick-up head shall be raised and lowered hydraulically by a single switch on in-cab sweeper control panel.</li> <li>n) Pressure inlet ring shall be equipped with an adjustable pressure relief for optimum leaf and light debris sweeping.</li> <li>o) Pressure relief control shall be centrally mounted inside cab.</li> <li>p) Automatic Sweep Interrupt (ASI) System must be supplied. Electronic circuit designed to engage when transmission gear selector is placed into reverse or reset switch activated and shall consist of following design:               <ul style="list-style-type: none"> <li>1) A switch shall be supplied to set system into auto (Activated) mode or manual (Off) mode.</li> <li>2) When unit shifted into reverse system shall shut down blower, auxiliary engine rpm's, water system and lift pick-up head and gutter brooms in operation.</li> <li>3) System shall have a memory to re-engage all items that were in operation when reset switch activated except auxiliary engine rpm's.</li> <li>4) System does not automatically reengage when unit put in drive for added safety and to give operator control of process to lessen possibility of damage if engaged in inappropriate area.</li> <li>5) Operator must raise auxiliary engine rpm's manually for added safety and control.</li> <li>6) Reset switch shall mirror operation of system when put in reverse for added operator control and flexibility.</li> </ul> </li> </ul>

SECTION	SPECIFICATION DETAILS
07) GUTTER BROOMS	<ul style="list-style-type: none"> <li>a) Dual gutter brooms shall be minimum 43" diameter, wire filled vertical digger type for removing debris from gutter area.</li> </ul>

# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

	<ul style="list-style-type: none"> <li>b) Gutter brooms shall be hydraulic motor driven and shall be positioned laterally and vertically by one hydraulic cylinder.</li> <li>c) Gutter broom down pressure shall be automatically adjusted to load by a pressure sensing sequence valve inline with gutter broom torque motor.</li> <li>d) Each gutter broom shall have adjustment for bristle contact pattern and wear.</li> <li>e) Each gutter broom shall have lateral flexibility to swing rearward 15" when encountering the impact of an immovable object thus avoiding damage to the broom assembly.</li> <li>f) Each gutter broom shall have a single spring adjustment to allow downward compensation for bristle wear and shall be free floating to follow street contour.</li> <li>g) Each gutter broom shall be held in the up and transit position by use of an electric lock valve attachment. (Broom designs requiring chains or similar mechanical devices, levers, etc. for travel support are unacceptable due to operator safety concerns.)</li> <li>h) Adjustable flow control valves shall regulate upward motion of gutter brooms.</li> <li>i) Each gutter broom shall be controlled from inside the cab by a single electric toggle switch.</li> <li>j) Each gutter broom shall additionally incorporate a hydraulically actuated tilt capability of 27 degrees, remotely controlled from the operator's control panel in cab to allow instant angle adjustment for removal from deep gutters (such as those resulting from multiple overlays of blacktop).</li> <li>k) Each gutter broom shall be supplied with a gutter broom drop down feature allowing gutter brooms to drop down for road surface agitation in front of pick-up head and to reduce sweeping width for tight locations.</li> <li>l) Each gutter broom shall be supplied with extensions to enhance placement in gutter areas.</li> <li>m) A floodlight shall be supplied for both left and right gutter brooms. Each light will have an independent in cab control switch.</li> <li>n) An 8" parabolic mirror shall be supplied for both left and right gutter brooms.</li> <li>o) Unit shall have capability of operating both gutter brooms simultaneously with pick-up head for a sweeping path of up to 142".</li> </ul>
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SECTION	SPECIFICATION DETAILS
08) DUST CONTROL SYSTEM	<ul style="list-style-type: none"> <li>a) Water tank(s) shall have 330-gallon minimum capacity, constructed of recyclable polyethylene for strength and puncture resistance.</li> <li>b) Tank(s) shall be 100% rustproof.</li> <li>c) Tank(s) shall be bolt-in design for easy removal.</li> <li>d) Water tank must have baffles built-in for vehicle safety or be multiple tank design for same effect.</li> <li>e) A sight level gauge shall be supplied for water tank(s).</li> <li>f) Water from tank(s) to be filtered by 80-mesh cleanable filter located between tank(s) and water pump.</li> <li>g) Pump shall be 12V electric design delivering minimum of 5 GPM @ 25 PSI system relief pressure with an electronic solid state level sensor to automatically shut off pump and turn on low water warning lamp when water depleted.</li> <li>h) Electric solenoid water control valves shall be in-cab controlled.</li> <li>i) Minimum of four (4) nozzles shall be supplied on pick-up head.</li> <li>j) Minimum of two (2) nozzles shall be supplied for each gutter broom.</li> <li>k) One (1) nozzle shall be located in hopper inlet.</li> <li>l) Water nozzles to be located on outside of pick-up head and suction tube for easy inspection and superior dust control.</li> <li>m) High output water system shall be supplied as follows for increased dust control during peak sweeping conditions:               <ul style="list-style-type: none"> <li>1) A front debris deflector assembly consisting of two curtains clamped to a mounting bracket shall be supplied under chassis.</li> </ul> </li> </ul>

# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

	<ul style="list-style-type: none"> <li>2) Two (2) spray nozzles shall be mounted to each end of this mounting bracket, total of four (4), directed at gutter brooms.</li> <li>3) Two (2) additional nozzles, one each side, shall be mounted to chassis frame in front of pick-up head directed at gutter brooms.</li> <li>4) Nozzles to be controlled by switches located inside cab on sweeper control panel. Two (2) switches (L &amp; R) are to be supplied for this system, each controlling three (3) nozzles.</li> <li>n) Water tank shall have anti-siphon/anti-pressure filler neck with air gap.</li> <li>o) Flexible 20 ft. long water fill hose for filling water reservoir and fill hose storage rack shall be provided.</li> <li>p) Fill hose shall have quick disconnect fitting for attachment to sweeper fill assembly, 2-1/2", size with self-cleaning cone filter screen.</li> <li>q) Water fill hose shall include a 100 mesh stainless cleanable filter.</li> <li>r) Hydrant wrench shall be supplied.</li> </ul>
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SECTION	SPECIFICATION DETAILS
09) OPERATING CONTROLS	<ul style="list-style-type: none"> <li>a) All operating controls for sweeper shall be mounted inside truck cab and readily accessible to operator in either right or left driving positions.</li> <li>b) All main electrical systems. i.e. ignition, lights, hydraulic and water shall be separately fused to isolate electrical problems to fused area to simplify and speed service.</li> <li>c) Auxiliary engine controls and gauges shall be mounted on centered console panel, and consist of, but not limited to, ignition switch, linear actuator auxiliary engine throttle, oil pressure gauge, water temperature gauge, volt meter, and tachometer.</li> <li>d) Sweeper controls, meters and gauges shall consist of, but not be limited to, right gutter broom, left gutter broom, right and left gutter broom tilt, right and left gutter broom drop-down controls, in-cab dump switch, pick-up head, warning lights, water system switches, and work light, lighted paddle type switches.</li> <li>e) A low water light, hour meter, and leaf pressure bleeder control shall also be supplied on centered sweeper control panel.</li> <li>f) A dump control switch shall be located on the exterior of sweeper just above the left fender for operator safety and control.</li> <li>g) An additional external pump on/off switch shall be located on the exterior of sweeper near connection for wash down gun just above the right fender for operator control.</li> </ul>

