



REQUEST FOR BID (RFB)
FOR
SNOW AND ICE
EQUIPMENT
BID #2022-26

Issued by:

Portage County
Purchasing Department

**All required bid documents/copies must be submitted
No later than 2:00 PM on 01/05/2023 to:**

**Portage County Purchasing
1462 Strongs Ave
Stevens Point WI 54481**

LATE BIDS WILL BE REJECTED
There will be a public opening for this Bid
1462 Strongs Ave
Stevens Point WI 54481

For further information regarding this
RFB contact Karen Kluck
At (715) 346-1333
Email: kluckk@co.portage.wi.gov

Issued: 12/16/2022

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1. GENERAL INFORMATION AND SCOPE

The County of Portage Wisconsin (County), through its Purchasing Department (Purchasing), requests bids to establish a contract for the purchase of snow and ice equipment to be installed on Bodies with hydraulics and quick hitches. It shall be mounted on three County owned 2023 Western Star model 47 X patrol trucks G.V.W. of 66,000 pounds, wheelbase 230 inches and a C.T. of 148 inches with an O.A.L. of 348 inches to the front of the frame extensions. Front axle and suspension rating of 20,000 pounds with rear axle and suspension rating of 46,000 pounds. Frame G.V.W. rating of 66,000 pounds, 24 inch integral front frame extension with 23.50 S.M., 120,000 P.S.I. single channel bolted frame.

The attached Standard Terms and Conditions shall govern this bid unless specifically modified in these bid documents. Conditions of bid that include the word "must" or "shall," describe a mandatory requirement. All specifications are defined as mandatory minimum requirements unless otherwise stated. If no bidder is able to comply with a given specification or condition of bid, Purchasing reserves the right to delete that specification or condition of bid. Failure to meet specification requirements shall disqualify your bid. Vendors may not submit their own contract document as a substitute for these terms and conditions.

Retain a copy of these Bid documents for your files. Should you receive an award, these Bid documents become your contract terms and conditions.

Definitions: The following definitions are used throughout the RFB documents:

Bidder/Vendor means a company or individual submitting a bid response to this RFB

Contractor means bidder awarded the contract

County means the County of Portage Wisconsin

Purchasing means the County of Portage Purchasing Department

RFB means Request for Bid

State means the State of Wisconsin

VendorNet means the State of Wisconsin's electronic purchasing information system

A. Portage County Facilities Department in order to gain access to the storage building.

2. CONTRACT TERM

Approximate Start Date of 01/20/2023 through 12/31/2023, with three (3) one-year renewal options. Any extension must be authorized by mutual agreement of the Contractor and the County.

3. QUESTIONS

If a vendor discovers any significant ambiguity, error, conflict, discrepancy, omission, or other deficiency in this RFB they shall notify the Procurement Director named below of such error and request a modification or clarification.

Any communications or questions regarding the specifications, or special conditions of bid should be written and submitted to Purchasing as soon as possible, but no later than **12/28/2022**. Purchasing will respond to questions if necessary by issuing an official addendum, posted on VendorNet and on the Portage County Website. Bidders are responsible for checking these websites for any addenda before submitting a bid. Failure to acknowledge addenda may disqualify your bid.

<https://vendornet.wi.gov/>

<https://www.co.portage.wi.us/>

Any correspondence or questions submitted must include the bid number

Submit questions in writing via email to:

Karen Kluck, Procurement Specialist, e-mail: kluckk@co.portage.wi.gov

Phone: 715-346-1333

4. METHOD OF BID

Bidder must submit a total price as designated. All prices must be quoted in U.S. Dollars. Bidder must bid on the enclosed Bid Offer Form.

5. BID SUBMISSION

Bidders must submit **an original and one copy** including all required materials for acceptance of their bid by the date and time listed on the Bid Cover Sheet. Any bids received after that time and date will be rejected. Receipt of a bid by the US mail system does not constitute receipt of a bid by Purchasing, for purposes of this RFB. Also refer to the Bid Response Requirements.

Faxed and e-mailed bids are not accepted. Bids must be forwarded to:

Portage County Purchasing
1462 Strongs Ave
Stevens Point WI 54481

All bids are to be packaged, sealed, and show the following information on the **outside of the package**:

- Vendor's Name and Address
- Request for Bid Title
- Request for Bid Number
- Bid Due Date

6. BID RESPONSE REQUIREMENTS

In order for your bid to be considered, the following information must be provided by the due date and time listed on the bid cover page. Include:

- 6.1 Addendum Cover (Signature) Page(s), if applicable to this bid request
- 6.2 Signature and Authority Affidavit Form, Attachment A
- 6.3 References Sheet, Attachment B
- 6.4 Bid Offer Form, Attachment C
- 6.5 Two copies complete specifications and descriptive brochure or detail for the product(s) bid
- 6.6 Manufacturer's/Bidder's warranty information

The Signature and Authority Affidavit submitted in response to this RFB must be signed by the person in the Contractor's organization who is responsible for the decision as to the prices being offered in the Bid or by a person who has been authorized in writing to act as agent for the person responsible for the decision on prices and services. Failure to provide these forms/information with your bid submittal may disqualify your bid. The County encourages all bidders to print their submission double-sided to save paper

7. METHOD OF AWARD

Award(s) shall be made on the basis of the lowest total cost from a responsive, responsible bidder who meets specifications for Bid Line #1 and Bid Line #2. Timeliness of service delivery may be considered when making this award.

8. BIDDER/CONTRACTOR QUALIFICATIONS

To be eligible for a contract award, you must be qualified and able to provide the following:

- 8.1 Bidder must be an original manufacturer, or distributor and/or dealer/company authorized by manufacturer.
- 8.2 Bidder must supply references of three firms to which similar products and service have been provided during the past five years to a comparable-sized institution or company. If contacted, all of those references must verify that a high level of satisfaction was provided. Use Attachment B to list references.
- 8.3 Bidder must be in the business of snow and ice equipment for the past five years.

9. SPECIFICATIONS

Adequate detailed specifications of the product(s) offered must be included with your bid to establish equivalency and to insure that the product being bid meets all specifications. Failure to provide product specifications and information may disqualify your bid. The County of Portage shall be the sole judge of equivalency and acceptability. Any attachments, documents, price lists, etc. to support your bid, must include the bid number. Bid specifications may not be revised without an official written addendum issued by Purchasing.

See Attachment E & F for detailed technical specifications.

10. DELIVERY

Delivery is desired as soon as possible after receipt of a purchase order. Delivery expected 115 days after delivery of chassis to successful bidder. If delivery is not met a \$100.00 deduction per unit will occur for each calendar day the unit is late. Please indicate on the Bid Offer Form your estimated delivery time in calendar days.

11. F.O.B. DESTINATION FREIGHT INCLUDED

Delivery of complete trucks will be made by awarded bidder to the Portage County Highway Department, 800 Plover Rd, Plover, WI 54467. Bid prices shall include all transportation, insurance charges and installation/operation manuals.

