

Item #8-4B

**City of Carson City
Agenda Report**

Date Submitted: October 27, 2009

Agenda Date Requested: November 5, 2009
Time Requested: Consent

To: Mayor and Supervisors
From: Purchasing & Contracts

Subject Title: Action to authorize public works to utilize RFP HY07-09 for the purchase of Winter Equipment and Supplied Hydraulics through Monroe Truck Equipment; which RFP was approved by Winnebago County Wisconsin Highway Commission; therefore is exempt from competitive bidding pursuant to NRS 332.115 subsection 1(m) and NRS 332.195 providing Carson City's approved funding and purchasing procedures are followed; and to be funded from Street Maintenance Equipment Fund, Water Maintenance Equipment Fund, and Storm Water Maintenance Equipment Fund as provided for in FY 2009/2010. (File No. 0910-106) (*Sandy Scott*)

Staff Summary: Public Works is requesting the purchase of plows, dump body, V-Box sander, hydraulics and miscellaneous equipment to up-fit two International trucks for snow removal and material handling.

Type of Action Requested: (check one)
☐ Resolution ☐ Ordinance
☒ Formal Action/Motion ☐ Other (Specify)

Does This Action Require A Business Impact Statement: ☐ Yes ☒ No

Recommended Board Action: I move to authorize public works to utilize RFP HY07-09 for the purchase of Winter Equipment and Supplied Hydraulics through Monroe Truck Equipment; which RFP was approved by Winnebago County Wisconsin Highway Commission; therefore is exempt from competitive bidding pursuant to NRS 332.115 subsection 1(m) and NRS 332.195 providing Carson City's approved funding and purchasing procedures are followed; and to be funded from Street Maintenance Equipment Fund, Water Maintenance Equipment Fund, and Storm Water Maintenance Equipment Fund as provided for in FY 2009/2010. (File No. 0910-106) (*Sandy Scott*)

Explanation for Recommended Board Action: Pursuant to **NRS 332.115 subsection 1(m) and NRS 332.195**, staff is requesting the Board of Supervisors declare that the contract is not adapted to award by competitive bidding and authorize all city departments to be able to place orders from this contract providing Carson City's approved funding and purchasing procedures are followed.

NRS 332.115 Contracts not adapted to award by competitive bidding; purchase of equipment by local law enforcement agency, response agency or other local governmental agency; purchase of goods commonly used by hospital.

1. Contracts which by their nature are not adapted to award by competitive bidding, including contracts for:

(m) Supplies, materials or equipment that are available pursuant to an agreement with a vendor that has entered into an agreement with the General Services Administration or another governmental agency located within or outside this State; are not subject to the requirements of this chapter for competitive bidding, as determined by the governing body or its authorized representative.

NRS 332.195 Joinder or mutual use of contracts by governmental entities.

1. A governing body or its authorized representative and the State of Nevada may join or use the contracts of local governments located within or outside this State with the authorization of the contracting vendor. The originally contracting local government is not liable for the obligations of the governmental entity which joins or uses the contract.

2. A governing body or its authorized representative may join or use the contracts of the State of Nevada or another state with the authorization of the contracting vendor. The State of Nevada or other state is not liable for the obligations of the local government which joins or uses the contract.

(Added to NRS by 1975, 1539; A 1985, 357; 1999, 1686; 2001, 1320; 2003, 2263; 2005, 2556)

Applicable Statute, Code, Policy, Rule or Regulation: NRS 332.115 subsection 1(m) and NRS 332.195

Fiscal Impact: \$126,900.00

Explanation of Impact: If approved the below listed accounts could be reduced by \$126,900.00

Funding Source: \$13,000.00 520-3502-435-7775 Water Maintenance Equipment; \$53,000.00 256-3038-431-7775 Street Maintenance Equipment; and \$60,900.00 Storm Water Maintenance Equipment Fund

Supporting Material: Authorization letter from Monroe Truck Equipment and RFP# HY07-09

Prepared By: Sandy Scott, Purchasing and Contracts Coordinator

Reviewed By: [Signature]
(Public Works)

Date: 10-27-09

[Signature]
(City Manager)

Date: 10-27-09

[Signature]
(District Attorney)

Date: 10-27-09

[Signature]
(Finance Director)

Date: 10/27/09

Board Action Taken:

Motion: _____

1)	_____	Aye/Nay
2)	_____	_____

(Vote Recorded By)



1051 W. 7th Street • Monroe, WI 53566
800-880-0109 • 608-329-8105 • FAX 608-328-8390
E-mail: snowandicecontrol@monroetruck.com • Website: www.monroetruck.com

August 7, 2009

Darren Selby
Public Works Operations Chief
Carson City Nevada Public Works Department
3505 Butti Way
Carson City, NV 89701-3498

Darren,

Monroe Truck Equipment hereby authorizes the city of Carson City NV to purchase through the Winnebago County Wisconsin Highway Commission RFP# HY07-09 dated December 30, 2008. Contract equipment includes dump body, snow plow, wing plow, sander body, hydraulics and controls. Equipment to be installed on customer supplied chassis.