SECTION	SPECIFICATION DETAILS
10) ADDITIONAL EQUIPMENT	<ul style="list-style-type: none"> <li>a) Special Wiring Package: Unit shall be fitted with a Severe Weather Sealed Wiring Package: <ul style="list-style-type: none"> <li>1) All external electrical wiring, harnesses and terminations shall be of a sealed, weather-tight design utilizing heat-shrinkable components.</li> <li>2) Additionally, where feasible, all connectors shall utilize solid, cold formed, nickel-plated copper alloy contacts with gas tight crimps (Deutsch Type).</li> </ul> </li> <li>b) Auxiliary 8" hydraulic boom mounted heavy-duty hand hose assembly: <ul style="list-style-type: none"> <li>1) Heavy-duty minimum 3/8" thick hose shall be supplied. Hose shall have a minimum 8" diameter x 10 ft. length with quick disconnect fitting and rear storage brackets.</li> <li>2) A 52" x 8" diameter aluminum suction tube with quick disconnect will be supplied with steel crown nozzle end and storage brackets on rear door.</li> <li>3) Four (4) additional 42" x 8" aluminum suction tube extensions shall be supplied with male/female quick disconnects and storage brackets on rear door.</li> <li>4) Adequate quick disconnect clamps shall be supplied enabling utilization of all tubes simultaneously if required.</li> </ul> </li> </ul>

# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

	<ul style="list-style-type: none"> <li>5) A separate hand held control pendant with mounting bracket at rear of unit shall be supplied. Pendant shall include up/down boom functions and auxiliary engine RPM throttle control.</li> <li>6) All functions of boom movement shall be accomplished without operation of auxiliary engine.</li> <li>c) Work Platform: A suitable size work platform will be provided to allow safe access to auxiliary engine area:             <ul style="list-style-type: none"> <li>1) Access will be accomplished from ground level by steel steps covered with anti skid grating and proper size grab handle to insure maximum safe entry and exit from work platform.</li> <li>2) Work platform shall have suitable safety rails to provide safe work area.</li> </ul> </li> <li>d) A steel constructed storage box shall be supplied for tools, etc. mounted on an independent frame assembly between the auxiliary engine and truck cab.             <ul style="list-style-type: none"> <li>1) Storage box to be molded poly construction and shall be approximately 46"L x 16"H x 32"W with an access door located on each side.</li> <li>2) Storage box shall have two (2) access doors; a full access hinged door on the right (curbside) and a smaller hinged door on left (street side) for easy access.</li> </ul> </li> </ul>
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SECTION	SPECIFICATION DETAILS
11)MANUALS	<ul style="list-style-type: none"> <li>a) Successful bidder shall supply two (2) sweeper operator and two (2) sweeper parts and service manuals with each unit.</li> <li>b) Manufacturer shall have available certifiable training course for complete maintenance and operation of sweeper.</li> <li>c) Manufacturer must have scheduled a minimum of twenty-five (25) training courses per year for convenience of customers scheduling.</li> <li>d) Published training school schedule must be enclosed at time of bid.</li> <li>e) Bidder shall provide operator instruction/safety/maintenance procedures on VHS videocassette with the unit at time of delivery.</li> </ul>

SECTION	SPECIFICATION DETAILS
12)PAINT	<ul style="list-style-type: none"> <li>a) The entire sweeper unit shall be painted with GMC standard white paint applied over a suitable primer system.</li> <li>b) Entire unit shall be painted white to match chassis standard white.</li> <li>c) Pick-up head, gutter brooms, and chassis frame shall be painted black.</li> </ul>

SECTION	SPECIFICATION DETAILS
13)WARRANTIES	<ul style="list-style-type: none"> <li>a) The sweeper unit shall be free from defective materials and workmanship for a period of 24 months or 2000 hours.</li> <li>b) Pick-up head skid plates carry a 2-year/2000 hour prorated warranty.</li> <li>c) Water tank(s) carry lifetime rust through warranty.</li> <li>d) Chassis warranties detailed in chassis specification section.</li> </ul>

### “CAB OVER GMC T7500 CHASSIS SPECIFICATIONS”

SECTION	SPECIFICATION DETAILS
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# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

01)GENERAL	<ul style="list-style-type: none"> <li>a) Cab and chassis shall be commercially manufactured and fully equipped for highway operation, and totally compatible in size, weight capacity, and function for use with the sweeper unit proposed.</li> <li>b) Chassis shall be a "2008" or newer, cab over, tilt cab design.</li> <li>c) Steel Frame to be 12.69SM (80,000 PSI), with 1,015,000 RBM.</li> <li>d) Gross vehicle weight rating to be not less than 33,000 GVW.</li> <li>e) Curb weight with cab, fuel, water, oil, and tires shall be approximately 9,250 Lbs.</li> <li>f) Chassis cab enclosed and equipped with tinted safety glass all around. (Sliding windows not acceptable).</li> </ul>
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SECTION	SPECIFICATION DETAILS
02)WARRANTY	<ul style="list-style-type: none"> <li>a) Total chassis coverage is 24 months/unlimited mileage.</li> <li>b) Engine (Diesel) coverage is 36 months/unlimited mileage.</li> <li>c) Drive train (Excluding clutch) coverage is 36 months/unlimited mileage.</li> <li>d) Allison 2500RDS coverage is 36 months/unlimited mileage.</li> <li>e) Frame coverage is 60 months/unlimited mileage.</li> <li>f) Cab corrosion coverage is 60 months/unlimited mileage.</li> <li>g) Emission coverage is 5 years/100,000 miles.</li> <li>h) Warranty is 100% parts and labor unless otherwise noted as provided by chassis manufacturer.</li> </ul>

SECTION	SPECIFICATION DETAILS
03)WHEELBASE	<ul style="list-style-type: none"> <li>a) Shall be 165" maximum and shall provide 134" maximum between back of cab and center of rear axle for proper load distribution.</li> </ul>