12. SUBCONTRACTING OR THIRD PARTY PAYMENTS

All subcontracting shall be pre-approved upon award by the County before any work begins. Subcontractors must abide by all terms and conditions of the contract. The prime contractor shall be responsible for all subcontractor(s) work and payment. The County will not pay any subcontractor or third parties directly.

13. INVOICING REQUIREMENTS

The County's terms are to pay or reject invoices within 30 days of receipt. Before payment is made, it also must verify that all invoiced charges are correct as per this contract. Only properly submitted invoices shall be officially received for payment. Thus, your prompt payment requires that your invoices be clear and complete in conformity with the instructions below.

All invoices must be itemized showing:

- | | |
|--------------------------|------------------------------------|
| a. purchase order number | d. complete product description as |
| b. vendor name | stated on your bid. |
| c. remit to address | e. prices per the contract |

The original invoice must be sent to the bill-to address shown on the Purchase Order.

Invoices/Purchasing card

Orders placed by the County using a purchasing card must reflect current contract pricing.

14. CONTRACT CANCELLATION

This Contract may be terminated by either party under the following conditions:

- 14.1 The County may terminate the contract at any time at its sole discretion by delivering 10 days written notice to the Contractor.
- 14.2 If at any time the Contractor's performance threatens the health and/or safety of the County or the public, the County has the right to cancel and terminate the Contract without notice.

15. APPEALS PROCESS

Notices of intent to protest and protests must be made in writing. Protestors should make their protests as specific as possible and should identify Wisconsin Statutes or Portage County Ordinance provisions that are alleged to have been violated.

The written notice of intent to protest the intent to award a contract must be filed with Chris Schultz, Procurement Director, Portage County Wisconsin, 1462 Strong's Ave, Stevens Point, WI 54481, and received in his office no later than five (5) working days after the notice of intent to award is issued.

The written protest must be received in his office no later than ten (10) working days after the notice of intent to award is issued.

The decision of the Procurement Director may be appealed to the Corporation Counsel Office within (5) working days of issuance. The appeal must allege a violation of a Wisconsin Statute or a Portage County Ordinance provision.

ATTACHMENT A

SIGNATURE AND AUTHORITY AFFIDAVIT FORM

BIDDING COMPANY NAME: _____

FEIN (Federal Employer ID Number) _____ OR Social Security # (if Sole Proprietorship) _____

Address: _____

City _____ State _____ Zip + 4 _____

Number of years in Business _____

Name the person to contact for questions concerning this bid.

Name _____ Title _____

Phone (____) _____ Toll Free Phone (____) _____

Fax (____) _____ Email Address _____

In signing this bid, we also certify that we have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit a bid; that this bid has been independently arrived at without collusion with any other bidder, competitor or potential competitor; that this bid has not been knowingly disclosed prior to the opening of bids to any other bidder or competitor; that the above statement is accurate under penalty of perjury.

The undersigned, having familiarized themselves with the conditions affecting the cost of the work, having read completely the specifications, hereby proposes to perform everything required and to provide and furnish labor, materials, equipment, tools and all other services and supplies necessary to produce in a complete and workmanlike manner all of the materials or products described in the specifications relating to this Bid.

I further certify that I have carefully examined the bid documents and all terms herein, and site where the work is to be done and have no agreements to prevent the completion of said work.

Signature

Title

Name (type or print)

Date

This firm hereby acknowledges receipt / review of the following addendum(s) (If any)

Addendum # _____ Addendum # _____ Addendum # _____ Addendum # _____

ATTACHMENT B

REFERENCES

Vendor: _____

Provide company name, address, contact person, telephone number, and appropriate information on the product(s) and/or service(s) provided to customers similar to those requested in this solicitation document. Potential subcontractors cannot be references. Any subcontractor arrangement for the completion of this work shall be listed on a separate page.

Company Name: _____
Address (include Zip + 4) _____
Contact Person: _____ Phone No. _____
E-Mail Address: _____
Product(s) Used and/or Service(s) Provided: _____

Company Name: _____
Address (include Zip + 4) _____
Contact Person: _____ Phone No. _____
E-Mail Address: _____
Product(s) Used and/or Service(s) Provided: _____

Company Name: _____
Address (include Zip + 4) _____
Contact Person: _____ Phone No. _____
E-Mail Address: _____
Product(s) Used and/or Service(s) Provided: _____

Company Name: _____
Address (include Zip + 4) _____
Contact Person: _____ Phone No. _____
E-Mail Address: _____
Product(s) Used and/or Service(s) Provided: _____

ATTACHMENT C

BID OFFER FORM

Vendor: _____

Bid Price (Truck 1 & 2)		
The following items must be itemized on the bid tab sheet. The bid will be awarded to the lowest total cost for trucks 1,2,3.	Cost Per Truck	Total Cost (Trucks 1 & 2)
1. Body		
2. Sander		
3. Under Body		
4. Force controls and components		
Other		
Labor		
Total Trucks 1 & 2		
Bid Price (Truck 3)		
1. Body		
2. Sander	Provided Portage Cty Highway Depart	Provided Portage Cty Highway Depart
3. Under Body		
4. Force controls and components		
Other		
	One set of poly fenders provided by Portage County Highway	One set of poly fenders provided by Portage County Highway
Labor		
Total Truck 3		
Total trucks 1,2,3 (Bid Line #1)		
Quad Conversion		Total Cost
Cost for Quad Axle Conversion (The quad conversion work will be awarded separate from above patrol truck bid line)		
Total for Quad axle Conversion (Bid line #2)		

Lead time for truck 1, 2, & 3 Conversion completion is _____ days after receipt of chassis.

Lead time for Quad Truck Conversion completion is _____ days after receipt of chassis.

(Portage County would expect delivery of all conversions of trucks from the body builder **115 days** after the delivery of each chassis from the truck dealer.)

Additional build(s) may be contracted using the previous developed contract through 12/31/2025.
Pricing and contract extension for those builds would be by mutual agreement of the vendor and the County? Yes_____ No_____

An original and one copy of product literature are included? Yes_____ No_____

An original and one copy of warranty information are included for all equipment? Yes_____ No_____

An original and one copy of all required forms are included in the submittal? Yes_____ No_____

Awarded bidder will be required to provide a breakdown of material and labor costs for each section of work (Dump Bodies, Underbody Scrapers, Sanders, etc.)

Portage County is exempt Federal Excise and Wisconsin Sales Taxes, 77.54(9a). WI Stats.
Portage County's CES number is ES 43251.