Sincerely

Dennis Koering
Regional Sales Manager
Monroe Truck Equipment



Reversible & One-way Snowplows • Airport Snowplow • Heavy Duty Patrol Wing
Heavy Duty Benching Wing • Monroe Underbody Scraper • Heavy Duty V-box Spreader
Under Tailgate Spreader • Pickup V-box Spreader • Replacement Tailgate Spreader
Anti-Icing/De-icing & Vegetation Sprayer • Construction Attachments



WINNEBAGO COUNTY HIGHWAY COMMISSION

RFP# HY07-09 FOR

WINTER EQUIPMENT AND SUPPLIED HYDRAULICS INSTALLED ON TWO (2) TANDEM AXLE CHASSIS

We, the undersigned, propose to furnish the Winnebago County Highway Commission the following winter equipment as herein described for the following amount:

\$ 98,163.00 EACH winter equipment and supplied hydraulic package installed on tandem truck chassis. Total for two \$ 203,413.00 (98,163 x 2 = 196,326 + 7,087 for extra plow)

\$ _____ EACH winter equipment and supplied hydraulic package installed on tandem truck chassis with Option #1. Total for two \$ _____

Equipment for Two Tandem Axle Truck Chassis:

Two Dump Boxes – Make: Cyrtel Model: Select

Two Snow Plows – Make: Monroe Model: MP48R12-ISC.T

Two Right Snow Wings – Make: Monroe Model: 1DDF-FT

Two Spreaders – Make: Monroe Model: MS-966-DW-DD

Hydraulic System Controls – Make: Monroe I-grip

Firm Delivery Date Equip 90 days ARD, up to 75 days after equip & chassis arrival (within 75 days of chassis delivery) F.O.B. Destination, Winnebago County Highway Commission, 901 W. County Rd. Y, Oshkosh, WI 54901

Must include literature and manufacturer's specifications list with proposal. **Invoice must provide cost breakdown on each wing, plow and spreader equipment including make, model and serial number.**

Does all equipment meet minimum requirements: ☒ Yes ☐ No

List items not meeting requirements: _____

List items exceeding requirements: _____

Describe Warranty: warranty per spec.

Person responsible for warranty work: Jay Milkowski Telephone No: 920-336-8068 Ext. 129

Submitted By:

Company Name: Monroe Truck Equipment

Address: 1151 West Main Ave De Pere WI 54115

Telephone Number: 920-360-4446 Fax Number: 920-336-8118

Email: tredfean@monroetruck.com

Signature & Title of Person Submitting Proposal: Troy Redfean

Printed Name as signed above: Troy Redfean Date: 12-29-08

WINNEBAGO COUNTY, WISCONSIN
HIGHWAY COMMISSION



REQUEST FOR PROPOSALS
FOR
WINTER EQUIPMENT INSTALLED ON
TWO TANDEM AXLE TRUCK CHASSIS

RFP# HY07-09

REQUEST FOR PROPOSALS

Winnebago County will receive proposals for the furnishing and installation of WINTER EQUIPMENT INCLUDING SNOW PLOWS, RIGHT SIDE SNOW WINGS, SALT SPREADERS, PRE-WET LIQUID SYSTEMS, DUMP BODIES AND HYDRAULIC SYSTEMS INSTALLED ON TWO TANDEM ALXE TRUCK CHASSIS for the Highway Department.

If Requests for Proposals or Bids are obtained from the County's website, it will be the vendor's responsibility to check the website for any addendum up to the due date of the Proposals or Bids.

Submission of Proposals

Proposals must be filed in the office of the Winnebago County Clerk, no later than 2:00 PM, Central Time, December 30, 2008. Proposals received after the above hour and date, will be returned unopened.

Hand-deliver proposals to: Winnebago County Courthouse, Room 110, 415 Jackson Street, Oshkosh, WI 54901 or Mail to: Winnebago County Clerk's Office, PO Box 2808, Oshkosh, WI 54903-2808.

All proposals must be submitted in complete original form along with one (1) additional copy. An authorized individual using an unduplicated original signature is required to sign the Proposal. The proposals must be sealed and must be plainly marked in the lower left-hand corner of the envelope "RFP# HY07-09 Winter Equipment." The envelope must also show name of the vendor submitting the proposal.

All questions in the packet must be answered. All additional information required must be attached to the back of the packet. Any other information not specifically solicited but pertinent to the vendor's proposal may also be attached to the back of the entire packet.

Written requests for withdrawal of proposals is permitted any time prior to the scheduled due date and time.

All proposals submitted shall be binding for ninety (90) calendar days unless the Vendor(s), upon request of the County, agree to the extension.