SECTION	SPECIFICATION DETAILS
04)AXLES	<ul style="list-style-type: none"> <li>a) Front axle to be a minimum 12,000 lbs., with suspension of 12,000 lbs.</li> <li>b) Front shock absorbers to be supplied.</li> <li>c) Rear axle shall be 21,000 lbs., two (2) speed.</li> <li>d) Rear suspension to be air bag type and minimum of 21,000 lbs.</li> </ul>

SECTION	SPECIFICATION DETAILS
05)STEERING	<ul style="list-style-type: none"> <li>a) Dual operator controlled integral power steering with cruise control shall be supplied.</li> <li>b) Cab shall be supplied with factory installed dual operator gauge package.</li> <li>c) Diameter of steering wheels to be a minimum of 18.9".</li> </ul>

SECTION	SPECIFICATION DETAILS
06)BRAKES	<ul style="list-style-type: none"> <li>a) Service brakes are to be full air with 12.9 CFM air compressor with two (2) air tanks mounted between rails adequately spaced with manual drain. (Air over hydraulic not acceptable).</li> <li>b) Front brakes shall be cam type, 15" x 4" Q-Plus with dust shields.</li> <li>c) Rear brakes shall be cam type, 16.5" x 7" Q-Plus with dust shields.</li> <li>d) Brake system shall have automatic slack adjusters – front and rear.</li> <li>e) Four-channel anti-lock brake system shall be supplied.</li> <li>f) Parking brake shall air activated spring loaded.</li> <li>g) A Bendix air dryer Model AD-15 w/automatic moisture ejector shall be supplied.</li> </ul>

# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

SECTION	SPECIFICATION DETAILS
07)CAB	<ul style="list-style-type: none"> <li>a) Cab shall have in-dash chassis manufacturer's factory installed air conditioner for operator safety and comfort. (After market air conditioners are unacceptable).</li> <li>b) Both driver and passenger seats shall be individual, air suspension, high-back adjustable type with cloth inserts and safety seat belts.</li> <li>c) Tinted glass shall be provided.</li> <li>d) Gauges shall consist of voltmeter, oil, water, fuel, air pressure, and electronic speedometer with trip odometer.</li> <li>e) Chassis hour meter shall be furnished to record truck engine hours.</li> <li>f) Warning indicators shall be supplied to indicate low oil pressure, and high coolant temperature.</li> <li>g) Warning light and buzzer shall be supplied for low brake air pressure.</li> <li>h) Chassis shall be equipped with a fresh air heater, defroster, electric intermittent windshield wipers with washers, coat hook, lighter, dual sun visors, ashtray and single electric horn.</li> <li>i) 12 volt power supply post type shall be provided.</li> <li>j) Chassis shall be equipped with 7" x 16" dual stainless steel mirrors, two (2) 8" parabolic mirrors.</li> <li>k) An AM/FM stereo radio with CD Player shall be provided.</li> <li>l) A cab mounted refillable Dry chemical, DOT approved fire extinguisher shall be supplied.</li> <li>m) A hazard triangle reflector kit shall be supplied.</li> <li>n) Cab to be painted chassis manufacturers standard white. (Sweeper painted to match chassis).</li> </ul>

SECTION	SPECIFICATION DETAILS
08)ELECTRICAL	<ul style="list-style-type: none"> <li>a) Shall consist of two (2) multiple beam headlights with dash beam indicator, instrument panel, taillights, and stoplights.</li> <li>b) Front and rear turn signals, self-canceling signal switch, equipped for four way flashing. Taillights, stop lights, and signal lamps may be in combination.</li> <li>c) Chassis shall be supplied with two (2) 12 volt 750 CCA heavy-duty maintenance free batteries for a total of 1500 CCA.</li> <li>d) Chassis supplied with a 100-amp alternator.</li> </ul>

SECTION	SPECIFICATION DETAILS
09)ENGINE	<ul style="list-style-type: none"> <li>a) Engine shall be heavy-duty in-line six cylinder turbocharged diesel with a minimum of 215 HP @ 2200 RPM with 7.8L displacement, and 560 ft.-lbs. torque at 1450 RPM.</li> <li>b) Dry type single element air cleaner with restriction indicator mounted on intake with safety element.</li> <li>c) Automatic shutdown system activated by low or high engine oil pressure and high coolant temperature with reset feature shall be supplied.</li> <li>d) A Racor heated fuel/water separator shall be supplied.</li> <li>e) Chassis engine block heater shall be supplied.</li> </ul>

SECTION	SPECIFICATION DETAILS
10)FUEL	<ul style="list-style-type: none"> <li>a) A 50 gallon steel tank shall be supplied and supply fuel to both engines.</li> </ul>

SECTION	SPECIFICATION DETAILS

# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

11) TIRES AND WHEELS	<ul style="list-style-type: none"> <li>a) Heavy-duty first line quality tubeless tires to be minimum 11R x 22.5, 14 ply, with duals in rear for adequately carrying full load of sweeper and for maximum stability.</li> <li>b) Wheels to be 10-hole disc – 22.5 x 8.25 hub-piloted.</li> </ul>
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SECTION	SPECIFICATION DETAILS
12) TRANSMISSION	<ul style="list-style-type: none"> <li>a) Shall be a heavy-duty Allison 2500RDS-P electronic automatic with six (6) forward speeds, and one (1) reverse speed.</li> <li>b) Transmission oil cooler in radiator shall be provided.</li> <li>c) Shifter to be floor mounted “T” handle design.</li> <li>d) Transynd synthetic transmission fluid shall be furnished.</li> </ul>

### “OPTIONAL ITEMS PRICING SECTION”

BID PRICE (NET)	SPECIFICATION DETAILS
<p><u>\$ 18,500 EA</u> (Price Adder)</p>  <p><u>\$ 950 EA</u> (Price Adder)</p>  <p><u>\$ 1,500 EA</u> (Price Adder)</p>  <p><u>\$ 200 EA</u></p>	<p><b>SWEEPER OPTIONAL ITEMS:</b></p> <p><b>Stainless Steel Hopper Assembly Option:</b></p> <ul style="list-style-type: none"> <li>a) Stainless Steel Hopper Package: Package will have the following minimum components fabricated out of chrome-nickel, non-hardening Austenitic stainless steels UNSS 30400 with a minimum chromium content of 18-20% and UNSS 20400 with a minimum chromium content of 15-17%, where appropriate for strength and maximum corrosion, salt spray, and rust resistance.               <ul style="list-style-type: none"> <li>1) Hopper weldment including entire floor, sides and roof.</li> <li>2) Hopper dump door with port covers.</li> <li>3) Hopper side inspection doors.</li> <li>4) Hopper screen and screen supports.</li> <li>5) Raker plate.</li> <li>6) Skimmer hood.</li> </ul> </li> <li>b) Manufacturer must supply a letter certifying the entire body is made of stainless steel, stating type, grade, manufacturer, origin and chromium content which must be a minimum of 15-17%.</li> <li>c) Hoppers requiring coatings and/or stainless steel liners in lieu of all stainless steel construction are unacceptable for intended service.</li> </ul> <p><b>Abrasion Protection Package:</b></p> <ul style="list-style-type: none"> <li>a) Hopper screen baffles, suction inlet liner, protective hopper wall liners, separator and blower housing wall liners, pressure side pick-up head wear protection pads, suction nozzle liner, and heavy duty minimum 3/8" thick pressure and suction hoses shall be supplied.</li> </ul> <p><b>Front Curtain Lift System option:</b></p> <ul style="list-style-type: none"> <li>a) To enhance the ability to sweep leaves a “Front Curtain Lift System” shall be furnished with an in cab control switch to facilitate raising of heavy front curtain.</li> </ul> <p><b>Air Purge System:</b></p>

# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

<p>(Price Adder)</p>  <p><b>\$ 7,000 EA</b> (Price DEDUCT)</p>	<p>a) An air purge system to facilitate purging dust control system during freezing conditions will be supplied.</p> <p><b>CHASSIS OPTIONAL ITEMS:</b>  <b>Chassis Option:</b>  a) "2009" International 4300-M7 chassis with VT365, 200HP engine in place of GMC T7500 chassis as listed under bid chassis section.</p>
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### “OPTIONAL CONVENTIONAL CHASSIS” “INTERNATIONAL 4300-M7 SPECIFICATIONS”

SECTION	SPECIFICATION DETAILS
01)GENERAL	<p>g) Cab and chassis shall be commercially manufactured and fully equipped for highway operation, and totally compatible in size, weight capacity, and function for use with the sweeper unit proposed.</p> <p>h) Chassis shall be an International Model 4300-M7 conventional cab design with tilt hood, Model Year “2009” emissions certified.</p> <p>i) Frame to be straight channel steel rails 50,000 PSI).</p> <p>j) Gross vehicle weight rating to be not less than 30,000 GVW.</p> <p>k) Curb weight with cab, fuel, water, oil, and tires shall be approximately 9,000 Lbs.</p> <p>l) Chassis cab enclosed and equipped with tinted safety glass all around. (Sliding windows not acceptable).</p>

SECTION	SPECIFICATION DETAILS
02)WARRANTY	<p>i) Total chassis coverage is 24 months/unlimited mileage.</p> <p>j) Engine (Diesel) coverage is 36 months/150,000 miles.</p> <p>k) Drive train coverage is 24 months/unlimited mileage.</p> <p>l) Frame coverage is 60 months/unlimited mileage.</p> <p>m) Cab corrosion coverage is 60 months/unlimited mileage.</p> <p>n) Towing package is 12 months.</p> <p>o) Warranty is 100% parts and labor unless otherwise noted as provided by chassis manufacturer.</p>

SECTION	SPECIFICATION DETAILS
03)WHEELBASE	<p>b) Shall be 152” and shall provide 84” between back of cab and center of rear axle for proper load distribution.</p>

SECTION	SPECIFICATION DETAILS
04)AXLES	<p>e) Front axle to be a minimum 8,000 lbs., with suspension of 8,000 lbs.</p> <p>f) Front shock absorbers to be supplied.</p> <p>g) Rear axle shall be 22,000 lbs., two (2) speed.</p> <p>h) Rear suspension to be a minimum of 31,000 lbs., vari-rate with 4,500 lbs. capacity multi-leaf auxiliary rubber spring.</p>



# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

SECTION	SPECIFICATION DETAILS
05)STEERING	<ul style="list-style-type: none"> <li>d) Dual operator controlled integral power steering with cruise control and tilt shall be supplied.</li> <li>e) Dual gauge clusters shall be supplied.</li> <li>f) Diameter of steering wheels to be a minimum of 18".</li> </ul>

SECTION	SPECIFICATION DETAILS
06)BRAKES	<ul style="list-style-type: none"> <li>h) Service brakes are to be full air with 13.2 CFM air compressor. (Air over hydraulic not acceptable).</li> <li>i) Air tank drain valve, manual with pull cable.</li> <li>j) Front brakes shall be 15" x 3½".</li> <li>k) Rear brakes shall be 16½" x 7".</li> <li>l) Brake system shall have automatic slack adjusters – front and rear.</li> <li>m) Parking brake shall be spring actuated, double diaphragm, 30" MGM Chambers air chambers, with warning light.</li> <li>n) Brake chambers, spring relocated to rear of rear axle for maximum ground clearance.</li> <li>o) Four-channel anti-lock brake system shall be supplied.</li> <li>p) Air dryer shall be supplied on chassis brake system.</li> </ul>

SECTION	SPECIFICATION DETAILS
07)CAB	<ul style="list-style-type: none"> <li>o) Cab shall have in-dash chassis manufacturer's factory installed air conditioner for operator safety and comfort with fresh air filter. (After market air conditioners are unacceptable).</li> <li>p) Both driver and passenger seats shall be individual, air suspension, high-back, adjustable type with lumbar support and safety seat belts.</li> <li>q) Tinted glass shall be provided.</li> <li>r) Dual sun visors, coat hook, Storage pocket on drivers door, cigar lighter, single electric horn, electric windshield washer and 2-speed electric wipers with intermittent wiper switch shall be provided.</li> <li>s) Chassis shall be equipped with a fresh air heater and defroster.</li> <li>t) An AM/FM stereo radio with CD player shall be provided.</li> <li>u) Instrument panel shall be flat.</li> <li>v) Gauges shall consist of voltmeter, oil, water, fuel, air pressure, and electronic speedometer with trip odometer.</li> <li>w) Chassis hour meter shall be furnished to record truck engine hours.</li> <li>x) Warning indicators shall be supplied to indicate low oil pressure, and high coolant temperature.</li> <li>y) Warning light and buzzer shall be supplied for low brake air pressure.</li> <li>z) Chassis shall be equipped with West Coast Factory OEM mirrors, and two (2) 8" diameter parabolic mirrors.</li> <li>aa) West Coast factory OEM mirrors shall be electric heated and remote controlled from in-cab controls for operator safety and convenience.</li> <li>bb) A cab mounted refillable Dry chemical, DOT approved fire extinguisher shall be supplied.</li> <li>cc) A hazard triangle reflector kit shall be supplied.</li> <li>dd) Cab to be painted International standard white. (Sweeper painted to match chassis).</li> </ul>

SECTION	SPECIFICATION DETAILS
08)ELECTRICAL	<ul style="list-style-type: none"> <li>e) Shall consist of two (2) multiple beam headlights with dash beam indicator, instrument panel, taillights, and stoplights.</li> </ul>

