

**BID SPECIFICATIONS**

**DUMP TRUCK**

**BID OPENING DATE: NOVEMBER 26, 2013**

**TIME: 10:00 A.M.**

TOWNSHIP OF WANTAGE  
SUSSEX COUNTY  
NEW JERSEY

MAYOR  
Ronald Bassani

TOWNSHIP COMMITTEE MEMBERS  
William Gaechter  
William DeBoer

MUNICIPAL ADMINISTRATOR/CLERK  
James R. Doherty

Fee: \$5.00 if mailed

November 2013

**TOWNSHIP OF WANTAGE  
NOTICE TO BIDDERS**

**NOTICE** is hereby given that sealed bids will be received by the Administrator/Clerk of the Township of Wantage, Sussex County, New Jersey, at the Wantage Township Municipal Building, 888 Route 23, Wantage, New Jersey 07461, on **November 26, 2013**, at 10:00 a.m. prevailing time. Bids will be opened and publicly read at this time. Bids are sought for the following items:

**PUBLIC WORKS DUMP TRUCK CAB AND CHASSIS**

Bids will be opened and read in public at the Wantage Township Municipal Building, 888 State Route 23, Wantage Township, Sussex County, New Jersey. The Township will award a contract based upon the lowest bid to the responsive, responsible bidder submitting the lowest bid.

Specifications and bid forms may be obtained by any interested bidder at the Wantage Township Municipal Building, 888 Route 23, Wantage, New Jersey 07461, in the office of the Wantage Township Clerk, during normal business hours. Bid packages are provided at no cost if picked up in person by prospective bidders, or for electronic transmission (via E-mail). Requests for mailing of bid packages will require prior submission of \$5.00 to cover the cost of postage and handling. Bids must be submitted in standard proposal form and must be enclosed in a sealed envelope with the name and address of the bidder on the outside addressed to the Township Clerk, Township of Wantage, 888 Route 23, Wantage, New Jersey 07461, to be accompanied by a certified check, cashier's check, or bid bond made payable without condition to the Township of Wantage in an amount of 10% of the bid, but not to exceed \$20,000 (N.J.S.A. 40A:11-21). The Township will not be responsible for late mail deliveries and no bids will be accepted after the time stipulated in the NOTICE TO BIDDER.

The Township Committee reserves the right to award a contract in its sole discretion and further reserves the right to reject any and all bids, waive irregularities, and decide as to the responsibility of the bidders. Each item being bid is to be considered separately and the Township Committee reserves the right to award a bid for each item separately or together, whichever manner is more advantageous to the Township.

Bidders are required to comply with the requirements of P.L. 1975, C. 127 (N.J.A.C. 17:27), the law against discrimination (Affirmative Action).

The Wantage Township Committee reserves the right to award a contract in its sole discretion and further reserves the right to reject any and all bids, waive irregularities, and decide as to the responsibility of the bidders, and make award on a lump sum basis.

James R. Doherty, Township Administrator  
**TOWNSHIP OF WANTAGE**  
Municipal Building, 888 Route 23  
Wantage, New Jersey 07461

**INFORMATION FOR BIDDERS**

## **DUMP TRUCK**

### **I. GENERAL REQUIREMENTS**

#### **A. INTERPRETATIONS**

In order to be fair to all bidders, no oral interpretations will be given to any bidder as to the meaning of any of the Specifications or any part thereof. Every request for such a consideration shall be made in writing to the Township Administrator/Clerk. Based upon such inquiry, the Township may choose to issue an Addendum in Accordance with Local Public Contracts Law (N.J.S.A. 40A:11-23).

#### **B. GENERAL**

The Specifications state the Minimum Requirements of the Township. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The Township may consider as "Irregular" or "Non-Responsive" any bid not prepared and submitted in accordance with the bid documents and specifications, or any bid lacking sufficient technical literature to enable the Township to make a reasonable determination of compliance with the specification.

It shall be the bidder's responsibility to carefully examine each item of the specifications. Failure to offer a completed bid or failure to respond to each section of the Technical Specification will cause the proposal to be rejected without review as "Non-Responsive". All variances, exceptions and/or deviations shall be fully described in the appropriate section. Deceit, misrepresentation, or failure to disclose a fact or information necessary for the Township to make an informed judgment in responding to the specification will be cause for rejection.

The purpose of this document is to provide minimum specifications for the vehicle that meets the needs and desires of this agency. It establishes essential criteria for the design, performance, equipment, and appearance of the vehicle. All dimensions given are the approximate sizes required to meet the needs of this agency. The objective is to provide a vehicle that is in accordance with nationally recognized guidelines. All vendors and manufacturers must meet all state and local regulations regarding the manufacturing, licensing, and sale of vehicles within the state.

With the intent to standardize certain components, specific brands have been specified in certain places. This has been done to establish a particular standard of quality. Other brands will be accepted providing the vendor or manufacturer details how another brand will meet or exceed the quality of the actual brand specified.

II. **VEHICLE**

The supplier shall furnish and deliver one (1) Dump Truck, as hereinafter specified.

III. **DELIVERY LOCATION**

The items shall be delivered to the Wantage Township Department of Public Works, 888 Route 23 in Wantage, New Jersey, or such other site as directed by the Township Administrator.

IV. **GENERAL CONDITIONS OF BID**

- A. All bid prices shall be in both words and figures. Signature shall be in ink and in longhand. Proposals that are incomplete, conditional or obscure may be rejected as informal. In case of any discrepancy between the words and figures the written words shall be considered as being the bid price.
- B. No oral or telephonic proposals or modifications of proposals will be considered.
- C. Proposals shall be submitted in a sealed, opaque envelope marked with the name of the bidder and marked "**DUMP TRUCK**" with the name and address of the Bidder on the envelope.
- D. Bids shall be addressed to:  
Wantage Township Administrator/Clerk  
**TOWNSHIP OF WANTAGE**  
888 Route 23  
Wantage, New Jersey 07461
- E. All mailed bids shall be mailed using a formal mailing procedure such as Certified or Registered Mail, Return Receipt.
- F. Alternatively, bids may be hand delivered prior to the date and hour specified, to the Township Administrator/Clerk at the above address.
- G. Bids will be received no later than **10:00 a.m. on November 26, 2013** at which time all received bids will be publicly opened and read at the Municipal Building, 888 Route 23, Wantage, New Jersey.
- H. Bidder assumes responsibility for having the bid in the hands of the Administrator/Clerk on time whether the bid is mailed or hand delivered.
- I. Addenda, if any, issued before opening of bids, shall be taken into account and included in any proposal.

- J. No verbal answer will be given to any inquiries in regard to the meaning of the specifications, nor will any verbal instructions be given previous to the award of the bid. No verbal statement regarding the bid by any persons previous to the award of the bid will be authoritative. Any explanation desired by any bidder must be requested in writing. If a reply is made, it will be communicated to all bidders who have indicated their intention to bid. All inquiries regarding the above must be brought to the attention of the Township no later than ten (10) days prior to the opening of the bids.
- K. Any instructions concerning the item to be supplied will be given or issued by the Township Administrator/Clerk or an authorized representative of the governing body of the Township Of Wantage.
- L. If the bidder is not going to furnish the item exactly as described, all deviations must be indicated even though the deviation may exceed what is described in these specifications. For each deviation taken, the bidder must include a detailed technical description of what is to be furnished as well as an explanation of why the deviation equals or exceeds the item in the specifications.
- M. All bids must be completed on the enclosed forms. No other forms or specifications are to be used. By rejecting any bids not so submitted, Wantage Township will insure that all bidders are bidding on the same standard so a fair evaluation can take place.
- N. The price quoted shall be the price at the time of delivery to Wantage Township.
- O. All items furnished shall conform to the applicable specifications included in the bid documents.
- P. Within sixty (60) days of the bid opening, the Township Committee will award the contract to the lowest responsible bidder, or reject all bids received. If additional time is required beyond sixty days, Wantage Township must request permission to do so from the three apparent lowest responsible bidders for an additional period of time to be agreed upon by Wantage Township and the bidders.
- Q. Wantage Township will provide for the execution of contract within twenty-one (21) days of the award of contract.
- R. Wantage Township is exempt from any State Sales Tax or Federal Excise Tax.
- S. Payments will be made upon the approval of vouchers submitted by the successful bidder(s) in accordance with the requirements of Wantage Township and subject to the Township's customary procedures.
- T. General Bid Conditions must be met satisfactorily.

- U. Where applicable, items of foreign origin must be so indicated. Bidder's signature on the bid proposal shall be taken as certification that all manufactured articles, materials, and supplies not so indicated, have been made or produced in the United States.
- V. As required by P.L. 1977, c.33, a Public Disclosure Statement, as provided, must be completed and included with the bid.
- W. Bidder will faithfully execute and carry out all requirements of P.L. 1975, c.127. For those bidders whose firm employs less than fifty employees, an Affirmative Action Affidavit is to be employed.
- X. A certificate is required showing that the bidder owns, leases, or controls all necessary equipment required by these specifications.
- Y. As required by the New Jersey Prevailing Wage Act (P.L. 1963, c.150), and the provisions of State Labor Laws, prevailing wage and labor laws must be complied with by the successful bidder.
- Z. All bonding requirements must be strictly adhered to. This includes the bid surety and performance bond requirements in that section.
- AA. In the event a bidder is a partnership, the bidder must state the name and address of all partners, the partnership's business name and address, and must be signed by at least one of the partners with the signature witnessed.  
  
In the case of a corporate bidder, the bid must show the State of Incorporation, the principal office address, and must be signed by the President or Vice-President, attested by the secretary or by a duly authorized agent of the Corporation and proof of authority should be attached.  
  
In the event a bidder is a limited liability company, the bidder must state the name and address of all members, and the Manager or Members must sign the bid, as appropriate.
- BB. Every bidder shall submit documents listed in the checklist at the time and date specified in the public notice to prospective bidders. All the documents shall be submitted in accordance with the instructions. The division of the Bid Specifications into parts is merely for convenience and ready reference; all parts of the bid specifications constitute a single document. All bid form documents shall be submitted in the order in which they are included in this bid specification package.

**V. REJECTION OF BIDS**

The Township Committee reserves the right to reject any and all bids submitted. The Township Committee also reserves the right to waive any irregularities or immaterial variances from the specifications and bid documents, if in its judgment, the interests of the municipality will be best served.

The Township retains the right to reject any and all bids if an error within these bid specifications is found prior to or after the bid date. The Township additionally retains the right to reject any and all bids if any or all parts of the specifications are not complied with, regardless of total bid price. Final decision of whether or not a bid complies with these specifications is solely the judgment of the Township. Each bidder agrees to accept the decision of the Township as final without recourse or prejudice.

Each bid submitted must contain a non-collusion statement, signed by an authorized officer of the corporation, partner or general partner (if a partnership), manager of a limited liability company, including a raised seal if bidder possesses one, or individual. All non-compliance or deviations from the specifications shall be listed on the form provided.

**VI. DUPLICATE BIDS**

In the event that the bidder represents more than one manufacturer meeting the manufacturer requirements outline herein, then the bidder shall only bid the highest quality vehicle that the bidder represents. Under no circumstances will multiple bids from the same bidder on different manufacturers be accepted. Should a bidder submit two or more bids representing more than one manufacturer, then ALL bids submitted by that bidder will be rejected as being non-compliant with the requirements of this specification. The Township is seeking quality equipment. Bidders are asked to bid ONLY the product of the highest level of quality represented by that bidder.

**VII. AWARD OF CONTRACT –**

1. Competency and responsibility of bidder will be considered in making the award. Wantage Township reserves the right to reject any or all bids and to waive technicalities or informalities in its best interest. Proposals may be rejected if they show any omissions, alterations of form, additions or deductions not called for, conditional or uninvited alternate bids, or irregularities of any kind. Proposals in which the prices are unbalanced may be rejected. Claims on account of mistakes or omissions in bids will not be considered, except as specifically permitted by law.
  
2. Before awarding a contract, the Township may require apparent low bidder to qualify as a responsible bidder by furnishing:
  - (a) A financial statement showing assets and liabilities of bidder current to a date within thirty (30) days of the bid opening.
  
  - (b) A list of not less than five (5) governmental entities to which bidder has sold vehicle(s) within the last five years.

- (c) The number of regular employees of the organization and length of time the organization has been in business under the present name.

Should the Township determine the apparent low bidder is not the lowest responsible bidder, the apparent low bidder will be notified and the bid security returned without prejudice.

#### VIII. **INDEMNIFICATION AND INDEPENDENT CONTRACTOR**

- A. Contractor shall indemnify and hold harmless Wantage Township from and against all claims, damages, losses and expenses, including all reasonable expenses incurred by Wantage Township based on any claims that may result or arise directly or indirectly, from or by reason of the performance of the contract or from any act or omission by the contractor, its agents, servants, employees or subcontractors and that results in any loss of life or property or in any injury damaged persons or property. Its indemnification shall include any alleged violations of patented copyright or trademark laws. This indemnification shall be construed as broadly as possible in the favor of Wantage Township.
- B. The bidder acknowledges that it is an independent contractor and as such will be responsible for all damage, loss or injury to persons or property that may arise or be incurred during the conduct of the work, in the furnishing of this vehicle.