ATTACHMENT D

STANDARD TERMS AND CONDITIONS

- 1.0 SPECIFICATIONS:** The specifications in this request are the minimum acceptable. When specific manufacturer and model numbers are used, they are to establish a design, type of construction, quality, functional capability and/or performance level desired, unless otherwise specified. When alternates are bid/proposed, they must be identified by manufacturer, stock number, and such other information necessary to establish an acceptable equivalency. The County shall be the sole and final judge of equivalency.
- 2.0 HOW TO AMEND A REQUEST FOR BID, PROPOSAL OR QUOTE:**
- 2.1** Public Works Projects are subject to Wis Stats 66.0901(5): If a person submits a bid or proposal for the performance of public work under any public contract to be let by a municipality and the bidder claims that a mistake, omission or error has been made in preparing the bid, the bidder shall, before the bids are opened, make known the fact that an error, omission or mistake has been made. If the bidder makes this fact known, the bid shall be returned to the bidder unopened and the bidder may not bid upon the public contract unless it is re-advertised and relet upon the re-advertisement. If a bidder makes an error, omission or mistake and discovers it after the bids are opened, the bidder shall immediately and without delay give written notice and make known the fact of the mistake, omission or error which has been committed and submit to the municipality clear and satisfactory evidence of the mistake, omission or error and that it was not caused by any careless act or omission on the bidder's part in the exercise of ordinary care in examining the plans or specifications and in conforming with the provisions of this section. If the discovery and notice of a mistake, omission or error causes a forfeiture, the bidder may not recover the moneys or certified check forfeited as liquidated damages unless it is proven before a court of competent jurisdiction in an action brought for the recovery of the amount forfeited, that in making the mistake, error or omission the bidder was free from carelessness, negligence or inexcusable neglect.
- 2.2** Non-Public Work Projects: After a Request for Bid/Proposal/Quote has been filed with the Portage County Purchasing Department, the responder may submit an amended response BEFORE THE DUE DATE AND TIME set in the request. All the conditions and provisions of the original Bid/Proposal/Quote will be in effect. No submittals or amendments will be accepted after the due date and time of the request. This does not preclude the County from requesting additional information and/or clarification.
- 3.0 DEVIATIONS AND EXCEPTIONS:** Deviations and exceptions from original text, terms, conditions, or specifications shall be described fully, on the bidder's/proposer's letterhead, signed, and attached to the request. In the absence of such statement, the bid/proposal shall be accepted as in strict compliance with all terms, conditions, and specifications and the bidders/proposers shall be held liable.
- 4.0 QUALITY:** Unless otherwise indicated in the request, all material shall be new, newest model year, and free from defects. Items which are used, demonstrators, obsolete, seconds, or which have been discontinued are unacceptable without prior written approval by the County.
- 5.0 QUANTITIES:** The quantities shown on this request are based on estimated needs. The County reserves the right to increase or decrease quantities to meet actual needs.
- 6.0 DELIVERY:** Deliveries shall be F.O.B. destination freight prepaid and included unless otherwise specified.
- 7.0 PRICING AND DISCOUNT:** The County qualifies for governmental discounts. Unit prices shall reflect these discounts.
- 7.1** Unit prices shown on the bid/proposal or contract shall be the price per unit of sale (e.g., gal., cs., doz., ea.) as stated on the request or contract. For any given item, the quantity multiplied by the unit price shall establish the extended price; the unit price shall govern in the bid/proposal evaluation.
- 7.2** Prices established in continuing agreements and term contracts may be lowered due to general market conditions.

- 8.0 RESPONSES TO REMAIN OPEN:** Responses must remain open and will be deemed to be open and subject to acceptance until awarding of the bid/proposal is finalized, or a minimum of sixty (60) days unless otherwise specified.
- 9.0 ACCEPTANCE-REJECTION:** The County reserves the right to accept or reject any or all bids/proposals, to waive any technicality in any bid/proposal submitted, request clarification of any bid/proposal, award a bid/proposal that is not the lowest price, and to accept any part of a bid/proposal as deemed to be in the best interests of the County.
- 10.0 GUARANTEED DELIVERY:** Failure of the Contractor to adhere to delivery schedules as specified or to promptly replace rejected materials shall render the Contractor liable for all costs in excess of the contract price when alternate procurement is necessary. Excess costs shall include the administrative costs and other costs attributable to the delay.
- 11.0 CONTRACT AND EXECUTION OF CONTRACT:** Unless otherwise specified in the bid/proposal, the successful responder agrees to enter into a contract, a copy of which will be on file in the office of the Portage County Purchasing Department. Contractor shall and will well and truly execute and perform this contract under the terms applicable to the satisfaction of the County, and shall promptly make payment to each and every person or party entitled thereto of all the claims for work or labor performed and materials furnished in the performance of this contract.
- 12.0 ENTIRE AGREEMENT:** These Standard Terms and Conditions shall apply to any contract or order awarded as a result of this request except where special requirements are stated elsewhere in the request; in such cases, the special requirements shall apply. Further, the written contract and/or order with referenced parts and attachments shall constitute the entire agreement and no other terms and conditions in any document, acceptance, or acknowledgment shall be effective or binding unless expressly agreed to in writing by the County.
- 13.0 APPLICABLE LAW AND COMPLIANCE:** This contract shall be governed under the laws of the State of Wisconsin. The Contractor shall at all times comply with and observe all federal and state laws, local laws, ordinances, and regulations which are in effect during the period of this contract and which in any manner affect the work or its conduct. The County reserves the right to cancel this contract if the contractor fails to follow the requirements of s. 77.66, Wis. Stats., and related statutes regarding certification for collection of sales and use tax. The County also reserves the right to cancel this contract with any state or federally debarred contractor or a contractor that is presently identified on the list of parties excluded from federal procurement and non-procurement contracts.
- 14.0 LICENSES AND PERMITS:** Contractor shall have and/or provide any and all licenses and permits required to perform the work specified and furnish proof of such licensing authorization and permits with their bids if required.
- 15.0 ASSIGNMENT:** No right or duty in whole or in part of the Contractor under this contract may be assigned or delegated without the prior written consent of the County.
- 16.0 NONEXCLUSIVE CONTRACT:** Unless otherwise stated, the County reserves the right to purchase work or materials outside of this contract.
- 17.0 NONDISCRIMINATION & AFFIRMATIVE ACTION:** In connection with the performance of work under this contract, the Contractor agrees not to discriminate against any employee or applicant for employment because of age, race, religion, color, handicap, sex, physical condition, developmental disability as defined in s. 51.01(5), Wis. Stats., sexual orientation, gender identity and gender expression, or national origin. This provision 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.
- 18.0 INDEPENDENT CAPACITY:** The parties hereto agree that the contractor, its officers, agents, and employees, in the performance of this agreement shall act in the capacity of an independent contractor and not as an officer, employee, or agent of the County. The contractor agrees to take such steps as may be necessary to ensure that each subcontractor of the contractor will be deemed to be an independent contractor and will not be considered or permitted to be an agent, servant, joint venturer, or partner of the County.