Proposals will be evaluated and an award, if any, will be made as soon as possible thereafter. Award will be based on best value as determined by the County. Price proposals can be viewed after the scheduled due date and time on our website, www.co.winnebago.wi.us, under the Bids & RFPs option.

Other Information

Winnebago County is not liable for any costs incurred in replying to this Request. The County reserves the right to reject any and all proposals, to select the proposal considered most advantageous to Winnebago County.

You may submit multiple proposals. Make a copy of the Proposal & Signature Page for any additional offers.

Any proposals submitted in conjunction with this request will become public record, open for public inspection. If there is confidential or propriety information which should be exempted from this requirement, vendors must include a separate request explaining what items should be exempted and why. Notification of the County's determination on such requests will be made prior to release of any information in the proposal.

The purchase of this equipment is contingent upon approval of funds by the Winnebago County Board of Supervisors.

Winnebago County reserves the right to cancel any order for failure of the successful vendor to comply with the terms, conditions or requirements of this Request.

Should the U.S. Government by its action, affect or prevent a dealer from fulfillment of the terms of this proposal he should immediately furnish proof of same in writing. All proposals shall be firm.

Contacts

Requests for further information concerning this RFP should be directed to:

Winnebago County Purchasing Department
448 Algoma Blvd. Room 322
PO Box 2808
Oshkosh, WI 54903-2808
(920) 236-4875
cbuchholz@co.winnebago.wi.us

All questions about the meaning or intent of these Documents shall be submitted to the Purchasing Department in writing. Replies shall be issued by addenda, mailed or delivered to all parties recorded as having received the RFP. Questions received less than five (5) days prior to the due date will not be answered. Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

**MINIMUM REQUIRMENTS FOR SNOW PLOWS, RIGHT SIDE SNOW WINGS,
SALT SPREADERS, PRE-WET LIQUID SYSTEMS, DUMP BODIES AND HYDRAULIC SYSTEMS
INSTALLED ON TWO TANDEM ALXE TRUCK CHASSIS**

INTENT

It is the intent of this RFP to describe the minimum requirements for winter equipment capable of meeting Winnebago County Highway Commission requirements for hauling, snow plowing and salt spreading needs. The spreader must have the ability to place material 1,000 lbs. per lane mile with a minimum of 100 lbs. per lane mile. The spreader must also be capable of prewetting salt. The salt spreader must be capable of placing a narrow band of salt on the centerline. These units must be able to operate all functions at the same time, with the engine at 1,000 RPM's without interrupting the salt spreading pattern. The proposal stipulates the minimum acceptable requirements for good engineering design and performance. It also establishes the vendor's responsibilities to furnish all necessary appurtenances in complete conformance with the requirements stated herein.

Any item not mentioned in this RFP which is required for satisfactory performance for this unit shall be provided by the successful vendor with no additional reimbursement even though it was not directly referred to in this proposal.

Any additional items provided on the unit above those specified that would add to its longevity, performance and productivity shall be listed at the end of this proposal.

This equipment will be mounted onto two truck chassis being bid separately at this time.

MINIMUM REQUIREMENTS FOR EQUIPMENT

SNOW PLOWS (2):

- a. 48" high integral shield moldboard power reversing trip plow.
- b. Moldboard thickness shall be a minimum of 10 gauge.
- c. 12" cutting edge with standard AASHTO punch pattern.
- d. Chrome rods on hydraulic cylinders.
- e. 12" front rubber shield mounted on the moldboard.
- f. Plow must be mounted to swivel from side to side independent of the hitch. Hydraulic cushion valve mounted on the driver's side on the outside of the truck frame.
- g. Fast quick couplers on cushion valve, mounted per county specification to be compatible with the county fleet.
- h. Snow must not come onto the windshield with the blade set at 15 degrees. Discharge end flush with the blades.
- i. Plow swivel must be blocked to clear 6" - 8" on end of plow powered to the right or left.
- j. Plow must have a compression type trip system.
- k. Plow beam must be extended to the furthest plow vertical rib.
- l. Plow shall be powder coated Omaha Orange.

Plow meets all requirements: ✓ yes _____ no

List items not meeting requirements: _____

PLOW HITCH (2):

1. Shall be loop style hitch on the plow. A QCP loop receiver hitch with cheek plates on the truck side.
2. Plow and wing mounted as close to the front axle as possible.
3. Designed for full hood opening.
4. Plow lift shall be a single chain with a self leveling base. The plow shall not tilt when turned from side to side.
5. Lift arm shall have the ability to be swung down when not hooked to plow.
6. Wing frame built for heavy duty highway plowing.
7. Release rod locking pin shall be a minimum of 3/8" minimum.
8. Plow hitch must be heavy duty to carry a 12' plow. Also heavy enough and set up for tow truck to hook to.
9. Hitch receiver shall be set at 14" off the ground with no part of the hitch hanging lower than 12" from the ground.
10. All hydraulic hoses must have a disconnect panel mounted on truck per county specifications. Plow hitch and front wing mount shall be removed in one piece.
11. Provide bracing from the truck frame to the hitch frame.