# STATE OF WEST VIRGINIA – BID #708EC012

## SPECIFICATIONS – DESIGN DETAILS

### TYMCO MODEL 600 (CAB OVER & CONVENTIONAL)

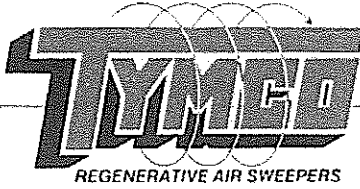
	<ul style="list-style-type: none"> <li>f) Front and rear turn signals, self-canceling signal switch, equipped for four way flashing. Taillights, stop lights, and signal lamps may be in combination.</li> <li>g) Chassis shall be supplied with two (2) 12 volt 650 CCA heavy-duty maintenance free batteries for a total of 1300 CCA.</li> <li>h) Chassis supplied with a 110-amp alternator.</li> </ul>
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SECTION	SPECIFICATION DETAILS
09)ENGINE	<ul style="list-style-type: none"> <li>f) Engine shall be heavy-duty Internation MaxxForce 7 or approved equal V-8 turbocharged air-to-air inter-cooled diesel with a minimum of 200 HP @ 2600 RPM with 6.4L, 385 cubic inch displacement, and 560 ft.-lbs. torque at 1400 RPM.</li> <li>g) Dual element dry type air cleaner with restriction indicator dash mounted.</li> <li>h) Automatic glow plug with indicator light shall be supplied.</li> <li>i) Automatic shutdown/over temperature engine coolant protection system shall be furnished.</li> <li>j) A fuel/water separator shall be supplied.</li> <li>k) Chassis engine block heater shall be supplied.</li> </ul>

SECTION	SPECIFICATION DETAILS
10)FUEL	<ul style="list-style-type: none"> <li>b) A 50 gallon steel tank shall be supplied and supply fuel to both engines.</li> </ul>

SECTION	SPECIFICATION DETAILS
11)TIRES AND WHEELS	<ul style="list-style-type: none"> <li>c) Heavy-duty first line quality tubeless tires to be minimum 11R x 22.5, 14 ply, with duals in rear for adequately carrying full load of sweeper and for maximum stability.</li> <li>d) Wheels to be 10-hole disc – 22.5 x 8.25 DC.</li> </ul>

SECTION	SPECIFICATION DETAILS
12)TRANSMISSION	<ul style="list-style-type: none"> <li>e) Shall be a heavy-duty Allison 2500RDS-P electronic automatic with five (5) forward speeds, and one (1) reverse speed. Transmission shall have external oil filter with overdrive, less PTO.</li> </ul>



January 9, 2007


To Whom It May Concern:

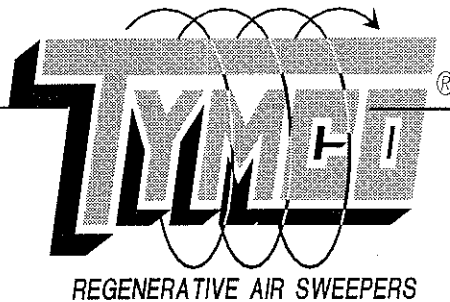
The TYMCO Model 600 blower was tested by the Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&M University on June 7, 1994 under contract #94-1270. These tests were made in accordance with figure #13 of the ANSI/AMCA Standard 210-85 test procedures. These test reports allow TYMCO to certify the following:

1. TYMCO certifies that the Model 600 fan has rated performance equal to or greater than 17,000 CFM.
2. TYMCO certifies that the Model 600 fan has rated performance equal to or greater than 65 inches of water column.
3. TYMCO certifies that the Model 600 fan has been tested by Texas A&M University in compliance with the Air Movement and Control Association Standard 210-85.

Sincerely,

TYMCO INTERNATIONAL, LTD.

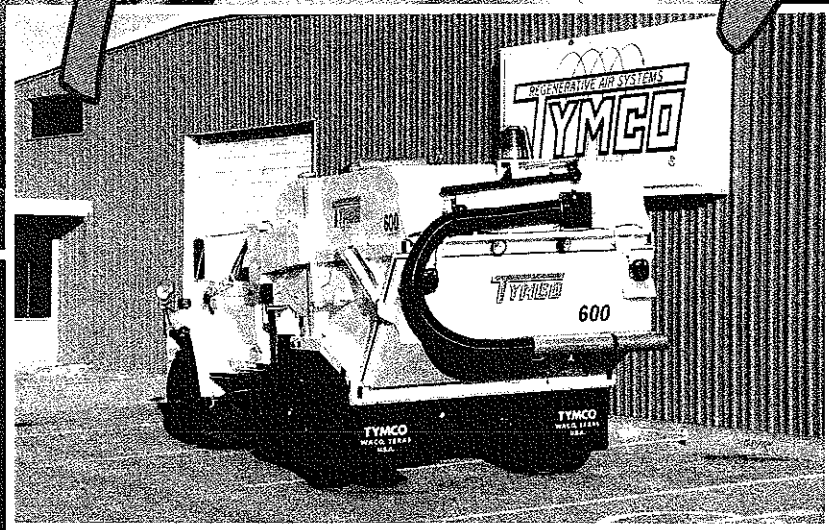
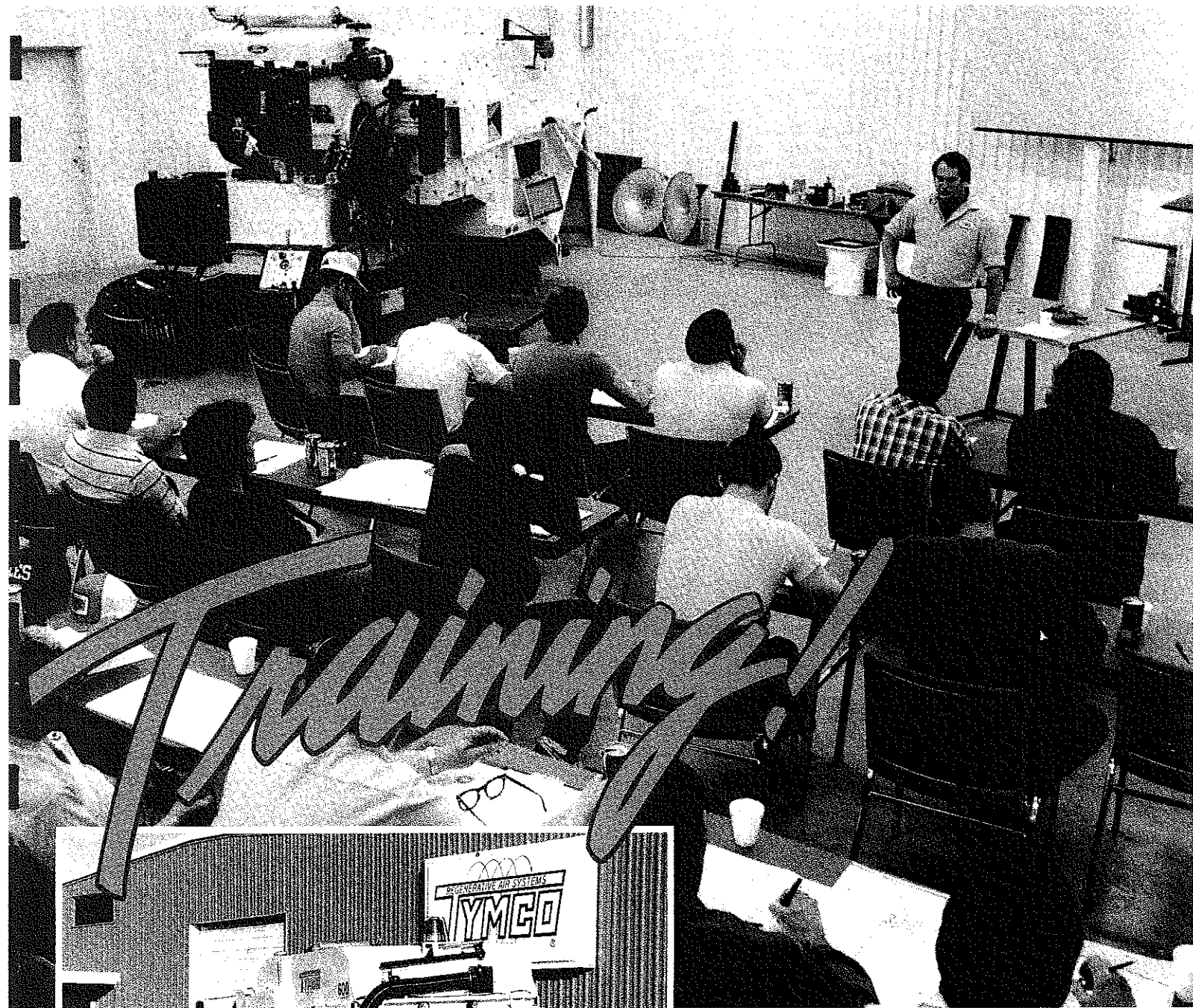
  