- 19.0 SAFETY REQUIREMENTS:** All materials, equipment, and supplies provided to the County must comply fully with all safety requirements as set forth by the Wisconsin Administrative Code and all applicable OSHA Standards.
- 20.0 WARRANTY:** Unless otherwise specifically stated, equipment purchased as a result of this request shall be warranted against defects by the Contractor for one (1) year from date of receipt. The equipment manufacturer's standard warranty shall apply as a minimum and must be honored by the Contractor.
- 21.0 INSURANCE RESPONSIBILITY:** If insurance is required, satisfactory proof of the existence and carriage of such insurance of the kinds and limits specified will be required.
- 22.0 CANCELLATION:** The County reserves the right to cancel any contract in whole or in part without penalty due to non-appropriation of funds or for failure of the contractor to comply with terms, conditions, and specifications of this contract.
- 23.0 VENDOR TAX DELINQUENCY:** Vendors who have a delinquent Portage County tax liability may have their payments offset by the County.
- 24.0 OPEN RECORDS:** Both parties understand that the County is bound by the Wisconsin Public Records Law, and as such, responses and contracts are subject to and conditioned on the provisions of the law. Contractor acknowledges that it is obligated to assist the County in retaining and producing records that are subject to Wisconsin Public Records Law, and that the failure to do so shall constitute a material breach of the contract, and that the Contractor must defend and hold the County harmless from liability under that law. Except as otherwise authorized, those records shall be maintained for a period of seven (7) years after receipt of final payment under the contract.
- 25.0 MATERIAL SAFETY DATA SHEET:** If any item(s) on an order(s) resulting from this award(s) is a hazardous chemical, as defined under 29CFR 1910.1200, the Contractor shall provide one (1) copy of a Material Safety Data Sheet for each item with the shipped container(s) and one (1) copy with the invoice(s).
- 26.0 ADVERTISING AND NEWS RELEASES:** Reference to or use of the County, any of its departments, officials, or employees, for commercial promotion is prohibited. News releases pertaining to this procurement shall not be made without prior approval of the County. Release of broadcast e-mails pertaining to this procurement shall not be made without prior written authorization of the County.
- 27.0 HOLD HARMLESS:** The Contractor will indemnify, pay the cost of defense including attorney's fees, and save harmless the County and all of its officers, agents and employees from all suits, actions, or claims of any character directly related to any injuries or damages to any persons or property resulting from the operations of the contractor, or of any of its contractors, in prosecuting work under this agreement.
- 28.0 FOREIGN CORPORATION:** A foreign corporation (any corporation other than a Wisconsin corporation) which becomes a party to this contract is required to conform to all the requirements of Chapter 180, Wis. Stats., relating to a foreign corporation and must possess a certificate of authority from the Wisconsin Department of Financial Institutions, unless the corporation is transacting business in interstate commerce or is otherwise exempt from the requirement of obtaining a certificate of authority. Any foreign corporation which desires to apply for a certificate of authority should contact the Department of Financial Institutions, Division of Corporation, P. O. Box 7846, Madison, WI 53707-7846; telephone (608) 261-7577.
- 29.0 FORCE MAJEURE:** Neither party shall be in default by reason of any failure in performance of this contract in accordance with reasonable control and without fault or negligence on their part. Such causes may include, but are not restricted to, acts of nature or the public enemy, acts of the government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather, but in every case the failure to perform such must be beyond the reasonable control and without the fault or negligence of the party.

ATTACHMENT E

Patrol Truck Conversion Specifications

PROVIDE AND INSTALL THREE(3) 2023 DUMP BODIES with HYDRAULICS, Provide and Install (3) TAILGATE SANDERS, Provide and Install (3) underbody scrapers Side plates will be provided by Portage County Highway. ITEMS PROVIDED AND INSTALLED BY PORTAGE COUNTY WILL BE (3) BURKE REVERSIBLE PLOWS, (3) BURKE RIGHT HAND WINGS, (3) BURKE LEFT HAND WING and (3) PLOW QUICK HITCHES. THE TRUCK BUILDER WILL ALSO SUPPLY AND INSTALL ALL NECESSARY HARDWARE, HYDRAULICS, AND ELECTRICAL EQUIPMENT NECESSARY TO OPERATE THE ABOVE EQUIPMENT.

Check with an 'X' if specs can be met. List any or all deviations or extra costs beyond shown bid price

GENERAL DESCRIPTION

Bodies with hydraulics and quick hitches shall be mounted on three County owned 2023 Western Star model 47 X patrol trucks G.V.W. of 66,000 pounds, wheelbase 230 inches and a C.T. of 148 inches with an O.A.L. of 348 inches to the front of the frame extensions. Front axle and suspension rating of 20,000 pounds with rear axle and suspension rating of 46,000 pounds. Frame G.V.W. rating of 66,000 pounds, 24 inch integral front frame extension with 23.50 S.M., 120,000 P.S.I. single channel bolted frame.

All stainless steel welds must be weld slag free. Bidders will provide CAD drawings of all equipment added onto the chassis. Upon completion, the successful equipment vendor will provide parts lists and equipment manual for all installed equipment.

(2) Trucks

1. Reversible plow
2. Right hand mid mount wing
3. Left Hand mid mount Wing
4. Underbody Scraper
5. Sander unit with dual spinners and pre-wet

(1) Truck

1. Reversible plow
2. Right hand mid mount wing
3. Left Hand mid mount Wing
4. Underbody Scraper
5. Sander unit with dual spinners (To be provided by Portage County Highway)
6. Poly fenders (To be provided by Portage County Highway)

ENGINE

6-cylinder Electronic diesel, 410 H.P. Torque 1,650

TRANSMISSION

Allison Automatic MD All World 4500 RDS, 6-speed Electronic.

TWO (2) - DUMP BOX BODIES

1. Dump box bodies shall be a smooth side Jay craft Ultra SS or equal
2. 14 foot in length, box height 36 inches and tailgate, all stainless steel Grade 201 except for floor ¼ inch 450 BNE steel and lower I-beams long-members.
3. 10-11 cubic yard dump box bodies to be heavy-duty municipal type body construction.
4. Dump box body sized for the truck with wheel base 230 inches and a C.T. of 148 inches. Box to truck cab clearance to be 6 inches. Sides to be 7-gauge 201 stainless steel with dirt shedding boxed top rails.
5. Rear corner bolsters post 7-gauge stainless steel 14 inch width x 6 inch deep to accommodate rear lights
6. Grip strut walk rails on both sides stainless steel.
7. Floor to be ¼ inch 450 BHN steel with dirt shedding 9 inch radius.
8. Front bulkhead 7-gauge 201 stainless steel with intermediate brace.
9. Tailgate inner shell 1/4 inch 450 BHN with 7-gauge 201 stainless steel outer shell with horizontal bracing only (no vertical bracing) double acting design with 54 inch long chains and 2 sets of banjo eyes and full width lower tailgate pin, tailgate to be 36 inches in height.
10. Tailgate double acting hardware to be heavy duty cast stainless steel on upper hinges and lower to be stainless steel.
11. Tailgate air trip cylinder with electric over air controls air solenoid (Velvac 320178) to mount by truck cab in a sealed box. Switch to be mounted on dash and labeled (Tailgate Air Trip)
12. Box sides and tailgate to be 36 inches high and front shield to be approximately 64 inches in height.
13. Rear pillars to have 3 oval lights cut into both sides. Rear tailgate to have sealed stainless steel 6-inch x 42-inch with cut outs for 5 oval lights on top part of tailgate. Top to bottom, the lights are: strobe, brake, reverse.
14. Cross memberless design using 10-inch I-Beams long members and full width rear apron.
15. Lubricated front and rear cross shafts.
16. D-rings welded inside of body on all 4 corners and the top inside center of the tailgate for lifting.
17. Dump bodies to be continuously welded no skip welds.
18. Under structure I-Beam to have 4 hole openings for service work straps size of hole 3 inch x 6 inch with steel tube. (2 in front and 2 towards rear)