PLOW HITCH (cont'd):

- 12. Plow must easily detach from the hitch.
- 13. Lifting brackets installed at the center of gravity on top of hitch beam for overhead crane removal.
(truck portion)

Plow hitch meets all requirements: ✓ yes _____ no

List items not meeting requirements: _____

SNOW WING-RIGHT SIDE MOUNT (2):

- A. Dual functioning wing controls.
- B. Wing moldboard must be full trip with a solid cutting edge to prevent damage to wing and truck.
- C. Wing moldboard thickness must be minimum 3/16" with continuous weld construction.
- D. Moldboard height 39" at discharge end. Must be standard 12" AASHTO punch holes.
- E. Dual push arms must be heavy duty no smaller than 3" outer diameter.
- F. Cutting edge must not bind or extend spring when in the travel position.
- G. Tri-axle truck moldboard 10' long with 10' cutting edge.
- H. Wing toe and heel must have indicators on compatible with fleet. L.E.D strobe mounted to the heel of the wing wired on its own switched circuit.
- I. Wing toe and heel must be able to float with the ground.
- J. All mounting on the truck frame must be mounted with grade eight bolts.
- K. All hydraulic hoses shall be connected to the truck with JIC fittings mounted on a panel per County specifications. Provide caps and plugs.
- L. Front wing post must be power up and down. Heavy duty front post built into the frame of the plow hitch.
- M. Must be able to lower toe of wing when in the stored position.
- N. Front post will be designed to operate without obstructing the driver's vision above the hood of the truck.
- O. Wing post must be removable with the plow hitch assembly.
- P. Must have hydraulic wing lock and safety chain to hold in the up position.
- Q. Wing step plates welded on both wing bars. Grip tape is not acceptable.
- R. Shall have a Timbren spring support installed in suspension for the wing weight.
- S. Snow wings shall be powder coated.

Right side snow wing meets requirements: ✓ yes _____ no

List items not meeting requirements: _____

UNDERBODY PLOW (2):

Scraper must be extra heavy duty for year round use, capable of handling snow pack, ice, and high volumes of snow at various speeds in the winter season. Must be easily removed to install a pusher axle through the summer months.

1. The moldboard shall be 1" thick X 20" height, heat treated carbon steel 12' in length.
2. The moldboard shall have heat treated bend at the bottom of the moldboard to provide increase strength.
3. The cutting edge shall be 5/8" X 8" AASHTO, top punch, double beveled.
4. Reversing shall be accomplished with two 4" double acting cylinders.
5. The reversing table shall be 1" solid piece circle with infinite plowing positions available up to 45 degrees.
6. The cylinders will provide a hydraulic lock for holding the moldboard in place while in use. A cross over relief valve shall be installed.
7. The cylinders shall be 2" diameter with nitride finish.
8. The reversing circle shall pivot around a 5" center pin and be attached with 3 3/4" mounting bolts to prevent hole elongation and shall be lubricated with a grease zerk.
9. The hinge line shall be a solid shaft, 96" in length and have three moldboard anchor pins.
10. The hinges shall be reinforced with one wrap around 1/2" gusset and the outer two hinges and two gussets on the inner hinge.
11. The hinges are to be bolted to the moldboard and to the hanger board. **Welded hinges are not acceptable.**
12. The hinge shaft shall have grease zerks for lubrication.
13. The inner hinge tube shall have two wear plates to prevent side to side shifting of the moldboard.
14. The moldboard actuation will be accomplished by two 3-1/2" double acting cylinders with 2" nitrate piston rods.
15. Cushioning of the moldboard will be with two heavy duty shock assemblies that have two internal steel springs.
16. The pressure relief shall be preset at 400 PSI.
17. All steel shall be powder coated.

Underbody plow meets requirements: ✓ yes _____ no

List items not meeting requirements: _____

DROP-AXLE (2):

- a. Lightweight, self steer, inline king pin with 5" axle drop.
- b. Axle capacity 13,200 pounds. Installed per state and federal regulations.
- c. Provide approximately 44,500 pounds on back three axles and 20,000 pounds on the steer axle.
- d. Axle shall be installed so it can easily be removed in winter when the underbody is installed.
- e. 15" X 4" S-cam brakes. Haldex automatic slack adjusters.
- f. Axle travel shall be 12".
- g. 10 hole hub piloted rims and tires to be supplied by Winnebago County. Axle must be hub piloted just like the drive axles.
- h. Three year warranty on all parts including seals.
- i. Axle must lift when the truck is placed in reverse and remain up until released by the operator.
- j. Clear hub covers for level inspection.
- k. Dump control valve shall be mounted in a sealed case with the tarp relays.