#### IX. **DEMONSTRATION**

The Township may require bidder to provide a demonstration of the item it is proposing to supply to the Township.

#### X. **BONDING**

Surety in the form of a bid bond, certified check, or cashier's check in the amount of ten percent (10%) of the total bid, but not in excess of \$20,000, is required. This is a material provision of the contract and failure to include a bid bond, certified check, or cashier check as bid surety shall be cause for rejection of the bid.

All bid security, except the security of the three apparent lowest responsible bidders, shall be returned within ten (10) days of the opening of bids. Within three (3) days after signing the contract, the bid security of the remaining unsuccessful bidders shall be returned to them.

The successful bidder shall furnish 100% performance surety for the contract. The bidder must submit a Consent of Surety stating that Surety Company will provide the bidder with the performance and payment bond if the bid proposal is accepted. A performance bond by a salesman or agents of the bidder is not acceptable.

**Failure to submit this Consent of Surety with the bid proposal shall cause the bid proposal to be rejected.**

The surety company must be authorized to transact business in the State of New Jersey and must be satisfactory to the Township of Wantage.

The certificate (CONSENT OF SURETY) must be drawn to the Township of Wantage in an amount equal to 100% of the proposal amount.

The certificate (CONSENT OF SURETY) shall be obtained for a bond -

- A. For the faithful performance of all provisions of the specifications or for all matters which may be contained in the notice to bidders and/or the bid specifications, relating to the performance of the contract or agreement, and
- B. For a guarantee bond for the faithful performance of the contract provisions relating to the repair and maintenance of any work, project or facility and its appurtenances and keeping the same in good serviceable condition during the term of the bond as provided for in the notice to bidders or in the specifications, and/or
- C. In such other form as may be provided in the notice to bidders or in the specifications
- D. Forfeiture: If the Township notifies a bidder that it accepts his proposal and the bidder fails to sign the contract or comply with any of the terms of the bid specifications and bidder's proposal, the Township reserves the right to award the contract to the next lowest responsible bidder or re-advertise for bids. The defaulting bidder shall pay to the Township the difference between the amount of his bid and any higher amount for which the Township may contract for the required work plus any re-advertising costs incurred, consultants' fees, legal fees or other expenses occurred by reason of the default. The bid security of the defaulting bidder shall be applied on the account of the damages. If the amount of the difference between the defaulting bidder's bid and the actual bid awarded, plus expenses exceeds the amount of the bid security to recovery, the defaulting bidder shall pay the Township the full amount of the excess.

The certificate (CONSENT OF SURETY) shall be in essentially the same form as provided for in the bid form documents.

#### PRODUCT LIABILITY

Additionally, bidders are required to submit with their bids a Certificate of Liability Insurance in the amount of twenty million (\$20,000,00.00) dollars in aggregate, as issued by the bidders insurance company.

**XI. DELIVERY**

The successful bidder must specify the delivery date for the item. Failure to deliver the item within the delivery period contained in the contract shall result in the bidder being assessed a nondelivery charge in the amount of \$150 per day for each day after the delivery date. Bidder acknowledges that this sum represents reasonable approximation of the damage Wantage would incur as a result of a breach by bidder's failure to provide the item on the scheduled delivery date. If Delivery delays are due to component supply problems or chassis delivery problems to the manufacturer, the nondelivery charge shall not be assessed. Delivery must be within a maximum of 120 DAYS from the date of the award of the bid.

**XII. PAYMENT**

Wantage agrees to pay bidder within thirty (30) days after satisfactory delivery of the item. Payment to be made in accordance with Wantage's requirement for submission of invoices and vouchers and approval by authorized officials. Acceptance of the final payment by the bidder shall be understood to be a release in full of all claims against Wantage for payment under this contract.

The bid price shall be on a F.O.B. destination and acceptance basis at the Purchaser's specified location. The Price shall be complete and include warranty. Payment shall be made in accordance with these specifications and the Bid Proposal submitted by the Bidder. Payment shall be made upon acceptance of the vehicle(s) and equipment specified under these specifications. The bid price and conditions must be specified on the bid proposal form. Bid price shall be valid for at least thirty [30] days from the date of the bid opening or as otherwise specified on the bid proposal form. Full payment shall be made when the unit is received, inspected, and found to comply with the specifications.

**XIII. USE OF BRAND NAMES IN THESE SPECIFICATIONS**

Whenever in these specifications a brand or manufacturer's name is utilized, same is included for descriptive purposes only, and products equivalent to that provided by the individual brand or manufacturer's name may be substituted provided that documentation satisfactory to the Township is furnished establishing such equivalency. This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality and performance against which all bids will be compared.

Bids will be accepted for consideration on any make or model that is equal or superior to the brand(s) specified. Decisions of equivalency will be at the sole interpretation of the Township of Wantage.

**XIV. WARRANTY**

The successful Bidder shall provide a warranty as described in the Specifications.

**BID FORM  
TOWNSHIP OF WANTAGE**

Township of Wantage  
888 Route 23  
Wantage, New Jersey 07461

Bid of: \_\_\_\_\_

Address: \_\_\_\_\_

We hereby certify that we are the only person or persons interested in this bid that is made without collusion with any person, firm or corporation making another bid for the same contract, that the bid is in all respects fair and that no officer or member of the Township of Wantage, or any person in the employ of the members is directly or indirectly interested in this bid or in the supplies or work to which it relates, or in the profits of any portion thereof. We further declare that we have carefully examined the information for Bidders, Specifications, and bid documents and propose to furnish and deliver the item specified and in the manner and time prescribed. The item shall be furnished at the following price:

It is further proposed to execute the Form of Contract within twenty one (21) days after receiving notice from the Township, to guarantee all the materials furnished under this contract, and to replace any materials which may be rejected as defective. Accompanying this proposal is a certified check, Money Order, or Bid Bond, made payable to the Township of Wantage in the sum of \$\_\_\_\_\_ (not less than ten percent (10%) of the amount of bid but not in excess of \$20,000) which the undersigned agrees) to be forfeited as liquidated damages and not as penalty if the contract is awarded to the undersigned and the undersigned fail(s) to execute the contract within the stipulated time, otherwise the check, money order, or bid bond will be returned to the undersigned.

The Undersigned is:  
(circle one)

- Individual
- Partnership
- Corporation
- Limited Liability Company

Under the Laws of the State of \_\_\_\_\_

Having its principal office at \_\_\_\_\_

If a Partnership, Corporation or Limited Liability Company, give the names of all partners, shareholders or limited liability company members, as appropriate, with the address of each:

_____	_____
_____	_____
_____	_____

**THE BID SUBMISSION IS SEVERABLE. BIDDERS MAY CHOOSE TO SUBMIT A BID FOR DELIVERY OF BID SPECIFICATION A, OR SEPARATELY FOR DELIVERY OF BID SPECIFICATION B, OR THE BIDDER**

**MAY CHOOSE TO SUBMIT A BID ON BOTH BID SPECIFICATIONS A AND B. Choose One Box Below:**

- This Bid is submitted for Bid Specification A
- This Bid is submitted for Bid Specification B
- This Bid is Submitted for Both Bid Specification A and Bid Specification B

**BID SPECIFICATION A**

**If No bid is submitted for Bid Specification A, check this Box**

**BASE BID:** Price For Delivery as per specifications:

Amount in Words: \_\_\_\_\_

Amount in Figures: \$ \_\_\_\_\_ Delivery Date: \_\_\_\_\_ Days from Notice to Proceed



**BID SPECIFICATION B**

**If No bid is submitted for Bid Specification B, check this Box**

**BASE BID:** Price For Delivery as per specifications:

Amount in Words: \_\_\_\_\_

Amount in Figures: \$ \_\_\_\_\_ Delivery Date: \_\_\_\_\_ Days from Notice to Proceed

Make / Model for Dump Body: \_\_\_\_\_

Make / Model for Under-Tailgate Spreader: \_\_\_\_\_

I hereby certify that all mathematical calculations have been reviewed by me and they are accurate and I am duly authorized to sign this bid on behalf of bidder.

\_\_\_\_\_  
(Bidder)

(SEAL)

By: \_\_\_\_\_  
(signature of individual, partner, LLC Manager or corporate officer)

Title: \_\_\_\_\_

Date: \_\_\_\_\_ Telephone: \_\_\_\_\_

**BIDDER'S ACKNOWLEDGMENT OF RECEIPT OF NOTICES, REVISIONS OR ADDENDA TO THE ADVERTISEMENT OR BID DOCUMENTS**

The undersigned bidder acknowledges receipt of the following Notices, Revisions or Addenda to the Advertisement or Bid Documents:

Notice, Revisions or Addenda No.

Date of Notice, Revisions or Addenda

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If this form does not apply, check this box and initial this form. \_\_\_\_\_

Failure of the bidder to acknowledge the bidder's receipt of any notice or revisions or addenda to the advertisement or bid documents, in this document shall be deemed a fatal defect that shall render the bid proposal unresponsive and cannot be cured.

\_\_\_\_\_  
Name of Bidder

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name & Title

Dated: \_\_\_\_\_, 2013

**DISCLOSURE STATEMENT**

The undersigned is: \_\_\_\_\_ An Individual  
\_\_\_\_\_ A Partnership  
\_\_\_\_\_ A Corporation  
\_\_\_\_\_ A Limited Liability Company

Under the laws of the State of: \_\_\_\_\_

Having its principal office at: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature of Individual, Partner  
or Officer Signing the Proposal.)

Title: \_\_\_\_\_

(Affix Seal Here)  
(Required if bidder is a Corporation)

If a Partnership or a Corporation, give the names of the partners, or all officers of the Corporation with the address of each, as appropriate. Additionally, if the organization is a Limited Liability Company, give the names of the members of the L.L.C. and their addresses:

<u>NAME</u>	<u>ADDRESS</u>
_____	_____
_____	_____
_____	_____
_____	_____

**STATEMENT OF COMPLIANCE**

The following information must be supplied, and the statements notarized and witnessed, by a Notary Public, licensed in the State of New Jersey.

1. The specifications, as presented herein, have been strictly adhered to. All alternates to these specifications are listed on a separate page in the proposal, with reference to the page and section title for which the exception is taken. If exceptions are taken, and alternates or equivalents not listed, we understand that it will be grounds for not accepting the bid.

2. All information, as required, has been included in the proposal. "I (we) do solemnly swear that the enclosed information is correct and true to the best of my (our) knowledge. I (We) also do swear that no information has been omitted from this proposal in order to present the proposal in a more favorable position."

"I (We) also do swear that all alternates and clarifications to the specifications have been listed in my (our) proposal".

BIDDER: \_\_\_\_\_  
\_\_\_\_\_

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

Notary Seal

\_\_\_\_\_ Notary Public  
\_\_\_\_\_

**CERTIFICATION**

I/we hereby certify that I/we have read the General Specification and have become familiar with all the contents thereof, and that the bid of:

\_\_\_\_\_ (Bidder's Name)

attached hereto, is submitted in strict accordance with said conditions, instructions and specifications, being aware that said instructions are binding and become a part of this bid.

\_\_\_\_\_  
Name of Bidder

By: \_\_\_\_\_  
Signature of Authorized Agent

Dated: \_\_\_\_\_

**STATEMENT OF OWNERSHIP**

Bidder shall state the names and addresses of all person's owning ten percent (10%) or greater interest therein in the proposal, in compliance with P.L. 1977, Chapter 33, effective March 8, 1977, are as follows:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

\_\_\_\_\_  
**BIDDER**

**EXCEPTIONS TO SPECIFICATIONS**

Any exceptions to the specifications provided shall be stated below:

Page Number \_\_\_\_\_

Exception \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Page Number \_\_\_\_\_

Exception \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Page Number \_\_\_\_\_

Exception \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Page Number \_\_\_\_\_

Exception \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Attach additional sheets if necessary.

**NON-COLLUSION AFFIDAVIT**

STATE OF NEW JERSEY )

ss.:

COUNTY OF SUSSEX )

I, \_\_\_\_\_, of \_\_\_\_\_ in the County of \_\_\_\_\_, and the State of \_\_\_\_\_, of full age, being duly sworn according to law on my oath, depose and say that:

I am \_\_\_\_\_ of the firm of \_\_\_\_\_ the bidder making the Proposal for the above named project, and that I executed the Proposal with full authority so to do; the bidder has not, directly or indirectly, entered into any agreements, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above named project; and that all statements contained in the Proposal and in the affidavit are true and correct, all made with full knowledge that the Township of Wantage relies upon the truth of the statements contained in the Proposal and in the statements contained in this affidavit in awarding the contract for the project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by:

\_\_\_\_\_  
(Name of Contractor) (Title)

\_\_\_\_\_  
(Affidavit Signature) (Type or print name of affiant)

Subscribed and sworn to  
before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 2013.