19. Hydraulic fittings through rear corner post for sander hookup, no mud flap brackets on body.

20. Two heavy duty box prop rods positioned to hold the box 168 inches from floor to upper most part of box.

21. Wire hold down for beacon and rear sander lights and hydraulic line hold down to be stainless steel ¼ inch round bar welded to bottom of box and up the front to beacon light. Running wires inside of the box tubes will not be accepted.

22. Cab shield constructed of 7 gauge and shall extend over the brine tank area with a minimum 8 inches clearance to the cab.

23. On top of cab shield 2 stainless steel brackets positioned at the outer most side edge for beacon mounting.

24. Steps and handles positioned to allow safe movement from the cab to the dump box.

25. I-Beam to have 6 inch x ¼ inch stainless steel tube through for running hoses and electrical wiring welded to rear apron.

TOOL BOX

1. To be constructed in front of box body.

2. Size to be 22 inches wide, 23 inches high in front and tapering off to 18 inches high at rear of tool box.

3. Tool box running full width of front of dump box with two door openings.

4. Side door opening to be 15 ½ inches wide and 13 inches high.

5. Tool box doors to overlap opening 1 inch with weather seal and stainless steel hinges and locking latches.

6. Top and back side of tool box to have one piece 1/4 inch 450 BHN steel.

7. The tool box shall have a minimum of 6 1/4" drain holes drilled in the bottom.

HOIST

1. Hoist shall be a Jay craft JU90 or equal.

2. Hoist to be double-acting, minimum class NTEA-80.

3. Sub frame shall extend 28 inches beyond front of body

4. Full sub frame all welded 6 inch channel or tubing ¼ inch thick, longitude 4-inch channel ¼ inch thick on cross members.

5. Heavy duty steel torque arms.

6. Dual steel I-Beam lift arms

7. Hoist minimum lifting capacity 54,000 pounds, dump angle 50 degrees.

8. Cylinder bore 8 inches, stroke 24 - 26 inches, piston rod diameter 2.25 - 2.75 inches.

9. Rear hinge pins to be 40 ton type pad mount to box pin to be removable with bolt and must be grease able.

10. All weight bearing and hinge points to be grease able.

11. Single point lift is not acceptable.

HYDRAULIC OIL RESERVOIR

1. 30 gallon oil reservoir built and mounted behind the back of the cab
2. Constructed of minimum ¼ inch Stainless steel with 1/8 to 1/4 overlap on all welded seams
3. Oil reservoir to be bolted to sub-frame to prevent cracking.
5. Separate return port for control drains.
6. Magnetic drain and suction screen.
7. Clean out cover over suction screen.
8. High pressure to have restrictor gauge in filter housing.
9. Tank vent system must not leak when box comes down fast.
10. Sight gauge must be visible area.
11. Filler tube must be accessible when box is in lowered position.
12. Low oil sensor with a warning device in the cab to notify operator when the oil level drops to 25% total capacity of the reservoir.
13. Two inch NPT suction with 100 mesh screen type filter, minimum of 1 inch off the bottom , bottom suction port not allowed.
14. Tank, plumbing and filters must be leak tested upon assembly.
15. Tank filler / breather shall be pressurized (3 psi min) to help keep moisture from entering the oil reservoir. (Part # 05052950)

HIGH PRESSURE FILTER

1. Filter plumbed between hydraulic pump and control valve assembly.
2. Minimum 25 micron filter rated for 6,000 PSI
3. Filter to be accessible for maintenance.
4. Filter restrictor indicator on filter housing.

RETURN FILTER

1. To be mounted on a minimum 3/8" stainless steel mounting flange that is welded to the top of the tank. Mounting directly to the tank is not allowed.
2. Filter must be a Minimum 80 GPM, 10 micron Aquazorb filter (Part # 1090369).
3. Filter bypass gauge mounted on filter housing.

HYDRAULIC HOSES, FITTING, GAUGES

1. Two inch shut-off ball valve mounted at tank suction line.
2. Two inch suction line tank to pump.
3. Pressure hose from pump to valve one inch with 12-volt electric, 6,000 PSI shut off ball valve at pump located with in 12 inches of the pump
4. Return lines from valves 1 inch high pressure.
5. All high pressure hoses to be Gates brand with Mega Tuff covering two wire braid with the following minimum pressure ratings: 1" – 2500 psi, ¾" – 3500 psi, ½" – 4300 psi, 3/8" – 5000 psi, ¼" – 6000psi. For 4 wire hoses Gates Brand Mega spiral with Mega Tuff covering 1"- 4000 psi. No substitutions.
6. All fittings to be J.I.C. or O ring boss type, no pipe fittings.

7. All hydraulic lines to be ran neat not to come in contact with moving parts, will have hose holder mounts when needed.
8. Lines to have hose guard when needed and all lines shall only run with other hydraulic lines, no electrical wires ran with hydraulic lines.
9. Digital/electric gauge mounted in cab dash for 5,000 PSI hydraulic pressure.

HYDRAULIC PUMP

1. Direct mounted to Transmission constant mesh PTO driven with wet spline.
2. Axle piston pressure and flow compensated load-sensing type.
3. Displacement of 5.61 cubic inches per revolutions at maximum stroke.
4. 23.7 GPM at 1,000 RPM engine speed and 4,800 PSI continuous pressure.
5. Two inch suction line minimum with ½ inch drain line back to reservoir.
6. Pump mounting flange to be 4 bolt heavy duty type with spline to be DIN 14.8 x 32 x 35 spline, lighter splines not accepted.
7. PTO to run pump at 103% of engine speed.
8. External brackets needed to mount pump on transmission Must be discussed with County.
9. P.T.O. lube line to have stainless steel fittings and ends

CONTROL CENTER GENERAL

1. Control system must be a Force model series 6100.
2. Control Center must be an armrest-style, pedestal mounted 26 to 28 inches from floor
3. Integral center for controlling all hydraulic functions including all automated salt controls.
4. The Center must have changeable nomenclatures and be fully back lit with solid state LED's.
5. The unit must be supplied with separate easy to service feedback connection, speedometer connection, valve control connection and main power connection.
6. Four solid state warning light options illuminated in red for low oil, body up, and filter bypass must also be supplied.
7. The Center must also be supplied with color coded wiring throughout.
8. System to have individual joysticks for each function as described below, and five (5) rocker switches. The order of functions for switches and joy sticks will be provided by Portage County
9. Manuals, service literature, driver and service training must be supplied at no charge.