Drop axle meets requirements: ✓ yes _____ no

List items not meeting requirements: _____

ASPHALT DUMP BOX FOR TRI-AXLE 66,000 LBS (2):

Body shall be used as a dump body designed for all materials including hot asphalt. 15 to 17 yard capacity. Asphalt tailgate.

- A. Dump box shall be designed for 66,000 pounds on the truck with a full box of salt, liquid pre-wet, and all winter equipment on the truck.
- B. Tri-axle box size approximately 17 feet long floor designed for dumping into paver, chip spreader, and shouldering machine. Designed so will not interfere with hopper, lights, wiring, ect.
- C. The longsills will be fabricated 9" deep and fabricated from 3/16" AR250/125,00 PSI tensile strength steel. Shall be internally sprayed with a rust proofing.
- D. Rubrails shall be made of 3/16" AR250/125,000 PSI tensile strength steel and internally sprayed with rust proofing.

ASPHALT DUMP BOX FOR TRI-AXLE 66,000 LBS (cont'd):

- E. The front shall be manufactured from 7 gauge AR450/190,000 PSI tensile strength steel. The front shall be sloped for installation of reservoir and valve body. Shall not have a doghouse at floor level. Maximum distance from back of cab to box 7 ½".
- F. Side shall be manufactured from 7 gauge AR450/190,000 PSI tensile strength steel.
- G. The tailgate will be 50" to 60" manufactured from 3/16" 450/190,000 PSI tensile strength steel having two horizontal braces sloped to shed dirt. Tailgate shall be stainless steel outside with an insert being the AR450 material for material contact.
- H. The unit shall have one piece 1/4" AR450/190,000 PSI tensile strength steel floor.
- I. Corner posts shall be 3/16" 304 stainless steel.
- J. Tapered side design the same as rest of the body. No vertical or horizontal bracing.
- K. Tarp rail mounted per county specification.
- L. Mount and powder coat body with a custom built canvas holder that will be furnished by the county for each dump box.
- M. Tool box shall be stainless steel mounted to the frame. Box dimensions 12"W X 28"H X 36"D.
- N. All grease fittings shall be remote mounted for easy access.
- O. Dump box shall be protected from going over the end of hydraulic cylinder travel by means of an electric solenoid. (example mercury switch)
- P. Tailgate must have spreader chains and bracket installed to set end gate opening.
- Q. Canvas to withstand heat, cold, seal out water, and resist oil with grommets at 18" maximum spacing.
- R. Canvas must be a minimum of 12" wider than the box to protect the cargo from water entry. Canvas shall cover the entire box. Electrically operated with a switch in the cab.
- S. Canvas must attach to rotating shaft with a positive clamp keeping canvas on center when rolling up. No exposed spring allowed keeping tension on the canvas.
- T. Tailgate will be air locked and unlocked with control in the cab "locked switch".
- U. Box hydraulics: lift cylinder shall be single acting (first stage) telescoping design with cylinder sleeves. The cylinder must lift a full load to the highest angle.
- V. Designed to eliminate side pressure on the cylinder.
- W. Five year warranty on ram. Ram shall be trunion mount with no more than 1½" from the cab shock mount to the front of the ram basket.
- X. Steps inside and outside the box for easy egress and ingress. Ladder that folds under the right front.
- Y. Rear hinge shall be greasable. Standard hinge recommended by the manufacturer.
- Z. Sloped rails to prevent material from resting on the body.
- AA. Electric box vibrator. Mounted on reinforced floor section. Ground strap on the box to frame.
- BB. Two OSHA approved body props, back up alarm, and raised body indicator.

ASPHALT DUMP BOX (cont'd):

CC. Shovel and broom holder. Box shall be pre drilled for county installed fins. Contact county for location.

DD.Box shall be blasted then powder coated Omaha Orange before installation. No welding after powder coated.

Asphalt dump body meets all requirements: ✓ yes _____ no _____

List items not meeting requirements: _____

Body make: Crypteel Body model: Select

Body dimensions: 17'6" long x 96" outside width

SALT SPREADER (2):

1. A direct drive, sensor auger will provide material to be placed on left side of truck in driver's view. Sensor in motor housing. Must provide feedback cable with speed sensor in auger motor.
2. Must be able to place salt, sand, and chips material on road and place material by means of a spinner.
3. Must provide a standard spinner compatible with the rest of fleet. Computer manual controlled speed as backup.
4. Disconnect panel with JIC flange caps and plugs provided. Mount between frame rails 3' up the body.
5. Hydraulic driven spinner that will not decrease speed when box is raised or other hydraulics are used.
6. Salter must be shielded on both sides of end gate to prevent salt from spilling out. Shall be 201 stainless and not require tooling to remove or install.
7. End gate must be braced open when the salter is attached.
8. Spinner mounted so not to be damaged by box when box is raised.
9. Six inch auger to have one way flighting and exit on the far left side.
10. Unit shall be installed and fabricated for easy unloading.
11. Salter must be made of 201 stainless steel.