(AFFIX SEAL HERE) Signature of Notary: \_\_\_\_\_

Notary Public of \_\_\_\_\_

My Commission Expires on \_\_\_\_\_

**BID GUARANTEE STATEMENT**

**DUMP TRUCK**

A guarantee is accompanying this bid in the amount of \_\_\_\_\_ and is one of the following options:

- 1. Certified Check
- 2. Cashier's Check
- 3. Bid Bond

from a reputable Insurance Company which the undersigned agrees is to be forfeited as liquidated damages and not as a penalty, if the contract is awarded to the undersigned, and the undersigned shall fail to execute the contract for the project or furnish the performance bond required within the stipulated time, otherwise the guaranty will be returned to the undersigned.

The undersigned is:

- 1. an individual
  - 2. a partnership
  - 3. a corporation
  - 4. a limited liability company;
- (circle one)**

under the laws of the State of \_\_\_\_\_ having principal offices at:

(authorized signature)

(type or print name)

Position:

Company:

Address:

Dated: \_\_\_\_\_, 2013

\*\*\*\*\*  
**NOTE: ATTACH BID BOND OR CHECK HERE**  
 \*\*\*\*\*

**NO BID RESPONSE FORM**

Project Name: **DUMP TRUCK**

Bid Opening Date: \_\_\_\_\_

We are not submitting a bid for the following reason(s):

- Cannot comply with specifications
- Unable to meet delivery
- Cannot comply with terms/conditions: (Please state which ones.)
- Do not sell/manufacture type of items involved
- Not interested at this time
- Other (Please specify)

Please make any changes, if necessary:

\_\_\_\_\_ (Company Name)

\_\_\_\_\_ (Address)

\_\_\_\_\_ (Contact Person)

\_\_\_\_\_ (Telephone Number)

\_\_\_\_\_ (Fax Number)

PLEASE RETURN TO:

Township Administrator/Clerk  
**TOWNSHIP OF WANTAGE**  
Municipal Building  
888 Route 23  
Wantage, New Jersey 07461

## **AFFIRMATIVE ACTION INSTRUCTIONS**

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. The contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. The contractor or subcontractor, where applicable, will send to each labor union or representative or workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with the regulations promulgated by the Treasurer pursuant to P.L. 1975, c. 127, as amended and supplemented from time to time and the Americans with Disabilities Act. The contractor or subcontractor agrees to attempt in good faith to employ minority and female workers consistent with the applicable county employment goals prescribed by N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, c. 127, as amended and supplemented from time to time or in accordance with a binding determination of the applicable county employment goals determined by the Affirmative Action Office pursuant to N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, c.127, as amended and supplemented from time to time.

The contractor or subcontractor agrees to inform in writing appropriate recruitment agencies in the area, including employment agencies, placement bureaus, colleges, universities, labor unions, that it does not discriminate on the basis of age, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices. The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions. The contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and conform with applicable employment goals, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions. The contractor and its subcontractors shall furnish such reports or other documents to the Affirmative Action office as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Affirmative Action Office for conducting a compliance investigation pursuant to subchapter 10 of the Administrative Code (N.J.A.C. 17:27).

All bidders and all contractors who are negotiating for a contract as a precondition to entering into a valid and binding procurement or service contract with the public agency, are required to submit to the public agency, prior to Or at the time the contract is submitted for signing by the public agency (in accordance with N.J.A.C. 17:27-4.3 promulgated by the Treasurer pursuant to P.L. 1975. c. 127), one of the following three documents:

- A. Appropriate evidence that the contractor is operating under an existing federally approved or sanctioned affirmative action program: or
- B. A certificate of employee information report approval issued in accordance with N.J.A.C 17:27-4:
- C. An initial employee information report consisting of forms provided by the affirmative action office and completed by the contractor in accordance with N.J.A.C. 17:27-4.

**AFFIRMATIVE ACTION QUESTIONNAIRE**

Kindly complete questionnaire in the event that you or your firm is awarded this contract. The necessary forms will be sent by the Township prior to award. This form should be submitted with your bid.

Our company has a Federal or State of New Jersey Affirmative Action Plan approval.

- ( ) YES
- ( ) NO

- A. If yes, attach a photostatic copy of the approval to this page. Acceptable approvals are a current letter (not more than one (1) year from date) from the United States Department of Labor or a State of New Jersey Certificate of Employee Information Report.
- B. If no, and you become successful bidder, an Affirmative Action Employee Information Report will be provided and must be submitted within seven (7) days after receipt of the notification of intent to award the contract.

I certify that the above information is correct to the best of my knowledge.

SIGNATURE \_\_\_\_\_

NAME \_\_\_\_\_ TITLE \_\_\_\_\_

BUSINESS NAME \_\_\_\_\_

DATE \_\_\_\_\_, 2013

Telephone Number \_\_\_\_\_ -

\*\*\*\*\*  
NOTE: ATTACH COPY OF FORM HERE  
\*\*\*\*\*

**AFFIRMATIVE ACTION AFFIDAVIT**

STATE OF NEW JERSEY}

COUNTY OF \_\_\_\_\_ } s.s.:

**DUMP TRUCK**

I, \_\_\_\_\_, of the Town/City of \_\_\_\_\_ in the State of \_\_\_\_\_ being of full age and duly sworn according to law, on my oath depose and say that:

I am employed by the firm of \_\_\_\_\_, the bidder submitting the Bid Proposal for the above named project, in the capacity of \_\_\_\_\_ (title), and I have executed the Bid Proposal with full authority to do so. Further, the bidder will comply with the provisions of Public Law 1975, Chapter 127, and shall require all subcontractors to comply with the provisions of Public Law 1975, Chapter 127.

\_\_\_\_\_  
**Name of Firm or Individual**

\_\_\_\_\_  
**Title**

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2013.

Seal

\_\_\_\_\_  
Notary Public of New Jersey.

## REQUIREMENT FOR CONSENT OF SURETY

The Contractor bidding this single overall contract shall furnish to Township of Wantage Certificates of Surety for a Performance Bond for an amount equal to 100% of the Bid price, and for a Payment Bond for an amount equal to 100% of the Bid price. Certificates of Surety may be supplied by the Bidder on behalf of himself and any or all subcontractors, or by each respective subcontractor, or by any combination thereof which results in evidence of performance security equaling the required amounts. Certificates of Surety and Bonds shall be on the forms included in the Contract Documents.

## CONSENT OF SURETY

WHEREAS the Contractor named below has requested that the undersigned Surety Company provide the bonds required by this Contract of Wantage Township, Sussex County, New Jersey, for **DUMP TRUCK**.

WHEREAS the undersigned Surety Company desires to provide a statement as required by the New Jersey Local Public Contracts Law, N.J.S.A. 40A:11-22, that it will provide the bonds in the forms and amounts required;

NOW THEREFORE, in consideration of the premises and One Dollar (\$1.00), lawful money of the United States to it in hand paid by the Contractor, the receipt whereof is hereby acknowledged, the undersigned Surety Company hereby certifies and agrees that this Contract of Wantage Township, Sussex County, New Jersey, for **DUMP TRUCK**, be awarded to the Contractor named below;

It will become bound as surety and guarantor, in a penal sum equal to 100% of the Contractor's accepted bid for this Contract, for the faithful performance of the Contract according to its terms and conditions. It will become bound as surety and guarantor, in a penal sum equal to 100% of the Contractor's accepted bid for his Contract, for the payment of all lawful claims of subcontractors, materialmen, laborers, persons, firms or corporations for labor performed or materials, provisions, provender or other supplies or teams, fuels, oils, implements or machinery furnished, used or consumed in the carrying forward, performing or completing of the Contract, such guarantee to remain in effect through the end of the period within which such claims must be asserted under the New Jersey Municipal Mechanics' Lien Law; and

It will become bound as surety and guarantor, in a penal sum equal to 100% of the Contract Price for this Contract, for the faithful performance of the work required under the Article of the General Conditions entitled "Guarantee" the bond to remain in effect through the end of the Maintenance Period; and

The undersigned surety agrees to execute the bonds as surety and will deliver them to the Township under the Contract as obligee, upon the demand of the Township.

Name and Address of Principal (Contractor):

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**BID AMOUNT**

**Amount in Figures**

Amount in Words \_\_\_\_\_ \$ \_\_\_\_\_

IN WITNESS WHEREOF the Surety Company has caused these presents to be signed and attested by its duly authorized representatives and its corporate seal to be hereto affixed this \_\_\_\_ day of \_\_\_\_\_, 2013.

Attest:

Surety Company

\_\_\_\_\_ By: \_\_\_\_\_

**Note: A corporate acknowledgement of the Surety Company and evidence of the authority of the signer is to be attached hereto by the Surety Company.**

**TOWNSHIP OF WANTAGE, NEW JERSEY**

**CONTRACT FORMS**

Applicable form must be signed and returned with bid.

**CERTIFICATION OF CONTRACT - CORPORATION**

The signature of the corporation attests that the bidder is aware of all specifications, terms and conditions listed in this solicitation and that this bid proposal is an offer of contract.

The signature of the agent of the Township of Wantage completes the acceptance of the bid proposal and offer of contract submitted by the bidder to the Township of Wantage and is the contract that takes effect on the date of the below signature.

\_\_\_\_\_  
(name of corporation)

Dated: \_\_\_\_\_  
(signature)

\_\_\_\_\_  
(type or print name and title)

Signed and sealed  
in the presence of:

\_\_\_\_\_  
(address)

\_\_\_\_\_  
(name)

\_\_\_\_\_  
(city/state) (zip code)

(\_\_\_\_\_) \_\_\_\_\_  
(telephone)

\*\*\*\*\*

The above offer is hereby accepted this \_\_\_\_\_ day of \_\_\_\_\_, 2013.

**TOWNSHIP OF WANTAGE**

ATTEST:

\_\_\_\_\_ By: \_\_\_\_\_

**CERTIFICATION OF CONTRACT - PARTNERSHIP**

The signature of the partnership attests that the bidder is aware of all specifications, terms and conditions listed in this solicitation and that this bid proposal is an offer of contract.

The signature of the agent of the Township of Wantage completes the acceptance of the bid proposal and offer of contract submitted by the bidder to the Township Committee and is the contract that takes effect on the date of the below signature.

\_\_\_\_\_  
(name of partnership)

Dated: \_\_\_\_\_  
(signature)

\_\_\_\_\_  
(type or print name)

Signed and sealed  
in the presence of:

\_\_\_\_\_  
(address)

\_\_\_\_\_  
(name)

\_\_\_\_\_  
(city/state)

\_\_\_\_\_  
(zip code)

( )  
\_\_\_\_\_  
(telephone)

\*\*\*\*\*

The above offer is hereby accepted this \_\_\_\_ day of \_\_\_\_\_, 2013.

**TOWNSHIP OF WANTAGE**

ATTEST:

\_\_\_\_\_ By: \_\_\_\_\_

**CERTIFICATION OF CONTRACT - INDIVIDUAL**

The below signature of the individual attests that the bidder is aware of all specifications, terms and conditions listed in this solicitation and that this bid proposal is an offer of contract.

The signature of the agent of the Township of Wantage completes the acceptance of the bid proposal and offer of contract submitted by the bidder to the Township Committee and is the contract that takes effect on the date of the below signature.

\_\_\_\_\_  
(name of Individual)

Dated: \_\_\_\_\_  
(signature)

\_\_\_\_\_  
(type or print name)

Signed and sealed  
in the presence of:

\_\_\_\_\_  
(address)

\_\_\_\_\_  
(name)

\_\_\_\_\_  
(city/state)

\_\_\_\_\_  
(zip code)

( )  
\_\_\_\_\_  
(telephone)

\*\*\*\*\*

The above offer is hereby accepted this \_\_\_\_ day of \_\_\_\_\_, 2013.

**TOWNSHIP OF WANTAGE**

ATTEST:

\_\_\_\_\_ By: \_\_\_\_\_

**CERTIFICATION OF CONTRACT - LIMITED LIABILITY COMPANY**

The signature of the limited liability company attests that the bidder is aware of all specifications, terms and conditions listed in this solicitation and that this bid proposal is an offer of contract.

The signature of the limited liability company acknowledges the person signing is duly authorized to sign and the bid is a true offer of the bidder and all declarations and statements contained in the bid are true to the best of his knowledge and belief.

The signature of the agent of Wantage Township completes the acceptance of the bid proposal and offer of contract submitted by the bidder to Wantage Township Committee and is the contract that takes effect on the date of the below signature.