CONTROL CENTER (SPREADER CONTROLS)

The electronic spreader control shall be designed for precise, Closed Loop operation of material application. The electronic spreader control shall have a battery back-up to protect memory functions. The unit must be protected from reverse polarity and over voltage, Protected by five amp circuit breakers and circuit boards to be conformal coated. All incandescent lighting circuits need to be completed with 50 amp relays and circuit breakers. The spreader control is to be capable of self-diagnostics for system errors and corrections procedures.

The control unit must have password protection to prevent unauthorized use of set up, complete operation, and calibration parameters. The control unit shall be capable of self-calibration of auger/conveyor feed rates and require no additional time pieced to calibrate. Programming shall allow for blast function to be set one of three ways: momentary, timed, or by distance traveled. The unit must also be capable of spreading up to three different materials and ten rate settings per material. The unit must provide three operational modes, manual, (open loop ground speed only) and closed loop (ground speed with auger feedback).

Programming for a second winter/summer mode switch to be connected to a controller input that would disable the broom in the winter

Provide 1 wireless ARC temp sensor per truck (Part number 1117643)

A ten inch diagonal LCD screen shall inform the operator of spread rate information (US or metric) displays of operating modes and calibration parameters. The unit must be of displaying logged spread run information for intermediate reference and be able to download data to a serial printer PC computer when complete data is required. The unit will provide real time data. The unit must provide for five current compensated PWM output frequency between 40-150 Hz. In addition the unit must provide rotary spinner speed adjustment, standby (pass) feature, stationary unload and auger reverse mode. A programmable jump start to provide immediate material flow at start up. The unit must be programmable to interface with a wireless road temperature sensors, direct liquid application system, and precise MRM AVL/ data management system.

CONTROL CENTER (VALVE CONTROLS)

1. Valve control joysticks must be fully proportional.
 2. Speed adjustments requiring a computer are not acceptable.
 3. The valve control for dump body shall single axis with push-button inter-lock.
 4. The valve controls for snow plow and wing shall be a dual axis.
 5. The valve control for left and right wing shall be dual axis for toe and heel with push button to switch heel function to control push arm when pressed.
 6. The valve controls for scraper raise and turn shall be dual axis.
 7. The valve controls for scraper left oscillate and scraper right oscillate shall be from on-off-on momentary switches.
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HYDRAULIC VALVES

1. There will be two valve banks.
2. Hydraulic valves to be a modulator manifold design.
3. Each function requires an individual manifold stacked together to form the manifold base.
4. Control valves to be pulse-with modulated, proportionally controlled.
5. Each hydraulic valve segment shall be individually mounted to the manifold base assembly and be serviceable without removing any hydraulic hoses or any other valve segments.
6. All valve segments shall have heavy duty continuous duty coils and connections.
7. Coils to operate on 12 volts and require a maximum of 1400 Mille-amp.
8. Each valve segment shall be equipped with a rack and pinion manual override except for auger and spare sections.
9. Valve sections must have adjustable stroke limiter flow controls for each function.
10. Twelve volt, 20 amp. pulse with modulated amplifier assembly for electric pre-wet pump.
11. Broom section and hydraulic cooling fan to be controlled by switch #4 in the front of the Ultra controller.

VALVE 1

1. Hoist: 40 G.P.M. double acting with down relief at 500 P.S.I.
2. Auger: Reversible 15 g.p.m. fully proportional. The auger shall have priority over the hoist and this priority option shall be reversible if needed.
3. Spinner: 5 g.p.m. fully proportional for dual spinners.
4. Left Wing Push Arm: double acting with 500 P.S.I. relief with a wing lock to prevent wings from pushing out or settling
5. Left Wing Toe: Zero leak single acting.
6. Left Wing Heel: Double acting motor spool with 1000 P.S.I. upside and down side relief. Also shall include a wing lock to prevent wings from settling
7. Broom: Double acting 21 gpm motor spool

VALVE 2

1. Right Wing Push Arm: double acting with 500 P.S.I. relief with a wing lock to prevent wings from pushing out or settling
2. Right Wing Toe: Zero leak single acting.
3. Right Wing Heel: Double acting motor spool with 1000 P.S.I. upside and down side relief. Also shall include a wing lock to prevent wings from settling
4. Scraper Raise: double acting with 400 P.S.I. down pressure limiter and relief.
5. Scraper Turn: double acting.

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The valve assembly shall be mounted in a weather-tight enclosure. The valve enclosure shall be fabricated of 10-gauge 201 stainless steel. The cover shall be held to the enclosure by four heavy rubber latches (one on each side). All plumbing shall be external, directly into the bottom of the valve base (no hydraulic plumbing in the enclosures). When the cover is removed the valve must be exposed on three sides for easy service. Valve banks are to be located on the middle right and left side of truck and should be discussed with Portage County prior to installation. All mounting hardware to be stainless steel.

[illegible]

14. The tailgate and sides of dump body will have the red and white reflective tape that is NHTSA and FMVSS approved with location in compliance with State and Federal guidelines plus additional stripes of above reflective tape along both sides and the tail gate of the box, and one stripe along the top side of the dump box.

15. All lights, tape and mounting brackets to be done per Portage County's specifications.

16. One wing light per wing mounted on the cab door directed to the wing .Lights shall be Grote Brite Zone work lamps (Part # BZ101-5 9V-32V)

Three (3) REVERSIBLE PLOWS PROVIDED BY PORTAGE COUNTY

It is the successful bidder's responsibility to provide all necessary hardware, electrical connections, hydraulic connections (S45-4P and S71-4P quick couplers will only be accepted), and control connections to Burke reversible plow provided by Portage County to make them functional.

M-B Power Broom (Owned by Portage County)

It is the successful bidder's responsibility to provide all necessary hardware, electrical, and hydraulics to operate Portage Counties MB Truck mounted power broom.

Provide all Electrical connections for the brooms hydraulic cooling fan and cooler with a on and off switch in the cab (#4 on the force controller). Note: this is for just the controls the cooler and 20 amp fan are part of the broom attachment.

Hydraulic connections for broom rotation (3/4 inch pressure feed and 3/4 inch return). 3/4" quick couplers will be mounted to the right side of the plow lift ram at the front of the truck.

The Brooms side to side rotate will use the plow reversing quick couplers .

The Brooms water connection will be completed by Portage County once the trucks are complete.

Three (3) Right Hand and (3) Left Hand Mid Mount Wings Provided By Portage County

It is the successful bidder's responsibility to provide all necessary hardware, electrical connections, hydraulic connections, and control connections to Burke wings provided by Portage County to make them functional.