Salt spreader meets requirements: ✓ yes _____ no _____

List items not meeting requirements: _____

LIQUID EQUIPMENT (2):

- a. The tanks will be 140 gallon capacity with internal baffles.
- b. Tank shall be constructed of polypropylene material with 1 1/4" ports located as close to the bottom as possible. Tank must be able to completely drain out.
- c. Three brass spray nozzles (minimum) shall be mounted to a bracket on the spinner.
- d. Liquid pump shall be brass or other non-rusting material.
- e. Pump rate shall be seven GPM minimum and mounted near the spreader in a fiberglass box out cast into the tank end.
- f. Tanks and plumbing shall be designed for easy removal.
- g. Tank mounts and straps shall be stainless steel.

Liquid equipment meets requirements: ☒ yes ☐ no

List items not meeting requirements: _____

HYDRAULIC SYSTEM CONTROLS (2):

- A. The central hydraulic system shall be a front mount load sensing system.
- B. The controls will be a comfortable arm rest style with pistol grip designed control that will be capable of feathering the equipment up and down at a comfortable speed. The grip shall have the ability to fold back into the arm rest for driver comfort during the summer months.
- C. Spreader control shall be a CAN BUS based closed loop ground speed orientated control system. Control shall have the ability to communicate with the shop lap-top for programming and downloading data.
- D. The operator will be able to control all functions of the winter equipment with one hand on the pistol grip control. Pistol grip must have a safety feature to disengage the joystick when not in use.
- E. Control system shall have a backup control if the joystick fails when in operation. Possibly through the display panel control switches.
- F. The joystick shall be capable of proportional control.
- G. Float shall be available in all functions.
- H. Unit must be protected from reverse polarity as well as overvoltage. Protection to prevent unauthorized use of setup and calibration parameters. Must have manual mode.
- I. Ground speed computer control capable of controlling a spreader and pre-wetting.
- J. Spreader control display will be mounted in easy view of the driver eye line. Battery power backup to protect memory.
- K. Minimum of three different materials and 10 different rate settings. Programmable blast and standby functions.
- L. Spreader must start spreading salt as soon as the trucks wheels are in motion. Must meet Wisconsin DOT requirements for spreading salt.
- M. Control must have built in defense for protection of the pre-wetting liquid pump running dry.
- N. Control shall be protected against radio frequency interference.
- O. Road temperature shall read through the control head or dash mounted gauge.

HYDRAULIC SYSTEM CONTROLS (cont'd):

P. Low oil level and restriction shown on display.

Q. Control shall automatically lift the underbody when truck is in reverse.

Hydraulic system meets requirements: ☒ yes ☐ no

List items not meeting requirements: _____

PUMP (2):

1. The hydraulic pump shall be a piston, pressure and flow compensated load sensing type. The pump shall have a minimum displacement of 6.0 cubic inch per revolution at maximum stroke. The pump shall have a 1-1/4: round keyed shaft and class C-S.A.E mount.
2. The pump shall have a standby pressure of 400 PSI.
3. A ball type shutoff valve shall be installed. A 3,000 PSI approved ball type shutoff valve for the discharge side shall also be installed.
4. A Spicer 1310 series drive line installed to run the pump.

Pump meets requirements: ☒ yes ☐ no

List items not meeting requirements: _____

FILTERS (2):

- a. Pressure type filter must have a restriction indicator / warning light.
- b. Return filter shall be installed in reservoir and capable of removing both water and solid contaminants. Filter rating of 10 microns, 50 GPM and 25 PSI bypass valve.
- c. Filters must be equipped with pressure switches to activate oil pressure warning.
- d. Oil level warning must come on with the box all the way up when the minimum level of oil is reached.

Filters meet requirements: ☒ yes ☐ no

List items not meeting requirements: _____

VALVES (2):

Each segment must have manual override except for the auger and spinner sections. Each section must have adjustable flow control. All valve spools or cartridges must be class one spool fit for minimum leakage to tank and equipment leak down. All coils shall operate on 12 volts DC and be rated for continuous duty. All electrical connections shall be weatherproof connections. All hydraulic connections shall be JIC fittings. Hydraulic valves must be enclosed in a weather tight stainless steel enclosure mounted behind the cab, angled to fit with the slanted front box. Hydraulic wing locks installed. Valve actuator shall have lighted connectors.

- 6/A
- A. Double acting hoist, 40 gpm.
 - B. Double acting plow up / down with float control.
 - C. Double acting plow left / right with float control.
 - D. Double acting right wing toe with float control.
 - E. Double acting right wing heel with float control.
 - F. Liquid pre-wet control - 7 gpm maximum
 - G. Spinner - 7 gpm maximum
 - H. Auger compatible with auger motor. 15 gpm maximum.