\_\_\_\_\_  
(name of limited liability corporation)

Dated: \_\_\_\_\_  
(signature)

\_\_\_\_\_  
(type or print name)

Signed and sealed  
in the presence of:

\_\_\_\_\_  
(address)

\_\_\_\_\_  
(name) (city/state) (zip code)

( )  
\_\_\_\_\_  
(telephone)

\*\*\*\*\*

The above offer is hereby accepted this \_\_\_\_ day of \_\_\_\_\_, 2013.

**TOWNSHIP OF WANTAGE**

ATTEST:

\_\_\_\_\_ By: \_\_\_\_\_

**REFERENCES**

**DUMP TRUCK**

	<u>Name of Owner</u>	<u>Date of Delivery</u>	<u>Contact Name/Phone Number</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

**FINANCIAL RESPONSIBILITY FORM**

QUALIFICATION Questionnaire (Services)

Financial:

Individual  
 Corporation

Partnership  
 Limited Liability Company

Location of Main Office:

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Name of Bank: (with account numbers)

---

Financial Condition as of Date:

---

Brief Statement of your financial condition:

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Experience:

Length of Time in Business: \_\_\_\_\_ years

Number of Employees: \_\_\_\_\_

I am ( ) am not ( ) on the New Jersey Debarred vendor list.

Minority ( ) Small Business ( ) Women Owned ( )

**BIDDER QUALIFICATION STATEMENT**

Name: \_\_\_\_\_

Address \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Hours of Operation: \_\_\_\_\_

\_\_\_\_\_  
Signature

Dated: \_\_\_\_\_

**CERTIFICATION OF BIDDER'S STATUS ON  
THE STATE TREASURER'S LIST OF  
DEBARRED, SUSPENDED AND DISQUALIFIED BIDDERS**

**DUMP TRUCK**

STATE OF NEW JERSEY

COUNTY OF \_\_\_\_\_

I, \_\_\_\_\_, of the \_\_\_\_\_ of  
\_\_\_\_\_, in the State of \_\_\_\_\_, of full age, being duly  
sworn according to law on my oath depose and say that:

I am \_\_\_\_\_ of the firm of \_\_\_\_\_, the bidder  
making the proposal for the above named project, that I executed the Proposal, this  
affidavit and all other bidding documents with full authority to do so, and that the  
bidder is not now at the time of submission of this bid included on the State of New  
Jersey Treasurer's List of Debarred, Suspended and Disqualified Bidders.

By: \_\_\_\_\_ Date:  
Deponent's Name

Deponent's Title

Subscribed and sworn to \_\_\_\_\_ before  
me this \_\_\_\_\_ day of \_\_\_\_\_, 2013.

\_\_\_\_\_  
Notary Public of New Jersey



payments of proper charges for the work required in accordance with the contract documents and will indemnify and save harmless Wantage, its officers, agents, or servants, and each and every one of them, against and from all suits and costs of every name and description, including royalties, fees or claims for the use of patented methods, of patented rights, or copyrights and from all damages to which Wantage or any of its officers, servants, or agents may be put by reason of injury to person or property of others, resulting from carelessness in the performance of its work or through the negligence of the Contractor or through any act or omission on the part of the Contractor, its agents or agent. This indemnification shall be construed as broadly as possible in favor of Wantage.

Contractor acknowledges that it is an Independent Contractor and is responsible for all damage, loss or injury to personal property that may arise or be incurred during the conduct of the work.

**Article VI: Assignment or Subletting:** Contractor covenants and agrees not to assign or sublet the work specified or covered under the terms of this Contract without the prior written approval of Wantage.

**Article VII: Affirmative Action Requirements:** The parties to this Contract agree that the provisions of N.J.S.A. 10:2-1 et seq., dealing with discrimination in employment on public contracts and the rules and regulations promulgated in accordance with those statutes are binding on the parties and are made a part of this contract as if set forth herein at length. The contractor agrees to comply with all Federal affirmative action requirements, including but not limited to Executive Order 11246 of September 24, 1965, and all rules, regulations and relevant orders of the Secretary of State.

**Article VIII: Performance and Payment Bond:** Contractor upon signing this Contract shall execute a 100% performance and payment bond to Wantage. The bond shall be executed by a responsible bonding company in good financial standing and authorized to do business in the State of New Jersey and must be posted and presented to Wantage upon signing this Contract. Failure of Contractor to provide the performance and payment bond upon signing this Contract shall constitute a breach of contract. Contractor will be responsible for all damages incurred by Wantage, if it defaults. Wantage's recourse is not limited solely to seeking payment under the bid bond.

**Article IX: Breach of Contract:** Contractor's failure to perform under this Contract, including, but not limited to failing to sign the Contract within twenty-one (21) days after the award of the Contract, or failure to perform in conformity with this Contract or otherwise, shall constitute breach of this Contract and shall result in Contractor being responsible for all damages incurred by Wantage. Contractor shall also be responsible for all reasonable attorneys fees and costs incurred by Wantage in enforcing the terms of this Contract.

**Article X: Warranties:** Contractor shall provide all warranties covering the **DUMP TRUCK** supplied by the contractor. Contractor shall obtain directly from any component contractors all warranties, which shall run directly and be in favor of Wantage. The warranties shall be provided at or before delivery of the **DUMP TRUCK**. The warranty period shall be for a minimum of one year from the date of delivery.

**Article XI: Buy American:** Wantage specifically directs the Contractor's attention to N.J.S.A. 40A:13. This statute requires the Contractor to use components and parts manufactured in the United States; where available.

**Article XII: Binding Nature of Agreement:** This Contract shall be binding upon Wantage, its successors and assigns, and upon the Contractor, its successors and assigns or heirs, executors, administrators and assigns.

**Article XIII: Legal Compliance:** During the performance of this Contract, Contractor shall act and conform with all Municipal ordinances, state and federal rules, regulations, statutes and directives, including, but not limited to any and all rules, regulations and statutes referred in the bid specifications.

**Article XIV: Disputes:** The parties agree that in the event of a dispute, any legal action instituted in this matter shall be in the Superior Court of New Jersey, Sussex County. The Contractor agrees and does hereby submit itself to the jurisdiction of the Court. This Contract is a New Jersey Contract and shall be construed and interpreted in accordance with the laws of the State of New Jersey.

**IN WITNESS WHEREOF,** Wantage has caused this instrument to be signed by William Gaechter, Mayor; Attested by James Doherty, Administrator/Clerk; and an authorized officer of the Contractor has signed this contract and agrees to all its terms and conditions.

**ATTEST:**

**WANTAGE TOWNSHIP**

\_\_\_\_\_  
Doherty, Administrator/Clerk

\_\_\_\_\_  
James  
Ronald Bassani, Mayor

Dated: \_\_\_\_\_, 2013

**ATTEST:**

**(COMPANY NAME)**

\_\_\_\_\_  
Dated: \_\_\_\_\_, 2013

# BID SPECIFICATION A

VEHICLE APPLICATION CLASS, NORMAL HIGHWAY - Unlimited operation on concrete or asphalt with a maximum 3% grade; limited operation on maintained gravel packed dirt with a maximum 3% grade; and limited operation on concrete or asphalt with a maximum 8% grade.

Vehicle Type: Straight Truck without Trailer  
Vehicle Use And Body/Trailer Type: Snow Plow.....Inner City  
Brake - Stopping Distance, Brake Regulation, Stopping Distance 310 Ft  
Product Type - Cml42r Truck  
Product Class 28

## **BVS**

Chassis (Base Model), GU702 4-Wheel Truck  
Chassis Packaging Solutions, Package Includes: HHS Emission, B Box RH side Under Cab. Air Tank(s) Under B Box – remaining on rail REQUIRES: LH Fuel Tank Round or D-Shaped (Not Sleeved), Omit or Isolate RH Tank

## **ENGINE/TRANSMISSION/CLUTCH**

Engine: Mack MP7-365m 365 HP @1500-1900 Rpm (Peak) 1340 Lb. Ft. Max Torque @ 1100-1300 Rpm  
Transmission, 10 Speed Manual (Overdrive), Fuller Rto-16908II (14.56/0.74)  
Clutch, Manual Adjusting, Cl39dci3 Eaton Advantage EZ-Pedal, 9-Spring, 2-Plate, 15.5" Ceramic Clutch, 6 Paddles, Manual Adj

## **EXHAUST/EMISSIONS**

DPF, CLEARTECH HHS DPF RH Side Under Cab W/Scr Frame Mtd RH Side  
Exhaust After-Treatment System Diesel Partic Filter Ceramic  
Passive Regen  
DPF Smart Switch, No Inhibit DPF Regeneration Switch  
Exhaust - Single Stanchion Or Single Cab Mtd, Single (RIS) Vertical Straight Exhaust Stack Turned Out  
Single, Bright Finish Heat Shield, Stack and Scr Cover  
Furnish Steel Painted Heat Shield for Frame Mtd Mack Cap DPF

## **ENGINE EQUIPMENT**

Air Compressor, Meritor/WABCO 316 18.7 CFM  
Air Governor  
Inside/Outside Air Intake Win-Cab Control for Snowplows  
Alternator, Delco 12v 130a (24si) Brush-Type  
Batteries, (3) Mack 12v 1000/3000 CCA Threaded Stud  
Bug Screen, Radiator Mounted  
To -34 Degrees F  
Mack Coolant Conditioner

## **ENGINE BRAKE, MACK POWERLEASH**

Engine Block Heater, 120v 1500 Watt Engine Block Heater  
Fan Drive, Borg Warner Cool Logic Fan Drive (HDMS) Electronically Controlled Variable  
Flywheel Housing, Lightweight, Aluminum  
Fuel-Water Separator, Mack W/Manual Drain Valve (Integral W/Primary Fuel Filter)  
Rand Primer Pump  
Hoses - Radiator/Heater, Silicone  
Corrosion Resistant Oil Pan  
Oil Pan Heater. 120v, 1500w Block Heater W/150w, Oil Pan Heater Wired To Same Receptacle  
Radiator, Aluminum Core  
Starter, 12 Volt Delco 39mt-Mxt

# BID SPECIFICATION A

## **TRANSMISSION EQUIPMENT/DRIVELINES**

Air Operated Clutch Assist  
Clutch Pedal, Open Grated Type  
Clutch Release Lube Hose  
Transmission Bell Housing, Iron  
Trans Oil Cooler (Integral Oil Pump)  
Synthetic Lubricant - Transmission, 50w (Synthetic Lubricant)  
Without Driveshaft Guard for Center Bearing  
Driveline- Main, Spicer 1810 HD W/Coated Splines

## **CAB**

### **MACK (BERGSTROM) INTEGRAL W/HEATER COMBINATION HEATER/DEFROSTER AND CONDITIONER**

Air Restriction Monitor (Intake), WITHOUT Air Restriction Monitor  
Cab, LH-Drive Ca68 Conv Cab  
Cab Mounting, Air Suspension  
Certified Weight  
Two (2) Extra Dash Mounted Illuminated Toggle Switches  
Park Brake And Engine Running Activated  
(4) Dome Lamps - Door And Switch Activated  
Door Interior Trim Panels, Padded Vinyl With Arm Rest Pads  
Fender Extensions  
5lb (ABC Rated/Amerex) Mounted Between LH Seat Base And Door With Valve Aimed Rearward  
Gauge Cluster, Exhaust Pyrometer And Transmission Oil Temperature Gauges  
Gauge, Engine Oil Temperature  
Gauges, English/Metric Display  
Without Rear Axle Oil Temperature Gauge  
Gauge, Speedometer W/trip Odometer (Electronic 1% Accuracy)  
Engine Tachometer  
Glass Cab Window, Safety Tinted Windshield, Side And Rear Windows  
Diagonal Grab Handle On Inside Driver's Door  
Grille - Hood Air Intake, Bright Finish Grille  
Grille, Bright Finish Bars W/Bright Finish Surround Grill Mounted  
Headliner, Vinyl Covered Foam Padded Headliner  
Hood And Fenders, Composite Material - Tilttable W/Inspection Hatch  
Hood Insulation  
Painted Hood Latches  
Horn - Air, (2) Mack Rectangular Single Trumpet (One Each Side Of Cab Roof)  
Horn - Electric, Single Tone  
Identification/Clearance Lights, (5) Marker And Clearance, Incandescent, Surface Mounted  
In-Dash Storage, Memo Area And Clip  
Instrument Cluster Display, Co-Pilot Driver Display, Enhanced 4.5" Diagonal Lcd Display W/4-Button Stalk Control  
Interior Trim (Purebred - Slate Gray) Vinyl headliner & seat covering, 2 netted storage compartments and center CB radio mounting provisions in overhead console, rear panel with storage pouch, polyurethane floor mat, 2 cup holders, slate gray instrument panel with black gauge bezel, Sandstone door panels & trim, RH door peep window, padded interior sun visors both sides, 2 spoke slate grey urethane cushion grip steering wheel with Bulldog horn button, adjustable tilt/telescoping steering column, hand crank LH/RH windows, 2 general overhead lights, 1 driver overhead light & 1 map non-glare overhead light, 2 12V power sources, seat belts, lap and shoulder W/cab mtd shoulderbelt, 2 coat hangers, 2 trash bag hooks, RH storage compartment, RH Door Peep Window  
Chassis Keyed At Random -2 Keys  
Mirrors - Exterior, West Coast, RH & LH Bright Finish Mack Bulldog Heated  
Mirrors - Convex Type, Bright Finish, LH & RH, 8 Dia. Convex  
Overhead Console, (2) Storage Compartments And Net Retainers W/Center Mounting For CB Provisions  
Personalized Name Plate: Wantage Township  
Power Outlets, (2) 12-Volt Auxiliary Power Outlets - Dash Mounted