Three (3) SNOW DEFLECTORS (Provided by Portage County)

Plow is to be equipped with a 3/8 inch x 24 inch vertical rubber snow deflector for Plows

Supply and Install (3) HEAVY-DUTY UNDERBODY SCRAPERS

Scrapers shall be heavy-duty Henke year around underbody scrapers or equal. Scrapers shall be capable of handling snow pack, ice and a higher volume of snow at various speeds in the winter and be able to do gravel shoulder maintenance in the summer. (The side plates will be supplied by Portage County and it shall be the responsibility of the successful vendor to mount and supply all necessary hardware to make the underbody scraper functional).

SPECIFICATION

1. Underbody length of 11 feet.
2. Underbody height of 20 inches.
3. Moldboards to have minimum thickness of one inch constructed of heat treated carbon steel.
4. Mold Board shall accommodate carbide cutting edges 5/8 x 6 inch ASSHO top punched double bevel. Trucks shall be bid with no underbody blades.
5. Cutting swath at 30 degrees 9 foot 6 inch.
6. Provide an adjustable down pressure relief valve on the blade curl of from 200psi to 500 psi or greater on the B port.
7. Six-way design, power up and down, power right and left rotation, and power tilt left and right
8. Under bodies shall have Stop blocks on both sides to prevent truck or accessories from being hit by the blade during rotation but must have the accountability to work with the right and left wings. The underbody shall be mounted with the capability of a 40 degree working angle. Final mounting and angles must be discussed with Portage County Highway.
9. A 10"x10" piece of anti-slip tread plate shall be welded to the drives side of the of the underbodies moldboard to help prevent operators from slipping while entering and exiting the truck.

CIRCLE

1. Circle shall be a minimum of one inch thick material without pin notches.
2. Circle hold down shall have 3/8 inch thick plastic (UHMW) wear strips.
3. Circle shall turn with two (2) four inch minimum double acting cylinders with nitride rods.
4. Circle shall have a 5 inch removable center pin that is grease able.

PROVIDE AND INSTALL Two (2) 201 STAINLESS STEEL TAILGATE SANDERS

GENERAL

The under tailgate spreader required in these specifications shall be an Swenson SBD-9SS # 201 or equal hydraulic operated unit and shall consist of a steel through, 9 inch diameter conveyor, spinner disc, and power drive. The spreader shall be capable of evenly spreading or centerline windrowing various types of granular material and/or chemicals for ice control such as sand, salt, calcium chloride, or mixtures up to a width of forty feet. The unit shall also be capable of discharging up to $\frac{3}{4}$ inch aggregate for road shoulder berming applications. The unit shall be capable of discharging from either right or left side.

HOPPER

One piece $\frac{1}{4}$ inch 316 stainless steel endplates shall be fully welded to 7 gauge 316 stainless steel formed front and rear through panels. The unit will have a 7 gauge 316 stainless steel, 5 point hinged **full bottom** clean out door (spinner assembly shall not be mounted to bottom clean out door). The hinged bottom shall swing open towards the rear wheels of the truck and will be held closed by two heavy duty locking mechanisms with a lift handles. The unit shall have a discharge opening at each end. The anti-flow plates over each point of discharge will be 10 gauge 316 stainless steel and will be removable without using tools. The 7 gauge 316 stainless steel combination cover and back plate will be one piece 270 degree hinged integral with a full length $\frac{3}{4}$ stainless steel rod as part of the unit. The cover will be capable of being locked in either raised or lowered position by a single latch on each side of the cover. To reduce the potential for material bridging, the inside width of trough will be a minimum of 12 inches. Fastening with a bolt and nut is preferred over drilling and tapping.

AUGER MECHANISM

A 512 PPR electrical feedback sensor with stainless steel protection cover shall be installed on bearing end.

SPINNER

The spinner assembly will be linked to the truck frame with a universally mounted parallel arm to keep the spinner horizontal to the road when box is raised. An integral spinner shield will be provided to prevent material from striking the back of truck. An adjustable baffle to control spreader direction for each spinner assembly. Spinner assembly must be bolted through holes not machined slots using all S.S. Hardware not welded to allow easy removal. The 18" spinner shall be at a height between 24" and 26"s .

TAILGATE SIDE SHIELDS

Tail gate shield to be 201 stainless-steel must be easily removable. Must be designed not spill material around spreader. Shields must be made to allow the tailgate to open and close easily with the side shields falling into place.

PROVIDE AND INSTALL (3)PRE-WET SYSTEMS AND HARDWARE

The stainless steel pre-wet tank made from 316 stainless steel with a minimum thickness 3/16", shall be mounted ahead of body and supported by truck frame all welded tank seams shall have a 1/8 to 1/4 overlap. The tank shall be mounted on rubber with upright spring mounted pull down brackets with stainless steel mounting hardware and cannot be higher than the bottom of the rear cab window. The tank shall be approximately 250 gallon capacity with baffles, bulkhead fill combination bottom drain, full length sight gauge and 2 inch overflow protection. The tank will have an enclosure with access door on driver's side to house a Nor Wesco #61459 T-Line strainer, **Flo Jet # R8501134A** Diaphragm pump, bulk head mounted Directo Valve #AA144P-1-3, flow meter and all other hardware needed to make system functional for pumping saturated liquid solutions of both sodium chloride and calcium chloride. The enclosures door shall have a stop welded on the back side to prevent the door for hitting the cab of the truck. The pump shall be mounted horizontally. A corrosion resistant pressure valve shall be provided to prevent siphoning from the tank through the spray nozzles when pump is not operating. Sander shall have a 7-8 inch square discharge opening with one check valve and brass spray nozzle (Part Number# TPU5040CD-SS) positioned to spray into the auger trough for optimum wetting of material above each spinner. All connecting fittings shall be constructed of brass with a 1 1/2 inch PVC ball valve and male quick disconnect for filling tank. Quick disconnect must be positioned to allow easy access and connection of the connecting female adaptor. A 1" stainless pipe nipple shall be welded on the top of the tank with a stainless steel threaded cap.

REAR FENDERS

Lifetime poly fenders with stainless steel mounting brackets Mounted with all stainless steel hardware.

PINTLE HITCH

The rear pintle hitch plate will be installed by Portage County prior to the chassis delivery.

REAR AIR FOILS

Two separate air foils to keep snow off rear lights.

One 48 inch center mounted air foil mounted over Strobe lights

Foils shall be made out of stainless steel.

Foils must be removable using all stainless steel hardware.

Prior to building, the specific design will be discussed with the Hwy Dept. Shop Supervisor (Prints will be provided)

TIRE CHAINS

Insta-chain brand automatic tire chains or equal.

Mounted in rear of rear tires.

Electrical over air to control with safety trip in cab.