- Includes scraper sections

Valves meet requirements: ☒ yes ☐ no

Items not meeting requirements: _____

RESERVIOR (2):

1. Minimum 40 gallon oil reservoir with tank filter assembly. Tank shall be mounted above the frame behind the cab and made of stainless steel.
2. External visual level gauge with level sensor for electric dash mounted indicator.
3. System must hold enough oil to operate all functions for an extended period of time with the box as high as it can go without damage to the pump.

Reservoir meets requirements: ☒ yes ☐ no

Items not meeting requirements: _____

ADDITIONAL ITEMS (2):

- a. One extra **full plow assembly** with loop hitch and blades meeting exact specs in bid.
- b. Electric dash mounted hydraulic system pressure gauge.
- c. Manual hydraulic pressure gauge mounted on the manifold.
- d. All lighting hooked into the chassis supplied switches.
- e. All wiring connectors, hydraulic lines, and air line caps included for unhooking when not in use.
- f. All lighting shall be L.E.D.
- g. External wiring shall be wired into a sealed panel that will contain the relays and electric valves need to operate equipment bid.

All additional items included in proposal: ☒ yes ☐ no

List items not included in proposal: _____

PAINT (2):

All equipment except the box and plows shall be powder coated black. The box and plows shall be powder coated Omaha Orange.

Equipment powdered coated per requirements: ☒ yes ☐ no

WARRANTY:

Warranty shall commence on date completed units are placed into service by Winnebago County. Warranty should be for two full years on the winter equipment. Electric over hydraulic control system shall have a four year warranty on all major parts including joystick, display, valve body, sensors, and all parts related to the CAN BUSS system. Tri axle assembly and related parts shall have a three year warranty. Box cylinder shall have a five year warranty.

All warranty work shall either be done in the Winnebago County Highway shop located in Oshkosh, WI or successful bidder shall be responsible for pick up and delivery of vehicle to Oshkosh repair shop.

Warranty covered as described: ☒ yes ☐ no

Warranty provisions: _____

MANUALS AND PARTS INFORMATION:

Successful bidder shall furnish two operator's books and one complete parts book for equipment proposed. Also a service manual if applicable.

TURN KEY PREPPED FOR SERVICE (2):

- A. Each truck shall be turn key ready for service within 75 days from the day each truck is dropped at your location.
- B. Headlights set up to shine over the plow. Must be easily plugged and unplugged. Lights shall be mounted to the hood with stainless brackets. "Truck-Lite ATL 80800 lights"
- C. 2 LED warning strobes, LED tail/stop and reverse lights mounted in rear post.
- D. Warning strobe and running/brake lights mounted in self leveling brackets mounted to spreader. Lights shall be removable with spreader.
- E. Salter lights included to see spinner mounted on salter.
- F. Color code wiring using the automotive standard code.
- G. Two Federal Signal Escape top mounted self leveling LED strobes attached to the tarp enclosure.
- H. One flashing amber LED light mounted on the rear outside of the wing. Light shall be on its own protected circuit wired into the dash OEM supplied switch.
- I. Attach reflective sheeting per State Highway Maintenance Guideline 51.06.
- J. Install 5 pound fire extinguishers in trucks.
- K. Install quarter fenders on each front drive axle per County specifications.
- L. Put carbide blades with 1/2 inch cover blade on both the plows and the wings.
- M. Install two front and two rear tow hooks on each truck.
- N. All electrical and hydraulic controls must be labeled in cab per County specifications.
- O. Snowplow must have adjustable stands attached to plow on each side.
- P. Front bumper must be remounted with plow hitch off back to standard O.E.M height.
- Q. 3/4" rods with tie down straps per County specifications. Must be able to put canvas tie down straps on from the ground with a short man. One for each grommet.
- R. Furnish and install backup alarm.
- S. Supply one extra plow and wing trip spring assembly for each truck.
- T. Full undercoating of equipment for each unit.
- U. All lighting shall be wired into the truck O.E.M supplied dash switches.
- V. 10" convex mirror hood mounted for drivers full view of the wing.

All turn key prepped items installed per requirements: ✓ yes _____ no _____

Items not supplied or installed: _____

OPTION # 1:

Force America four joystick load sensing control system with an Add-A-Fold load sensing valve assembly and Force HP171 high pressure filter with a bypass indicator. Force system shall carry a four year warranty.

Option #1 shall meet specification written in main proposal with the exception of the hydraulic control system. Option price shall be the turn key cost with all winter equipment and option #1 equipment.

OPTION #1 (cont'd):

List equipment included in option #1: _____

List items not meeting requirements: _____

MONROE TRUCK EQUIP - GREEN BAY
1151 WEST MAIN AVE
DE PERE WI 54115
800-848-5400 FAX 920-336-8118

CUSTOMER : 305100	QUOTE # 32020
Ship to: WINNEBAGO COUNTY HIGHWAY DEPT	DATE: 12/29/08
901 WEST COUNTY RD Y	CUST PO #
PO BOX 2764	TERMS: NET 30
OSHKOSH WI 54903-2764	SALES REP: 511
	QUOTED BY: LD

WE ARE PLEASED TO QUOTE FOR ACCEPTANCE WITHIN 30 DAYS FROM THE DATE OF QUOTE
PRICES & TERMS IN ACCORDANCE WITH SPECIFICATIONS DESCRIBED IN QUOTE. STATE AND
FEDERAL TAXES WILL BE ADDED WHERE APPLICABLE.