# BID SPECIFICATION A

AM/FM Stereo Cd W/Weatherband  
Radio Antenna, Cab Mounted Behind LH Door  
CB Radio Mounting Reinforcement In Header Console  
Emergency Triangle Kit Parallel To Inside Surface Of Riders Seat Base  
Seat - Driver, Bostrom Talladega 915 (Mid.-Back) Air Suspension  
Seat- Rider, Mack Fixed (Mid-Back) Non-Suspension  
Seat Arm Rests  
Seat Covering, All Vinyl Driver & Rider Seats  
Seat Belts, Lap and Shoulder W/Cab Mounted Shoulder Belt  
Without Roof Vent Ventilation  
Steering Column, Adjustable Tilt Telescope  
Steering Wheel, Two Spoke Urethane Grip Painted Spokes & Bulldog Horn Cap  
Storage Pouch Rear  
Sun Visor, Exterior, Fiberglass (Cab Color)  
Sun Visor - Interior, Both Sides (Padded Vinyl)  
Turn Signal Switch, Self-Cancelling Turn Signals  
Windshield, 2-Piece Windshield

## FRAME EQUIPMENT/FUEL TANKS

### **Include The Following Components:**

Bumper - Front, Ext.-Swept Back-Steel Channel 122.5" BBC  
Crossmembers, Bog and Intermediate Crossmembers, HD I-Beam  
HD Rear Crossmember, With Provision for Local Installation Of 20-Ton Pintle Hook  
Crossmember (Behind Rear Axle), Without Optional Crossmembers Behind Rear Axle/Bogie  
Front Frame Extension, 20" for Snow Plow Mount (Cont' Parent Rail) W/Tilt W/Inspection Hatch Type Hood W/Swept-Back Steel Bumper.  
Towing Device - Front, Hooks  
Towing Device- Rear, Hooks (Frame Mounted)  
Fuel Tank - LH, 66 Gallon (250 L) Aluminum, Sleeved D-Shaped  
Fuel Tanks - Bright Finish, Single Polished Aluminum  
Bright Steps & Straps- Fuel Tank  
11.8 Gallon (45 L) 22" Diameter Tank Left Side Frame Mounted

### **Omit/Disable The Following Components:**

Fuel Tank - RH, Omit RH Standard  
Without Fifth Wheel Mounting Angles  
Without Def Tank Cover  
Without Fuel Line Option  
Without Isolated Tank(S)

## FRONT AXLE/EQUIPMENT/TIRES

Front Axle, 20000# (9072kg) Mack FxL20 Wide Pivot Center  
Tires Brand/Type. Front, Bridgestone - Tubeless Radial Ply, (2) 315180r22.5 20 L M860a (All POS)  
Wheels - Front, Steel Disc (10-Hole)  
(2) 22.5x9.0 (228 Mm) Hayes Lemmerz 10-Hole Hub Piloted (11 1/4"/286mm BC) (Five Hand Hole) (6.42" Inset)  
Wheels - Polished (Front), Without Front Disc Wheel Bright Finish  
Brakes - Front, Meritor "S" Cam Type 16.5" X 6" Q+  
Brake Drums - Front, Cast Outboard Mounted  
Dust Shields - Front Brake, Furnish  
Hubs - Front, Ferrous  
Fag Schaeffler. Front Grease Seal  
Shock Absorbers, Front  
Slack Adjusters Front, Haldex - Automatic  
Springs - Front, Mack Multileaf HD 20000# (9072kg) Ground Load Rating  
Steering, Sheppard Sd110 + Hd94

# BID SPECIFICATION A

## REAR AXLE/EQUIPMENT/TIRES/RATIOS

Rear Axle, 30000# (13608kg) Meritor RS-30-185 Single Reduction  
Tires Brand/Type - Rear, Bridgestone - Tubeless Radial Ply, (4). 12r22.5 16 H L320 (Traction)  
Carrier/Ratio - Rear Axle, Malleable Housing, 4.56 Ratio  
Wheels - Rear, Steel Disc (10 Hole)  
(4) 22.5 X 8.25 (210 Mm) Hayes Lemmerz 10-Hole Hub Piloted (11 1/4/286 mm BC) (Two Hand Hole)  
Wheels - Polished (Rear), Without Rear Disc Wheel Bright Finish  
Brakes - Rear, Meritor-Cam - 16.5"X7" P Brakes  
Brake Drums Rear, Cast Outboard Mounted  
Dust Shields - Rear Brake, Furnish  
Hubs - Rear, Ferrous  
Oil Seals, Chicago Rawhide (Scotseal)  
Slack Adjusters - Rear, Haldex - Automatic  
Suspension - Rear, 30000# Multileaf Springs  
Spring Brake Chambers - Vendor, MGM Model TR-T (Tamper Resistant)  
Rear Brake Chambers Size 36/36 Type  
Locking Main Differential, Driver Controlled

### Omit/Disable The Following Components:

WITHOUT Protective Nylon Spacer Between Discs Wheel To Drum

## FRAME/WHEELBASE/PLATFORM

Wheelbase, 197" WB 109' CA  
Platform, 154' LP 44" AF Used With 197" WB  
Frame Rails, 11.811" x 3.54" x .32" Steel Section Modulus: 17.7 Cu in/RBM 2,120,000 in lbs. per rail  
Frame Reinforcement - Inside, WITHOUT 5mm Inside Channel Reinforcement

## AIR/BRAKE

Air Dryer, Meritor/WABCO Heated Air Dryer, 1200 W/Coalescing Oil Filter  
WITHOUT Relocated Air Tanks  
Anti-Lock Brake System, Bendix without Traction Control  
Air Control Valves - Vendor, Bendix Switches and Valves Where Possible  
Brake Control Valve System, Single Valve System  
Drain Valves, Manual (Petcock) Drain Valves On All Tanks  
Hand Control Valve for Rear Service Brakes

## TRAILER CONNECTIONS

### Omit/Disable The Following Components:

Omit Trailer Air Brake Connections  
Without Hose Tender  
Without Trailer Electrical Receptacle  
Omit Trailer Connectors Holder

## ELECTRICAL

Battery Box(es), Steel  
Battery Box Covers, Polished Aluminum  
Battery Box - Mounting, Right Hand Under Cab  
Dash Mtd, Indicator Body/Hoist Up "Bodybuilder Lamp"  
Chassis & Power Harness with Heavy Duty Casing  
Electric Circuit Protection Package, All Circuits Fuse/Breaker Protected  
Waterproof Electrical Connections Sprayed W/Protective Coating  
"Body Link" 111 W/Cab Pass-Thru  
Dash Control & Wiring, Wholesize to Accommodate Local Install Of Rnd/Rect Aux Fog Or Driving  
Signal Flasher Type, Kysor #1039-07732-10 W/Packard 3 Pin Sealed Connector Mounted On Steering Column  
near Bottom Of Dash  
Work Lights, Rh/LH Led Work Light (Steps & Ground) On Both Sides Truck

# BID SPECIFICATION A

## PAINT

Paint- Cab Exterior, Single Color, Mack Red [PPG: P9189]  
Paint - Cab, Urethane Clear Coat  
Paint - Chassis Running Gear, Mack Black (Urethane)  
Paint - Bumper, Same As Chassis Running Gear  
Paint - Fuel Tank, Same As Chassis Running Gear  
Paint - Front Spoke Wheels, Without Optional Spoke Wheel Paint  
Front Wheels Pre-Finished Gray  
Rear Wheels Pre-Finished Gray

## PAINT PROCESS CODES

Same Color as Chassis Running Gear (5ZB-A1X)  
Chassis Running Gear - STD COLOR (MACK BLACK) (6AB-Z1X)  
Same Color as Chassis Running Gear (7HB-A1X)  
WITHOUT Custom Paint for Hub & Drum/Spokes (5YB-Z1X)  
WITHOUT Custom Painted Front/Rear Rim/Wheel (6BB-Z1X)

## PTO/SPECIALTY/ADDITIONAL EQUIPMENT

PTO - Crankshaft Adapter: 1350 Series Flange (Does Not Include Front Frame Extension)  
PTO- Rear Engine (REPTO): Without Rear Engine Power Take Off

## VMAC IV PROGRAMMABLE PARAMETERS

### Include The Following Components:

Customer Vehicle Limiting Speed 65 Mph  
Pedal Road Speed Limiter 65 Mph  
Lower Gear Vehicle Limiting Speed N/A  
PDLO Engaged VLS Feature Furnish  
PDLO Engaged Vehicle Limiting Speed 25 Rpm  
Cruise Control Settings Without Allison Trans  
Cruise Control Max Set Speed 65 Mph  
Cruise Control Min Set Speed 20 Mph  
Cruise Control Autoresume W/Clutch Furnish  
Cruise'N Brake Engagement Delay 3 Mph  
Engine Overspeed Company Limit 2200 Rpm  
Fueled Engine Overspeed Company Limit 2100 Rpm  
Vehicle Overspeed Company Limit 75 Mph  
Fueled Vehicle Overspeed Company Limit 70 Mph  
Idle Logging Delay (Min) 2  
Monthly Trip Summary  
Periodic Trip Day of Month 1  
Daytime Running Lights WITHOUT Override Switch  
DRL Override Switch Speed Threshold 00 Mph  
DRL Override Switch Off Time (Min) 00 Mph  
Co-Pilot Fleet Trip Programming Access Fleet Level  
EHT Max. Engine Set Speed 2100 Rpm  
EHT Min Engine Set Speed 700 Rpm  
EHT Vehicle Speed Range Limit 10 Mph  
EHT Ramp Rate (Rpm/Sec)  
EHT Single Speed Control Set Speed 0000 Rpm  
EHT Hold To Nearest 50 Rpm  
EHT Accel-Decel Bump-Up 50 Rpm  
EHT Accel-Decel Bump-Down 50 Rpm  
Engine Protection - Oil Pressure Shutdown Furnish  
Engine Protection - Coolant Temp Shutdown Furnish  
Engine Protection - Engine Oil Temp Shutdown Furnish  
Engine Protection Trans Oil Temp Shutdown Furnish

# BID SPECIFICATION A

## Omit/Disable The Following Components:

LGVLS Feature Activation Omit  
Soft RSL Omit  
Smooth Cruise Omit  
Periodic Trip Hour of Day 0 (Disable)  
Periodic Trip Day of Week 0 (Disable)  
Fleet Management Via Co-Pilot Omit  
EHT Single Speed Control Activation Omit  
EHT Jump-To-Min Set Speed Omit  
Engine Protection - Coolant Level Shutdown Omit  
Allow Fan Override When Parked Omit  
Fan Activation with PTO Omit

## **FUEL ECONOMY INCENTIVE FOR USE WITH INSTRUMENT CLUSTER DISPLAY (C0J 0002)**

FEI Penalty Target Fuel Economy No Driver Incentive  
FEI Penalty Target Fuel Economy 0.0 mpg  
FEI Penalty Vehicle Speed Decrease 0 mph  
FEI Reward Target Fuel Economy 0.0 mph  
FEI Reward Vehicle Speed Increase 0 mph  
FEI Distance Calculation Interval (Miles) 00

## **GOVERNOR SETTINGS FOR USE WITH MANUAL TRANSMISSIONS**

### **Include The Following Components:**

Governor Type Min-Max Governor  
Engine, High Idle Speed If Stopped 0000  
Engine Rpm Limit In Upper Gears 0000  
1st Trans Ratio for Reduced High Idle 0000  
Last Trans Ratio for Full High Idle 0000  
Engine Low Idle Set Speed 650 Rpm  
Smart Idle Elevated Idle Rpm Time (Mins) 10  
Idle Shutdown Time (Mins) 10  
Idle Shutdown Warning Time (Secs) 30  
Idle Shutdown Warm-Up Temperature (Deg F) 100  
Idle Shutdown Warm-Up Timer (Mins) 5  
Idle S/D Override W/PTO Furnish  
Idle S/D Override W/Engine Load Furnish  
Idle S/D Override % Engine Load Threshold 20  
Idle S/D Control WITHOUT Idle Shutdown  
Idle S/D Override Lower Temp. Threshold (Deg F) 60  
Idle S/D Override Upper Temp. Threshold (Deg F) 80  
Maintenance Monitor Feature Activation Furnish  
Maintenance Monitor OEM Default Intervals MP Vocational  
Maintenance Due Warning Percent 90  
PTO 1 Max Engine Set Speed (Rpm) 2100 Rpm  
PTO 1 Min Engine Set Speed (Rpm) 600 Rpm  
PTO 1 Vehicle Speed Range Limit 10 Mph  
PTO 1 Ramp Rate (Rpm/Sec) 100  
PTO 1 Single Speed Control Set Speed 1000 Rpm  
PTO 1 Vehicle Limiting Speed 60 Mph  
PTO 1 Hold To Nearest Rpm 50 Rpm  
PTO 1 Accel-Decel Bump-Up 50 Rpm  
PTO 1 Accel-Decel. Bump-Down Rpm 50 Rpm  
PTO 2 Max Engine Set Speed 2100 Rpm  
PTO 2 Min Engine Set Speed 600 Rpm  
PTO 2 Vehicle Speed Range Limit 10 Mph  
PTO 2 Ramp Rate (Rpm/Sec) 100