Gary B. Young  
Vice President - Engineering



## **REGENERATIVE AIR SWEEPER WARRANTY**

TYMCO REGENERATIVE AIR SWEEPERS are warranted to be free from defective materials and workmanship for a period of 24 months from date of delivery and such period being hereinafter referred to as "warranty period". It is the sole obligation of Seller with respect to this warranty period to replace free of charge, F.O.B. Waco, Texas, any part or parts which may prove to be defective due to defective workmanship or materials within the warranty period provided no disarrangement of using unauthorized parts or changes to the machinery be made voluntarily or by incompetence, carelessness, negligence, accident, or need of attention upon the part of the purchaser, agents, employees or other parties. This warranty shall not cover normal maintenance and adjustments, and the same not include nor shall Seller be liable or responsible for material for normal wear and usage for any damages by reason of loss of production, down time or loss of profits or income arising from any reason whatsoever. Seller reserves the right to change the design and construction of said sweeper when in its sole opinion any such change represents an improvement of the sweeper. All outside purchased equipment and accessories are guaranteed only to the extent that the manufacturer's guarantee may apply and are not subject to this warranty or to any implied warranty.

This warranty is in lieu of all other warranties, expressed or implied. No person is authorized to give any other warranties or to assume any other liability on the Company's behalf unless made in writing by the Company, and no person is authorized to give any warranties or to assume any liabilities on the Seller's behalf unless made in writing by the Seller.

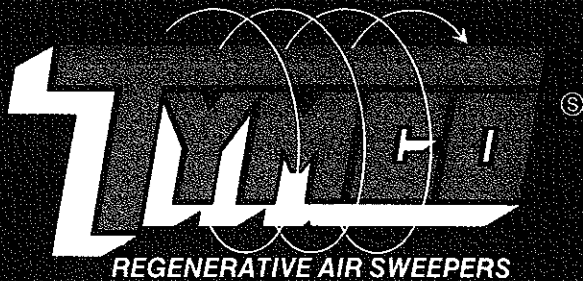


TYMCO's 3,500 square foot training facility, shown above, is wholly dedicated to detailed maintenance and service instruction for its full product line.

**Commitment!** that is what TYMCO®—offers BEFORE and AFTER you get the keys to your new REGENERATIVE AIR SWEEPER®. At TYMCO we take pride in the sweepers we manufacture as well as the people we train to sell, use, and service them. And to demonstrate our interest, we at TYMCO have added to our 1/4-million dollar teaching facility offering 3500 square feet of air-conditioned/heated floor space designed exclusively for training, demonstrating and learning. All necessary tools and supplies are furnished for each comprehensive product line training session.

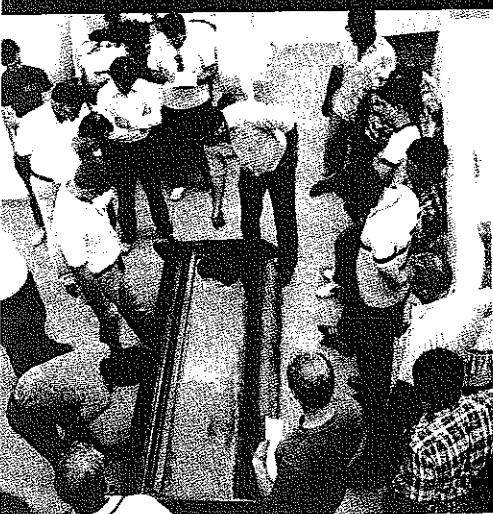
More than twenty-five times per year we provide opportunities for those who share our interest and pride to become equipped to sell and operate as well as repair TYMCO sweepers. A thorough and extensive 2 day school for operators and mechanics is offered; classes are maintained at low enrollment levels in order to assure the individual care and attention we at TYMCO want to provide.

**Your Results!** Proper and thorough training on your TYMCO sweeper will result in maximum curb miles swept at the least amount of cost.



REGENERATIVE AIR SWEEPERS

For more information, contact your local TYMCO



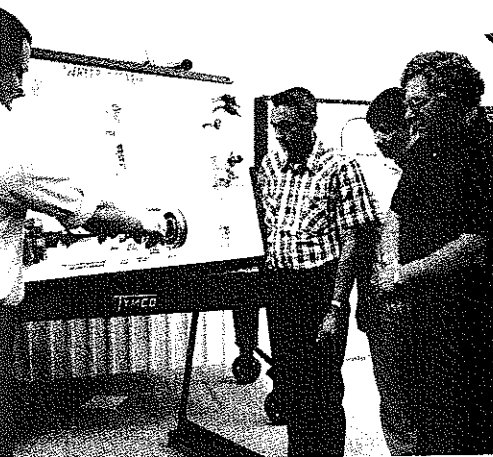
Even intricate parts of our sweepers are important at our TYMCO training center. Students observe as a TYMCO instructor describes the servicing of a pick-up head assembly.