Tire Chains to be installed and setup up for seasonal removal

PAINT

The surface of plows, wings, dump boxes, and sanders shall be shot blasted and primed with a zinc chromate type primer or equal. The color coat will be a polyurethane type enamel to match color code of truck. The paint job must be warranted against flake off and rust for a minimum of 5 years. The undercarriage of body is to be painted in black enamel and undercoated to include cab, chassis and entire dump body. The hitches and wing posts are to be primed and painted urethane enamel black. All equipment shall be shot blasted prior to painting.

Rust proof Truck and equipment

SPECIAL NOTE

Installation of dump bodies; hydraulics, wing posts, underbodies, snow deflectors, and air foils shall be discussed with Portage County's shop supervisor prior to any installation. At this time a to scale CAD drawing of the truck and equipment will be provided by winning snow and ice bidder. All bodies will be Rockwell tested for tensile and Brinell strength. Any deviation from specifications shall be requested in writing via email to Karen Kluck, Procurement Specialist, by TBD and approved via written addendum.
kluckk@co.portage.wi.us

WARRANTY

1. Minimum two year warranty on all snow and ice equipment except wear items.
2. Minimum three year warranty on hydraulics and hydraulic controls and electronic controls for spreader.
3. All work to be performed at Portage County Highway Department or the body builder must pick up and deliver patrol truck to and from Portage County Highway Department. Warranty work will be completed within 48 hours of notice on all issues unless approved with Portage County Shop Superintendent.
4. Paint warranty against rust and flaking minimum 5 years

TAXES

No Federal or State taxes are to be included in bid.

DELIVERY

All transportation expense for delivery, mounting, warranty, etc., is the responsibility of the Contractor. Any items omitted, that are clearly necessary for the satisfactory performance of the proposed equipment even though not directly specified, shall be considered part of the bid.

All service, shop and operator manuals for the dump bodies, hydraulics, plows, wings, quick hitches and sanders are to be included in bid FOB Portage County Highway Department, 800 Plover Road, Plover WI 54467. The Portage County Highway Committee reserves the right to reject any or all proposals or parts thereof and to waive any technicality in any bid submitted and to make such awards as they deem to be most advantageous to Portage County.

Body company is responsible for ensuring equipment meets all specifications as published prior to delivery.

A complete build parts list must be provided by the builder including a description, quantity, and part numbers at the time of delivery.

INVOICING	
The following items must be itemized when preparing the final invoice at the completion of the build.	
1. Body	
2. Sander	
3. Under Body	
4. Force controls and components	
5. Other	
6. Labor	
7. Total	

All model and serial number clearly separated by truck for the following items. Body, hoist, PTO, Pump, sander, and scraper

ATTACHMENT F

Quad Conversion Specifications

Portage County Truck 90 Tri-axle to Quad Conversion	Specs
Check with an 'X' if specs can be met. List any or all deviations or extra costs beyond shown bid price	
Cab and Chassis	
Install a stainless Steel sun visor on truck 90	
Accessories to be installed	
Aero Electric operated tarp system with asphalt tarp, installed (Controls already installed)	
Mud flaps installed with chrome anti-sail brackets mounted in front of pushers	
Removable rear flaps with storage space permitting	
(1) Rear exterior mounted ladder on the drivers side	
Lighting / Electrical	
All wiring shall be completed with Marine grade wire , Grote Harnesses, and Weather Pak tight enclosed connections. All connections shall be made in a junction box when possible.	
The tailgate and sides of dump body shall have the red and white reflective tape that is NHTSA and FMVSS approved with location in compliance with State and Federal guidelines plus additional stripes of reflective tape along both sides and the tail gate of the box, and one stripe along the top side of the dump box.	
Hitches and Trailing	
(7) pin round trailer plug ran through rear hitch plate in the upper left corner.	
Air glad hands ran to rear hitch plate. (Factory air already to the back of the truck)	
Trailer brake control will be installed by Portage County Highway	
Removable chip bar installed at rear to meet Portage County Highway spec. This will be discussed with the awarded vendor.	
Removable 1" Pintle plate with heavy duty D-rings, air connections, and trailer wiring	
Pintle / hitch plate shall be drilled to Portage Counties spec for pintles hitches. Drawing will be provided to the awarded vendor.	
PAINT	
The surface of the dump box shall be shot blasted and primed with a zinc chromate type primer or approved.	
The color will be a polyurethane type enamel to match the color code of truck. (Omaha Orange)	
All areas of the chassis and frame that were disturbed while completing the body install shall be shot blasted, primed and complete frame shall be painted from cab back. Paint shall be urethane black enamel or equal. This shall also include both hitch plates.	
The complete bottom side of the body including the main beams along with the bottom 12" of each side shall be coated with a heavy duty spray in truck bed liner spray to help protect the body from stone chips.	
Front plow hitch and bumper shall be shot blasted, primed, and painted black in color	

Steerable Pusher Axles	
Relocate the current pusher axle and other equipment to install Portage County supplied tag axle to make truck 90 a quad axle.	
Install the Portage County supplied tag axle to make truck 90 an operating quad axle.	
Hoist / Hydraulics	
Install a new Aluminum slim line hydraulic reservoir behind the cab.	
DUMP BOX BODIES	
Add 12 inches to the rear of truck 90's Stainless Steel dump body.	
The body placement should allow for a minimum of 17" of over hang to allow asphalt and hauling and unloading into Portage Counties paver.	
Grip strut stainless steel walk rails shall be extended as needed on both sides.	
Floor to be ¼ inch 450 BHN steel with dirt shedding 9 inch radius.	
Dump bodies to be continuously welded no skip welds.	
Current prop stands shall be replaced with 2 heavy duty OSHA approved 36"box prop stands.	
An approximant 6"steel top spill extensions shall be added to the top of the dump body. Final measurement shall be discussed with the Portage County Highway's Parts Room and Shop Manager.	
SPECIAL NOTE	
Installation of the dump body, hydraulics, lighting, and all other components shall be discussed with Portage County's Shop Manager prior to any installation (Prebuild meeting). At this time a to scale CAD drawing of the truck and equipment will be provided by winning bidder Any deviation from specifications shall be requested in writing via email.	
Included items	
A complete build parts list including a description, quantity, and part numbers of all added components	
WARRANTY	
Minimum two year warranty on all provided equipment and workmanship except wear items.	
All paint work completed must be warranted against flake off and rust for a minimum of 2 years.	
TAXES	
No Federal or State taxes are to be included in bid.	
DELIVERY	
All transportation expense for delivery, mounting, warranty, etc., is the responsibility of the Contractor. Any items omitted, that are clearly necessary for the satisfactory performance of the proposed equipment even though not directly specified, shall be considered part of the bid.	
The awarded contractor is responsible for ensuring equipment meets all specifications as published in this bid and items discussed during the pre build meeting prior to delivery (Post build inspection).	
INVOICING	

The following items must be itemized when preparing the final invoice at the completion of the build.	
Materials	
Labor	
All model and serial numbers clearly separated for the following items. Body, hoist, PTO, Pump, sander, and scraper	