# BID SPECIFICATION A

PTO 2 SINGLE SPEED CONTROL SET SPEED 1000 Rpm  
PTO 2 Vehicle Limiting Speed 60 Mph  
PTO 2 Hold To Nearest Rpm 50 Rpm  
PTO 2 Accel-Decel Bump-Up Rpm 50 Rpm  
PTO 2 Accel-Decel Bump-Down Rpm 50 Rpm  
Speed Sensor Tamper Detection System Activation Furnish  
Speed Sensor Tamper Detection Torque Limit (%) 50

## **Omit/Disable The Following Components:**

Vehicle Acceleration Limiting Feature Disable  
Reduced Engine Rpm Range In Upper Gears Feature Disable  
Driver Low Idle Adjust Feature Activation Omit  
Smart Idle Feature Activation Omit  
Idle 810 Abs Tamper Check Omit  
Idle Cooldown Feature Activation Omit  
Idle Shutdown Feature Activation Omit  
Idle S/D Override W/EHT Omit  
PTO 1 Single Speed Control Activation Omit  
PTO 1 Single Speed Control Autoset Omit  
PTO 1 Jump-To-Min Set Speed Omit  
PTO 2 Single Speed Control Activation Omit  
PTO 2 Single Speed Control Autoset Omit  
PTO 2 Jump-To-Min Set Speed Omit

## **DEALER INFORMATION**

Engine Warranty, 2yr/250,000 Miles Engine Warranty US10  
Manuals, Pedigreed Protection Plan Tech. Service Manual Provided  
Prep for Delivery  
Bulldog Floor Mats

**GENERAL BID CONDITIONS:**

1. The bidder shall have a service facility readily available to the township of Wantage stocked with parts and qualified personnel to handle any potential problems on an ongoing basis. The qualified bidder shall employ mechanics and/or supervisors with ASE truck equipment certification. This ASE certification must be furnished with the bid. An inspection of the vendor's facility will be conducted before an award is made
2. In order to eliminate any potential mounting or service problems, the body and the hoist shall be the product of the same manufacturer
3. All body and equipment suppliers shall have a New Jersey auto body license with a heavy duty vehicle endorsement. This license is required by the state of New Jersey to perform repairs on the equipment specified in this bid. A copy of the auto body license with the heavy duty endorsement shall be provided with this bid package - no exceptions
4. The bidder must supply owners/operators/parts manuals for evaluation by the purchaser, if requested, within one week of said request
5. Bids on equipment must be on standard, latest model equipment that is in current production.
6. **REFERENCES:** The Township of Wantage reserves the right to request a reference list of five (5) municipalities that currently own and operate the proposed unit within the state of New Jersey. If the reference list is requested, the bidder shall furnish the list within three (3) days. Failure to supply the requested list of references may result in the bidder being rejected.

**SPECIFICATION FOR GALION HEAVY DUTY MODEL 403U SERIES STAINLESS STEEL DUMP BODY**

The following specifications describe a new and unused dump and hoist. The body shall be designed for severe duty, and manufactured of stainless steel, as shown in the following. The body shall conform to all state and federal safety regulations. All components required to make a fully operational unit shall be included. The body and the hoist shall be supplied by the same manufacturer, and be of the latest design. The following specifications shall be considered the minimum. Exceptions to these standards shall be noted and completely described in writing with adequate supporting data to allow the Township of Wantage to determine if the exceptions are acceptable.

The installer of the dump body and hoist shall employ mechanics and/or supervisors with ASE truck equipment certification. A copy of the certification must be included with the bid.

The vendor installing the dump body and hoist shall submit with this bid a copy of the State of New Jersey auto body license with the heavy duty endorsement

**MINIMUM BODY DIMENSIONS:**

Inside Length:	10'
Inside Width:	84"
Outside Width:	96"
Side Height:	36"
End Height:	42"
Rear Post Height:	42"
Capacity:	7.7/9.0 Cubic Yards Water Level
Cab Shield:	Half (Minimum 24") Extension Over Cab

### **MINIMUM BODY CONSTRUCTION:**

1. The body shall be a GALION 403U.
2. The sides of the body shall be constructed of 7 gauge 201-2B stainless steel, and shall have sloping bottom rails
3. The front and the tailgate shall be constructed of 7 gauge 201-2B stainless steel
4. The floor shall be constructed of 7 gauge 304-2B stainless steel with a 2" floor to side radius
5. The top rail shall be formed in dirt shedding boxed type constructed of 7 gauge 201-2B stainless steel
6. There shall be front corner posts and three (3) vertical braces per side
7. The rear corner posts shall be 15" wide full depth
8. There shall be a 9" full depth rear bolster constructed of 7 gauge 201-2B stainless steel
9. The tailgate shall have full perimeter box bracing with two (2) intermediate vertical braces and one intermediate horizontal brace
10. The six (6) panel tailgate shall be double acting with two sets of banjo eyes and long chains to allow the tailgate to lay down horizontal with floor
11. The tailgate control shall be air operated - single pull rod type with Turnbucke adjustment and a 2-1/2" x 8" air cylinder. No disassembly will be required for adjustment
12. The top hardware shall be heavy duty stainless steel "tarp friendly" with overshot lower hardware
13. The spreader chains shall be 3/8" bright zinc plated steel and covered with Naltex protection covering
14. All hardware shall be stainless steel
15. The crossmembers shall be constructed of 4" @ 5.4# structural channel, and shall be spaced on 12" centers. All crossmembers shall be gusseted to the longills
16. The longitudinals shall be constructed of 6" @ 8.2 Channel
17. All lights and reflectors shall be led, and shall meet FMVSS requirements; there shall be led stop/tail/turn lights in the rear corner posts
18. A body up indicator light, as required by OSHA, shall be installed in the cab
19. The underbody and chassis frame shall be undercoated black
20. All welding shall be continuous. Skip welding or caulking is not acceptable.

### **MINIMUM HOIST REQUIREMENTS:**

1. The hoist shall be a GALION model U860D-DA, the hoist shall be a NTEA rated class 60, type V underbody hoist with a capacity of 20 ton at a 50 degree dump angle. Hoists not rated by the NTEA will not be accepted.
2. The cylinder shall have a 2-1/2" chrome plated piston rod with replaceable packing
3. The cylinder shall be double acting with maximum requirements of 2,300 psi and a 1050 cubic inch displacement
4. The bottom cylinder pin shall be not less than 2"
5. The cylinder bore ID shall be a minimum of 8" and have a 20" stroke
6. The hoist sub-frame shall be of full length severe duty unitized construction with 5" x 1/4" formed longmembers (casting or tubing is not acceptable)
7. The subframe shall be built with a572 grade 50 hi-tensile steel and four (4) 4140 grade weldable mounting castings that shall be welded to hoist sub-frame and bolted to the truck chassis
8. The hoist shall be equipped with dual cast steel I-beam lift arms and heavy duty cast steel torque arms
9. There shall be two (2) guides for dump body alignment
10. The lift link pins shall be 1-1/2" OD
11. The dump angle shall be a minimum 50 degrees
12. The hoist shall be double-acting: power up, power down with a 1,000 psi down side relief valve
13. The hoist shall be equipped with one (1) OSHA approved body prop
14. The body and hoist shall be the product of one (1) manufacturer to preclude any problems of mating and warranty
15. The rear hinge pins shall be 2" minimum
16. Grease fittings shall be located at all pivot points hoist and body

## **ACCESSORIES:**

1. The body shall be equipped with an automatic fully electric tarping system with a mesh cover and aluminum tarp arms
2. Stainless steel slide out steps shall be located at the left front corner of the body with a grab handle located above the steps
3. Stainless steel stone shields shall be installed ahead of the rear wheels
4. Three (3) coal chutes shall be installed in the tail gate. The chute shall measure approximately 12" high x 16" wide, and shall have dual pull rods with adjustable clevis
5. A 50 ton pintle hook shall be mounted on 1" steel plate at rear with two (2) "D" rings for safety chains, and securely mounted to the rear of the truck
6. The chassis supplied trailer brake package shall have the lines extended to the rear and glad hands shall be installed off to the side of the pintle plate
7. A 7 pole trailer light plug to match the township's specifications shall be installed in the pintle plate
8. There shall be two (2) Whelen 5gGA00FAR amber LED strobe lights mounted in the rear corner posts, two (2) Whelen 5GA00FAR amber LED strobes recessed in the cab shield front, and two (2) Whelen 5GA00FAR amber LED strobe lights installed in the cab shield sides. The lights shall be wired to an upfitter switch in the cab
9. The truck shall be equipped with a 12 volt, 97db back up alarm - ECCO 510

## **SPECIFICATIONS FOR A FRONT MOUNT CENTRAL HYDRAULIC SYSTEM**

The following specifications describe a front mount central hydraulic system that shall be used to operate the dump body, plow up, and down, wing functions and the spreader conveyor and spinner listed in the attached specifications. The hydraulic system shall conform to all state and federal safety regulations. All components required to make a fully operational unit shall be included. The following specifications shall be considered the minimum. Exceptions to these standards shall be noted and completely described in writing with adequate supporting data to allow the Township of Wantage to determine if the exceptions are acceptable.

All hydraulic system controls shall be mounted in the cab conveniently located for easy control by the vehicle operator. It is the responsibility of the vendor to ensure that all systems are compatible and operational.

The manufacturing, production, and installation of the hydraulic system shall be of the best commercial practices, and only material of the finest quality shall be used.

The installer of the hydraulic system and related equipment shall employ mechanics and/or supervisors with ASE truck equipment certification. A copy of the certification must be included with the bid

All body and equipment suppliers shall have a New Jersey auto body license with a heavy duty vehicle endorsement. This license is required by the state of New Jersey to perform repairs on the equipment specified in this bid,

A copy of the auto body license with the heavy duty endorsement shall be provided with this bid package.

## **HYDRAULIC PUMP**

1. The hydraulic pump shall be an axial piston pressure and flow compensated load-sensing type.
2. The pump shall be cast iron construction and rated to 6.00 cubic inches per revolution at maximum stroke which will deliver 24.7 gpm @ 1000 engine rpm.
3. The pump shall have a 2 inch suction line and 3/4" case drain line plumbed directly back to the reservoir.
4. The pump shall be rated for 3000 psi maximum and 2500 psi continuous.
5. The pump shall have a severe duty high pressure outboard Teflon shaft seal that protects the pump shaft bearing and seal from external contamination and salt spray.
6. The pump shall have a 1 1/4" keyed drive shaft and SAE type C mounting flange.
7. The pump shall be Force America FASD45-CBC.

## **MOUNTING**

1. The hydraulic pump shall be mounted with shaft centerline parallel to the crankshaft centerline and at a level to create not more than a three-degree angle on the driveline.
2. The pump mounting shall be incorporated with a bracket fabricated to mount in the extended frame rails of the truck

## **DRIVE LINE**

1. The hydraulic pump shall be driven directly off the engine crankshaft via a splined driveline to allow for movement.
2. The driveline shall include grease fittings on both u-joints
3. The driveline shall be a Force America model 1310-CBC series.

## **SHUT DOWN SYSTEM**

1. A single normally open, two position, two way, poppet style solenoid valve capable of stopping oil flow to the hydraulic system when actuated.
2. The valve shall be mounted directly to the hydraulic pump discharge port.
3. The valve assembly shall incorporate a high pressure relief valve to protect the system from over pressurizing during system shut down.
4. This solenoid valve shall be wired to a float type level indicator that is mounted from the top of the reservoir.
5. The system shall be designed so that when the float contacts close, the solenoid valve stops pump flow and an enunciator in the cab that is on a control panel alerts the driver.
6. The control panel will also incorporate an override switch wired to de-energize the shutdown system to facilitate diagnostics and equipment storage.
7. The override panel shall also contain warning lights for body up and filter bypass.
8. There shall also be a switch. On the circuit board that will allow shutdown on high temperature condition as well as low oil.