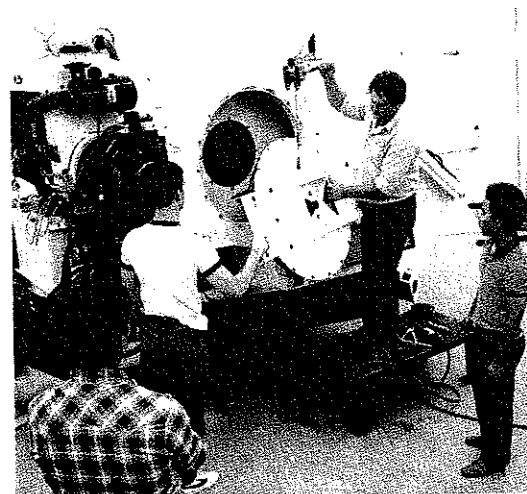
Students watch with interest as a TYMCO instructor explains the proper repair procedure for a small sweeper component.



Sweepers are used for demonstration and instruction at our training facility. Students concentrate as an instructor displays the various techniques needed to correctly adjust and operate a TYMCO gutter broom.



Illustrations as well as operational sweepers are used by the TYMCO staff to explain functions and trouble-shooting of water, hydraulic, and electrical systems involved in the TYMCO sweeper.



A TYMCO instructor employs the use of a full scale sweeper to illustrate the pulling and maintenance of a TYMCO sweeper blower assembly.



Classroom instruction of theory and schematics is emphasized in conjunction with "hands-on" experience offered at our TYMCO training facility.

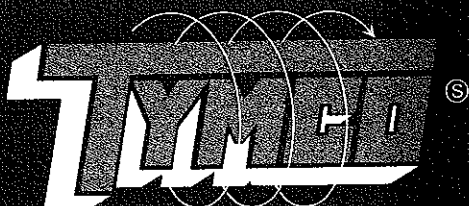
## HIGHLIGHTS OF THE TYMCO® TRAINING PROGRAM

Other technical product-oriented companies may train their customers in the use of their products, but no one does it like TYMCO. We provide daily ground transportation from hotel to our training facility, and, lunch is on us. While you or your people are here there will be a thorough "hands-on" indoctrination of:

- The REGENERATIVE AIR SWEEPER® Simplified.
- Trouble-shooting the hydraulic system and repair of the component parts.
- Trouble-shooting the electrical and water systems.
- How to rebuild and repair small parts and components.
- Trouble-shooting the pick-up head.
- Plant tours.
- Certificate awarded to those completing training school.

Registration for each training session is required. Please contact your nearest TYMCO dealer or our factory office for full details including next scheduled session.

**Call toll free 1-800-258-9626**





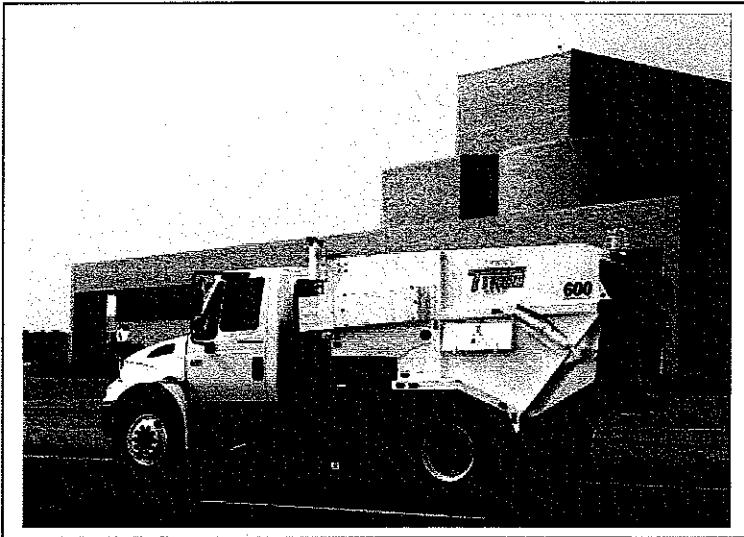
# Golden Equipment Co., Inc.

Public Works

Sewer

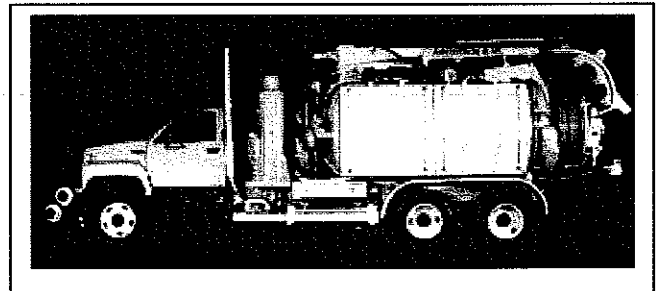
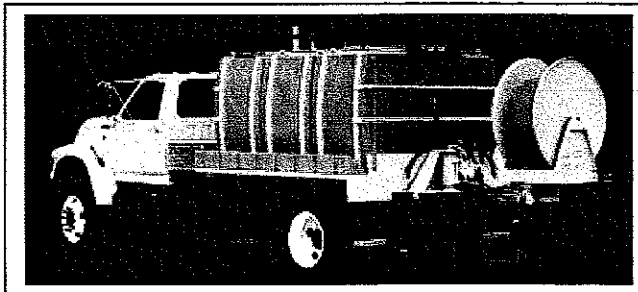
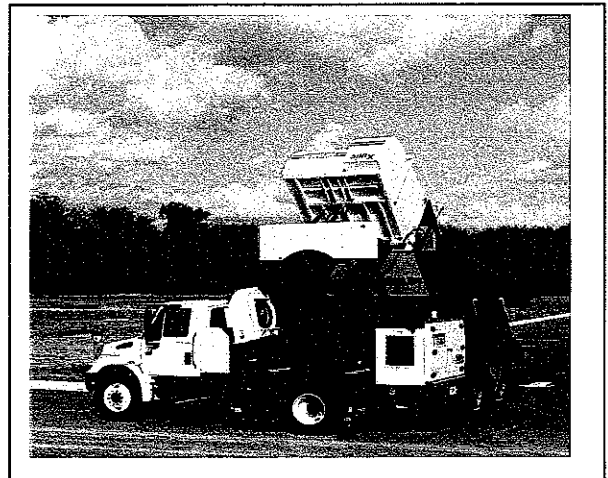
Contractors Equipment

## 1-800-242-1494



STREET SWEEPERS

**\*\*GOLDEN EQUIPMENT CO., INC.** has been offering the finest quality Sales, Service and Parts for over 20 years. We offer convenient **NO BID PROGRAMS** for our Municipal customers and flexible financing and leasing options. Our knowledgeable staff can provide information on our Top of the line products such as STREET SWEEPERS, SEWER FLUSHERS and SANITARY TV INSPECTION EQUIPMENT to name a few. Refurbished / preowned equipment / rentals and contracting are also available.