## **RESERVOIR/VALVE ENCLOSURE**

1. The hydraulic reservoir shall be frame mounted with a 35 gallon nominal capacity.
2. The reservoir/enclosure shall be constructed of 10 gauge steel and shall be internally baffled.
3. The valve enclosure lid will protect from both road and pressure washer spray.
4. The enclosure lid shall be removable by one person without the use of tools.
5. The valve enclosure lid shall be black high density polyethylene with stainless steel reinforcements.
6. The valve enclosure lid shall have molded integrated handles for ease of removal.
7. The valve enclosure lid shall be attached to the reservoir via four (4) rubber straps that can be removed without the use of any tools.
8. The mounting bracket shall be designed and supplied by the reservoir supplier.
9. The mounting system shall allow for a 1" frame clearance for frame obstructions.
10. The enclosure shall be mounted in a manner so as to not transmit any truck torsional loads through the tank.
11. The enclosure shall use a gasket-less passive technology (rubber seals, gaskets, or weather stripping will not be accepted).
12. All valve fittings, hose ends, filter, filter breather, sending units and electrical connections shall be protected by enclosure cover.
13. The reservoir supplier shall provide all valve fittings (JIC connections) and plumb the return line from the valve to the filter
14. The directional control valve must be easily accessible from all six (6) sides without the use of tools.
15. The hose exit and entrance shall allow for components to be mounted adjacent to the enclosure.
16. A 2" full flow brass ball valve shall be plumbed at the suction port of the tank
17. A low oil/high temp sending unit shall be mounted in the reservoir
18. The reservoir/valve enclosure shall be Force America Inc. VT35G2 valve/tank assembly

## **FILTER**

1. The hydraulic oil filter shall be mounted in the reservoir
2. The hydraulic filter shall be a 16-micron absolute and rated for no less than 70 gpm
3. The filter shall be model ts1600251S0/ZSREe40910 and shall include visual and electrical bypass indicators
4. The filter cartridge shall be constructed of a synthetic media
5. The return port in the filter shall be SAE #20 or larger.
6. A warning light shall be mounted in the cab and wired to the electrical filter bypass indicator.
7. The system shall be delivered with one spare filter element.

## **HYDRAULIC CONTROL VALVE**

1. The control valve shall be U.S.-manufactured
2. The valve shall be a load sensing type with O-ring ports
3. The mid-inlet section porting shall be #16 inlet, #20 outlet, #16 hoist section, #4 load sense port, and #10 or #12 for all other sections
4. The hoist section shall be stacked to one side of the mid-inlet and all other sections will be stacked on the other side
5. All ports shall be level with each other so as to lay flat on its base
6. There shall be a main relief in the mid-inlet section that will be set at 2200 psi to protect the system from being over pressurized

## **THE VALVE SECTION TO BE ARRANGED AS FOLLOWS:**

Hoist, 4-way for a double acting cylinder with down side work port relief set at 500 PSI

## **MID-INLET TRANSITION SECTION**

1. Plow lift, 4-way for a double acting cylinder with flow control
2. Plow angle, 4-way for a double acting cylinder with flow control
3. Wing toe, 4-way for a double acting cylinder with plow control
4. Wing heel, 3-way for a single acting cylinder with flow control
5. Wing slide, 4-way for a double acting cylinder with plow control
6. Spin-a-veyer section, consisting of two pressure compensated cartridges that shall be single piece design with hardened cartridge bores and spools
7. These shall be operated independently via a 12 VDC pulse width modulated signal
8. Each valve shall have heavy duty 7/16-20 UNF screw style manual overrides adjustable from no flow to full flow
9. These valves shall be mounted in a housing made of aluminum with gray anodizing for corrosion resistance and durability
10. The auger/conveyor shall be a 15 gpm spool and the spinner shall be a 7 gpm spool
11. The electrical connections shall be Weatherpack
12. The valve shall be Force America add-a-stack 4020-CBC valve

## **VALVE CONTROLS**

1. The valve controls shall be a feathering remote air control with air shift actuators for valve
2. The hoist control shall be a single axis control with lock in the center position to prevent accidental actuation
3. The control shall be mounted in a tower next to the driver
4. The plow and wing controls shall be multiple single axis controls stacked together in a swivel pedestal that will allow for either driver or wing man operation
5. There shall be a pressure protection valve to protect against loss of pressure in the primary system caused by a broken line or an air leak somewhere in the auxiliary system
6. There shall also be a FLR (filter, lubricator, and regulator) plumbed into the auxiliary air system to protect the air controls from contamination and being over pressurized
7. All the air tubing will be color coded to identify each individual hydraulic function

## **HYDRAULIC LINES AND FITTINGS**

1. All pipes, hoses and fittings shall be of adequate capacity to accommodate the volume of oil without undue heating
2. The low pressure suction line hose from the tank to the pump shall be of sufficient size to handle the volume of oil required by the return lines and shall be spiral wire reinforced
3. All high pressure hose from the pump to the valve to the operating cylinders shall be of sufficient size to allow the free flow of oil so as not to cause back pressure
4. All high pressure hoses shall be two wire braid reinforced, and shall have swivels at each end for easy removal
5. The hoses shall be Weatherhead H425
6. The hydraulic lines shall be routed in such a way as to minimize interference with equipment and chassis components
7. Appropriate support brackets, grommets, and tie wraps shall be provided to protect lines from abrasion, cutting and impact damage.
8. The maximum distance allowed between supports shall be 24"
9. Hydraulic hoses shall not be installed near manifolds or exhaust pipes so as to be affected by extreme heat
10. The hoses terminating in the front for the plow shall have 1/2" quick disconnects
11. All quick couplers shall have dust plugs or caps, and use bulkhead mounted fittings. Weld on fittings are not acceptable
12. The hoses terminating at the rear for the spreader shall be two (2) 1/2" quick couplers for the spinner, and two (2) quick couplers for the conveyor
13. All quick couplers shall be bulkhead style fittings. Weld on fittings are not acceptable.

## **SPREADER CONTROL CONSOLE: (5100EX)**

1. The electronic spreader control shall include proportional controls for auger, spinner, and Prewet spreader functions and shall be integrated into a small, rugged, plastic injection molded control box
2. The controller shall also be capable of reversing auger and cross conveyor
3. The auger and Prewet functions shall be operable in manual mode, open loop mode and closed loop mode
4. Spread rates for granular, spinner and Prewet shall have the ability to be adjustable inside of calibration
5. Materials shall be capable of being named
6. A security code shall be selectable in calibration to lock out undesired changes to the calibration settings
7. An optional supervisor use key shall be available for quick access to the calibration menu
8. The controller shall be modular in design for ease of installation and service allowing it to be mountable anywhere in the cab
9. A ram mount shall be supplied to allow for easy installation and swivel capabilities
10. Wiring connectors shall be keyed with wiring labeled throughout
11. All components must be durable for long life and trouble free operation
12. Spinner and spreader control dials shall be on the right side of the controller to allow for a clear view of the display while being adjusted
13. The enclosure shall provide a built in, protective surrounding around the spinner and spreader control knobs to prevent unintentional use and damage to the knobs.
14. The controller shall offer the ability to operate a straight blade plow and dump body
15. The outputs shall be controlled by comfortable, backlit rocker switches mowed into the controller above the display
16. An interlock switch integrated into the back of the controller shall be required to operate the hoist function to comply with all OSHA related regulations
17. The controller shall be capable of moving the plow up, down, left, and right.
18. The controller shall include off the shelf integration with precise brand gps/avl systems for advanced material logging and maintenance reporting

## **SPREADER CONTROL CONSOLE: (5100EX) Continued**

19. The controller shall also provide onboard current event and season totals for granular and pre wet materials
20. An integrated use port shall be used for data retrieval, firmware upgrades and for the loading and saving of calibration settings
21. The controller shall include a 3.5" high brightness, color touch screen LCD with. Adjustable backlighting
22. The touchscreen shall be used for calibration only and shall not be needed during normal spreading operation
23. The touch screen shall allow for easy navigation of calibration menus and data viewing menus
24. The screen shall display warnings for oil level, oil temp, filter bypass, low granular material, low liquid material, granular and Prewet feedback errors, and granular and feedback range errors
25. Optional audible warnings shall coincide with each visual warning and shall be individually adjustable
26. There shall also be a dedicated red led on the face of the controller for an additional body up indicator
27. This led shall not rely on software of the controller to operate
28. The spreader control shall be supplied with a valve prewire harness
29. The valve harness shall be 20 feet in length and have over molded din type connections at the valve the din connections shall have integrated gaskets and have an ip-67 rating. Separate din gaskets are not acceptable. Each valve output cable shall be clearly labeled with the spreader function
30. The controller shall pass J1113/4, J1113/13, and J1113/21 SAE testing standards
31. It shall also pass CISPR 25 IEC testing standards
32. It shall be capable of a 9-30vdc and shall have reverse polarity and overcurrent protection
33. Each output must offer suppression diodes integrated into the controller
34. The electronic spreader control shall be a Force America 5100EX-CBC.

## **WARRANTY**

1. One year Warranty on parts and labor.
2. Vendor to be located within 100 miles distance from the Township DPW Garage at 888 Route 23 in Wantage, to facilitate availability of parts and service

## Specifications For Under-Tailgate Spreader

1. The tailgate spreader shall be capable of spreading free-flowing granular material from 4' to 40'.
2. The trough assembly shall be constructed of 7 gauge 304 stainless steel with one-piece endplates, and shall be 96" in length.
3. The spreader portion of the quick-detach bracket shall be incorporated into the endplate.
4. All the interior seams shall be continuously electrically welded to eliminate corrosion pockets.
5. The one-piece combination cover and rear panel shall be removable and hinged so it can be raised for spreading and lay flat for dumping over the spreader.
6. An unobstructed, hinged bottom shall allow for clogged material to drop out when it's opened for easy cleanout.
7. The bottom trough shall have three (3) solid 1/2" hinges.
8. The spinner assembly shall be mounted independent of the bottom, thus eliminating the excessive weight on the bottom.
9. All latches shall be captive, heavy duty 304 stainless steel rods that work in the coldest weather without the use of tools.
10. The endplates shall have convenient chain hoist lifting slots placed at the balance points to provide easy level mounting and dismounting of the spreader.
11. The auger shall be a full 7' in length with one way flighting for left of center discharge of material.
12. The auger shall be 9" in diameter, 6" pitch, 5/16" thick on the outer edge and welded to a 2-7/8" O.D. schedule 40 pipe
13. The auger shafts shall be 1-1/2" in diameter, and shall be supported by heavy duty 1-1/2" sealed, self-aligning, re-lubeable, 4-bolt flange bearings.
14. The auger shall be driven by a low-speed, high torque motor.
15. The auger shall be driven by a hydraulic, direct drive motor, 45 cubic inch, 1-1/4" - 14 spline shaft with 7/8" "O" ring ports
16. The shaft coupler shall be stainless steel
17. The spinner assembly shall be mounted independent of the bottom cleanout door and shall have an easy one-man mount and dismount.
18. The standard spinner disc shall be 18" formed poly
19. The disc shall be mounted directly to a low speed, high torque hydraulic motor via a cast iron spinner hub
20. The 6 replaceable flights shall be manufactured of black UHMW. The spinner disc shall be mounted directly to the hydraulic motor by means of a cast iron spinner hub.
21. The standard spinner motor shall be a low speed high torque motor.
22. The left discharge spinner shall be self-leveling with stabilizer rods, and shall mount off the truck frame - spinner shall be standard length, manufactured from 304 stainless steel
23. A universal parallel arm and a spinner shield shall be included.
24. Quick disconnect mounting hardware shall be provided.
25. All welding performed on the tailgate spreader must be in compliance with current AWS procedures and guidelines recognized within the State of manufacture.
26. Unit must be manufactured within the United States of America. Burden of proof shall be upon the manufacturer.
27. Manufacturer shall provide caution labels, decals and any warnings deemed necessary.
28. Manufacturer shall attach their standard warranty statement. All components described herein shall carry minimum one-year warranty.
29. The installer of the spreader shall employ mechanics and/or supervisors with ASE certification. A copy of the certification MUST be included with the bid
30. 4" Spot light assembly wired to a switch in the cab shall be located at the driver side rear

## Specifications for Power Tilt Truck Portion Hitch

1. Custom 1/2" side plate model designed, constructed, and installed for extreme service.
2. The hitch shall be of the power tilt design, which is to utilize the 4" x 10" double acting lift cylinder to also tilt the hitch.
3. The hitch integral upper and lower horizontal braces shall consist of one 6" x 4" x 3/8" rectangular tubes and one 5" x 7" x 3/8" rec tube.
4. The hitch vertical structure shall be two (2) 6" x 4" x 1/2" square tubes, reinforced with 1/2" gussets.
5. The lift arm shall be of heavy-duty design and plasma cut from 5/8" plate. This plate shall be reinforced with two (2) 1/2" x 2" bar stock and shall form a triangular configuration.
6. The vertical members are to be constructed of 2-1/2" x 2-1/2" x 5" x 1/2" channel.
7. The bottom horizontal member shall be 6" structural channel.
8. There shall be a 3" x 4" heavy wall tubing brace that provides a mounting for the lower portion of the lift cylinder.
9. 1/2" thick ears shall be welded to the brace to provide for a pin to connect the cylinder to the hitch.
10. The lifting arm is to be a fold flat type.
11. The base of the lifting arm is to be manufactured from 3" x 4" tube and is to have a hole drilled to accept a 1" connecting pin.
12. The extendible portion of the arm shall be constructed of 3" O.D. x 3/8" thick wall square tubing and have ears welded to accept a lift cylinder.
13. There shall be a three hole banjo plate on the end of the lift arm to accept the plow lift chain or chains.
14. The lift arm upper cylinder mount shall be 1/2" x 2 1/2", with a hole to utilize a 1" pin.
15. Hitch shall be 100% continuously welded.
16. There shall be two (2) triangular supports for the lift arm and shall be welded to the 6" x 4" x 3/8" square tubing.
17. The supports shall consist of a 1/2 x 7" radius plate, further supported with an additional 1/2" gusset.
18. The support shall provide a hole for a 3/4" bolt for attaching the 1/2" x 2" bar.
19. The upper 4" x 4" x 3/8" push tube shall have provisions for pin storage for the 1" x 5-1/2" handle pin that is retained with a 1/4" chain. This pin shall be utilized for locking the lift arm in place when the power unit feature is being used.
20. The lower 5" x 5" x 1/2" angle shall have two (2) 1/2" plates that are flame cut and designed to conform to the outside of the 4" tube. The plates shall be used as the lower cylinder mount and are to accept a 1" pin.
21. The tube shall also have four (4) 1/2" flame cut plates to provide locking and unlocking of the hitch for the tilt feature.
22. The plates shall have 2" handle pins that are retained with 1/2" safety chain and a 1/2" hair pin.
23. Also installed on the lower angle shall be a 1/2" radius plate with a 5/8" diameter hole to retain a 1/4" safety chain when the hitch is in the tilt position.
24. The lower 5" x 7" tube shall provide support for the vertical 6" x 4" x 1/2" angle and shall be integral for the lower hinge that is utilized in the tilt feature.
25. The two lower hinges shall consist of four (4) 1/2" plates that are welded to the 5" x 7" tube and are designed to accept 2" hinge pins.
26. The hinge pins shall be easily removable and replaceable.
27. There shall be a 5/8" plasma cut plate welded to the 6" x 4" x 1/2" angle that shall provide the attachment plates to attach to the plow portion hitch.
28. The lower truck portion attachment plate shall be 1/2" x 3" x 8" structural angle designed to accept Gled type receiver latch and loop hitch
29. All hardware shall be zinc plated.
30. All welding performed on the hitches shall be in compliance with current AWS procedures and guidelines recognized within the State of manufacture.

## Specifications for Power Tilt Truck Portion Hitch, Continued

31. Painting process of unit: In view of environmental safety, environmental safety, environmental sensitivity and a corrosion resistant finished product, the paint process for all steel components shall be powder coat paint, incorporating the encasement type process. The material used shall be environmentally friendly and shall consist of 95% recycle residue that emits "0" VOC's into the environment.
32. In preparation of the curing and baking process, all steel components shall be G-25 grade shot blast to prepare the steel surface for strong adhesion by removing any scale, rust and foreign materials that may be present.
33. Following the shot blast process, all steel components shall pass through an alkaline wash with a clear water rinse immediately following.
34. Following the alkaline wash, all steel components shall pass through a phosphate wash with a clear water rinse immediately following.
35. In further preparation of the powder coat paint process, all components shall be oven dried following the wash and sealing process.
36. Immediately prior to the powder coat paint being applied, all steel components shall be preheated to a minimum of 100-degree Fahrenheit for uniform powder paint coating.
37. Instantly following the preheat stage, the powder coat paint shall be electro-statically applied in excess of three mils thick.
38. In view of metal thickness and steel mass present and for consistent adhesion of the powder coat paint, the minimum oven curing time shall be 25 minutes at a cure temperature of no less than 400 degrees.
39. The powder paint used shall be TGIC Polyester coated black in color.
40. Unit must be manufactured within the United States of America. Burden of proof shall be upon the manufacturer for this section.
41. Manufacturer shall attach their standard warranty statement. All components described herein shall carry minimum one-year warranty.
42. The plow hitch shall be installed on the vehicle within the state of New Jersey
43. The bidder shall employ mechanics and/or supervisors with ASE truck equipment certification. A copy of the certification MUST be included with the bid
44. Accessories:
45. Trucklite 80800 or approved equal plow lights with brackets or equal shall be installed on the plow frame
46. Receiver latch and loop - Gled type or equal quick hitch attachment shall be fully compatible with other Township owned trucks
47. 12" steel grip strut deck plate shall cover hitch over top of front chassis frame extension

## Specification For Heavy Duty Full Benching Wing

1. The GVW range for this application shall be a minimum of 35,000 lbs. through 80,000 lbs.
2. A minimum of 18" behind cab clearance is required
3. The wing shall mount on the passenger side of the chassis
4. The height of the wing moldboard intake shall be 29 inches. The height of the wing moldboard discharge shall be 39 inches. Both the inboard and outboard measurements include an 8" cutting edge.
5. The length of the cutting edge shall be 10 ft.
6. The cutting edge shall be 5/8" x 8" x 10' AASHO punched.
7. The cutting edge shall be fabricated of 1084 steel, hot rolled, with a Brinell hardness of not less than 197 to 241
8. Wing moldboard thickness shall be a minimum of 3/16", fabricated of A569 steel.
9. The wing moldboard bottom angle or base angle shall be a minimum of 4" x 4" x 3/4" thick structural angle iron.
10. The moldboard shall be reinforced with 1/4" x 31/2" between each bolt hole and have a 1/2" x 3" x 3" gusset under each rib.
11. The wing shall have safety shear bolt protection
12. The vertical moldboard ribs shall be a minimum of 1/2" thick and shall be one piece
13. Spliced ribs will be unacceptable.
14. The moldboard ribs shall be continuously electrically welded to the moldboard sheet and to the bottom angle.
15. The wing shall be provided with dual telescoping, three position adjustable, spring cushioned push arms with shear pins.
16. The wing posts shall have sufficient ram length or sheave arrangement to permit lowering of the outer wing tip approximately 8" below the ground line
17. The wing moldboard shall have a minimum ground clearance under the raised moldboard of 60" when the push arm is parallel to the ground.
18. The wing shall provide sufficient tire clearance for turning left and right when the wing is in the lowered position
19. The front wing post cylinder shall be a minimum of 3-1/2" ID x 62" stroke
20. The double acting direct lift cylinder shall have rod diameter of a minimum of 2"
21. The front post shall be fabricated from an 8" x 15# structural steel I-beam
22. The front slide plate shall be manufactured from 3/4" thick steel which will incorporate a 3" mechanical float
23. The slide plate shall be retained in the I-beam with a minimum of 3/4" square structural steel bars and welded in permanently.
24. The 3-1/2" ID x 48" rear post double acting slide cylinder shall have a 2" rod.
25. The heel of the wing moldboard shall be lifted and lowered with a hydraulic cylinder arrangement operated by a separate 3" I. D. x 15" stroke cylinder located on the push arm
26. The wing shall be mounted so that it will fold closely to the truck and shall be provided with safety chains on both the front and rear posts to secure the wing in a folded position for travel.
27. The rear post shall be fabricated using a 7" x 5" x 3/8" heavy wall tube
28. The rear post shall be designed so that the push arms are pushing in a straight line on the rear tube.
29. The rear wing post tube shall have a steel plate welded to it to form a stationary slide
30. The moving slide plate that the push-arm is attached to shall be a minimum of 1/2" steel. It shall be retained to the stationary plate to form a slide by 5/8" bolts.
31. The moving slide plate shall have two grease zerks for periodical lubrication.
32. The valve requirement for the heavy duty benching wing shall be two double-acting directional control valves, 1-single acting for wing heel.
33. Two (2) heavy duty adjustable, spring cushioned push arms shall be provided
34. The outer tube of the push arms shall measure 3.07" ID x .216" wall thickness with inner push arms measuring 3" OD x .25" wall thickness
35. The push arms shall pin to the moldboard and to the rear wing mount with cast steel knuckles
36. All hardware and fasteners shall be electronically plated and corrosion resistant

## Specification For Heavy Duty Full Benching Wing, Continued

37. Painting process of unit: In view of environmental safety, environmental sensitivity and a corrosion-resistant finished product, the paint process for all steel components shall be powder coat paint, incorporating the encasement type process. The material used shall be environmentally friendly and shall consist of 95% recycle residue that emits "0" VOC's into the environment.
38. In preparation of the curing and baking process, all steel components shall be G-25 grade shot blast to prepare the steel surface for strong adhesion by removing any scale, rust and foreign materials that may be present.
39. Following the shot blast process, all steel components shall pass through an alkaline wash with a clear water rinse immediately following.
40. Following the alkaline wash, all steel components shall pass through a phosphate wash with a clear water rinse immediately following.
41. In further preparation of the powder coat paint process, all components shall be oven dried following the wash and sealing process.
42. Immediately prior to the powder coat paint being applied, all steel components shall be preheated to a minimum of 100-degree Fahrenheit for uniform powder paint coating.
43. Instantly following the preheat stage, the powder coat paint shall be electro-statically applied in excess of three mils thick.
44. In view of metal thickness and steel mass present and for consistent adhesion of the powder coat paint, the minimum oven curing time shall be 25 minutes at a cure temperature of no less than 400 degrees.
45. The powder paint used shall be TGIC Polyester orange moldboard with the pushframe being coated black in color.
46. All welding performed on the wing and mounting hardware shall be in compliance with current AWS procedures and guidelines recognized within the State of manufacture.
47. The unit shall be manufactured within the United States of America. Burden of proof shall be upon the manufacturer for this section.
48. The manufacturer shall provide caution labels, decals and any warnings deemed necessary.
49. The manufacturer shall attach their standard warranty statement. All components described herein shall carry minimum one-year warranty.
50. Cast iron moldboard shoe
51. Wrap around heel curb guard
52. 4" spot light installed above the passenger door for wing plow

## Specifications for Monroe Truck Mounted Electric Pre-Wetting System

This specification describes an on board pre-wetting system for dispensing measured amounts of calcium chloride and other chemicals used in snow and ice control.

1. Construction and components used shall be non-ferrous and/or corrosion resistant.
2. System supplied shall be complete with pump, nozzles, hoses, fittings, wiring, tank, and mounting hardware.
3. A single 12 vdc sealed pump/motor combination rated at 3 gpm.
4. Pump shall be a positive displacement, three-chamber diaphragm design with an integral 45 psi shut off switch.
5. Motor shall be of the permanent magnet design.
6. Pump components shall be constructed of polypropylene, viton and santoprene.
7. The pump enclosure shall be mounted on the side of the chassis frame in an enclosure constructed of 9/64" wall thickness, rotational molded, and UV stabilized polypropylene (natural color).
8. It shall have a sealed removable cover and be retained by a lanyard.
9. The enclosure shall be mounted in a location that will not hinder normal spreader maintenance or operation.
10. This enclosure will protect the pump/ motor assembly.
11. Liquid connections shall be made via threaded coups integral with the enclosure.
12. The reservoir shall have a minimum 120 gallon capacity with internal baffles.
13. Single tank total capacity shall be 120 gallons, and shall be mounted between the cab and the dump body
14. The tank shall have a minimum of two (2) 5" fill caps, lanyard retained.
15. The tank shall be constructed of a rotationally molded and UV stabilized polypropylene material.
16. The tank shall have a minimum 3/8" wall thickness.
17. The tank shall have two (2)1-1/4" ports and molded markings located on each end.
18. The ports shall be located as close to the bottom as possible.
19. The reservoir will include a low level switch and a vent.
20. Tank shall be complete with necessary stainless steel mounting hardware
21. The brass spray nozzles shall be located in the spinner chute assembly,
22. Two nozzles shall be located on the front side of the chute, with 1 additional nozzle mounted on the back side of the chute.
23. The nozzles shall be mounted as close to the bottom of the conveyor as possible.
24. A 5 PSI check valve shall be installed to prevent siphoning of the liquid chemical.
25. All plumbing components shall be constructed of heavy duty glass reinforced polypropylene.
26. The hose for the suction line to the pump shall be 1/2" EPDM.
27. All pressure hoses shall be 1/2" EPDM.
28. A 3/4" filter with 304 stainless steel reinforced screen shall be installed in the suction line.
29. The system controller shall be a Force America 5100EX-CBC located in the cab within easy reach of the operator - Refer to hydraulic specification