COMBINATION SEWER CLEANERS

\* Sales

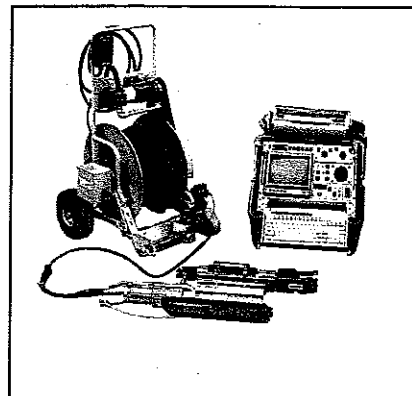
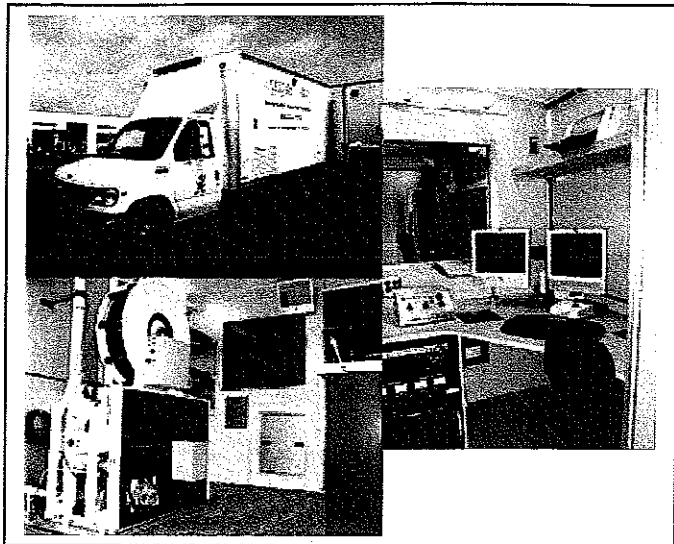
\* Service

\* Parts

Myerstown, PA

Mars, PA

Charleston, WV



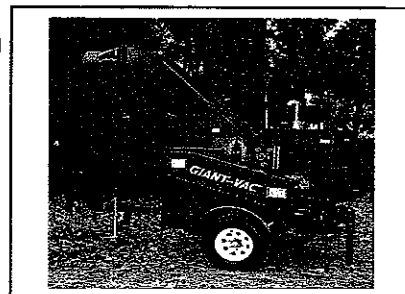
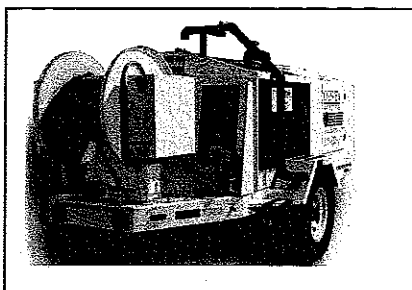
**SEWER LINE INSPECTION  
EQUIPMENT**

**GOLDEN EQUIPMENT CO., INC.**

SERVING PENNSYLVANIA AND WEST VIRGINIA

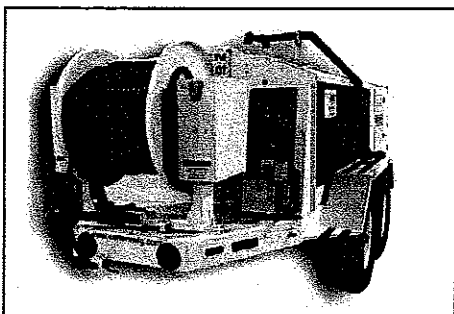
**1-800-242-1494**

[www.goldenequipmentcompany.com](http://www.goldenequipmentcompany.com)



**\*\*\*PREOWNED EQUIPMENT AND CONTRACTING AVAILABLE\*\*\***

**HYDROJETTERS**

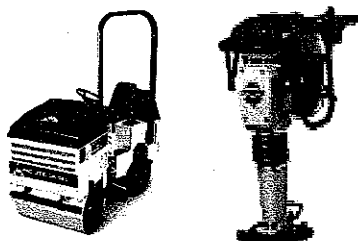


**LEAK DETECTORS**

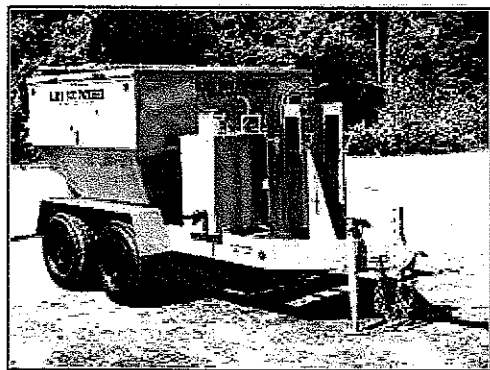


**LOCATORS**

**LEAF LOADERS / CHIPPERS**



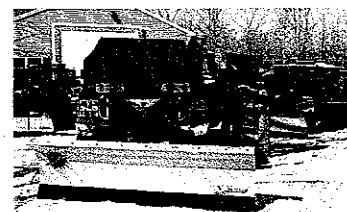
**CONSTRUCTION  
EQUIPMENT**



**HOT PATCHERS**



**SPREADERS/SNOW PLOWS**





## **History of Golden Equipment Co., Inc.**

Golden Equipment Co. Inc. was started in the mid 70's in Mars Pennsylvania, selling and servicing sewer cleaners and accessories. In the mid 80's Golden Equipment Co., was incorporated and a second office was opened in Charleston West Virginia. At this time Golden Equipment Co. picked up the Tymco street sweeper account and other accounts affiliated with the public works departments. Due to Golden Equipment Company's reputation in sales and service our manufacturers we represent have expanded our territories to include all of PA. and WV. With this commitment from our manufacturers, and in order to better serve our customers in Eastern PA, we opened our third office in Myerstown PA in the late 90's.

Golden Equipment Co., Inc. has over 25 years of experience in the sales and service of municipal equipment. We now have three locations and sixteen full time employees. Our service departments have mobile maintenance vehicles with factory trained technicians to make any necessary adjustments or repairs at the customers facility.

**Golden Equipment Company, Inc**

<http://www.goldenequipmentcompany.com>