MODEL AND DESCRIPTION

BODY LENGTH: 17'6"
Body ID: 84 OD; 96
Body Style: SELEC
Hoist Mounting Type: STANDARD
Hoist Model: M63153
Front Style: SLOPED
Side Style: SINGLE PANEL W/RUBRAIL
Rear Style: SLOPED
Frame Style: 9 WESTERN TUBULAR
Front Height: 66
Side Height Front: 66
Side Height Rear: 56
Rear Height: 56
Front Material: 3/16 AR450 STEEL
Side Material: 3/16 AR450 STEEL
Floor Material: 1/4 AR450 STEEL
Frame Material: 1/4 FORMED
Outer Side Material: 3/16"
Asphalt Rear: YES
Rear Pillar Width: 18
Tailgate Release Type: AIR
Tailgate Hinge Type: 1.5 THICK / 7 OFFSET
Tailgate Thickness: 3.5
Tailgate Bracing Style: FULLRIB
Lower Rail: 2 INCH FLAT
Left Front Ladder: RIGID
Right Rear Ladder: RIGID
Chainslot Bracket Type: BANJO
Rustproof Side Rubrail: YES
Stainless Rear Pillar Rubrail: REAR PILLAR
Rear Oval Light Cutouts: 3 OVALS
POWDER COAT ORANGE
under coat dump body

*** CONTINUED NEXT PAGE ***

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Stainless steel tailgate skin and outer perimeter of the tailgate**
HOIST, MARATHON M63153 S/A W/GREASEABLE REAR HINGE ASSY

ADDITIONAL OPTIONS INCLUDED IN PACKAGE

- ELECTRIC BACK-UP ALARM, 97DB
- (2) SPRING LOADED SHOVEL HOLDER; STAINLESS STEEL
- DUMP BODY VIBRATOR - ELECTRIC - INSTALLED ON CROSSMEMBERLESS BODY
- LADDER, SWING OUT MOUNTED ON RIGHT FRONT UNDER RUB RAIL
- REFLECTIVE TAPE, RUB RAILS, CORNER POST, TAILGATE
- STEPS, INSIDE BODY LEFT FRONT, RIGHT REAR
- BODY UP SWITCH, MERCURY IN LIEU OF MECH SWITCH

AERO EASY COVER TARP SYSTEM FOR DUMP BODY
INCLUDES:

- INSTALL CUSTOMER SUPPLIED TARP HOUSING IN LIEU OF CABSHIELD
 - TIE DOWN, CUSTOM 1/4" RODS W/BUNGIE CORDS FIXED HOOKS
 - CUSTOM TARP EXTRA WIDE W/GROMMETS
 - ELECTRIC GEAR BOX DRIVE
 - INSTALLED
- TARP ASSY, AERO 550 ELECTRIC 10' WIDE W/GROMMETS

HENDRICKSON TURNER PARALIFT SELF STEER AXLE
STANDARD EQUIPMENT:

- 13500 LB. CAPACITY 15" X 4" BRAKES
- AUTOMATIC SLACK ADJUSTERS
- AIR RIDE/AIR LIFT
- AUTO RAISE IN REVERSE
- AIR CONTROLS, MOUNTED IN DASH; TRI AXLE PKG *
- REGULATOR MOUNTED OUTSIDE OF CAB IN WEATHER RESISTANT BOX
- HOLDBACK - QUICK RELEASE - BRAKE PROTECTOR VALVES
- NO TIRES OR RIMS
- PAINTED BLACK
- INSTALLED

FRONT MOUNT PISTON PUMP LINE INCLUDES THE FOLLOWING ACCESSORY COMPONENTS:

- PVWH45 PUMP, FRONT MOUNT, 6.1 CU.IN., LH ROT., 1 1/4" SHAFT 1/4" KEYWAY; INSTL
- MMV 7 SECTION ELECTRIC HYDRAULIC VALVE W/ SPREADER MANIFOLD
- SHUT-OFF VALVE, HIGH PRESSURE AT PUMP; INSTALLED

*** CONTINUED NEXT PAGE ***

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- TANK, 45GAL MOUNTED BEHIND CAB, W/FILTRATION, STAINLESS STEEL; INSTL
- ENCLOSURE, ABOVE FRAME MOUNT STAINLESS STEEL TAPERED DESIGN
- PRESSURE GAUGE, ELECTRIC DASH MOUNTED
- FILTER, HIGH PRESSURE, PARKER; INSTL
- 4 BANK MANIFOLD PLATE FOR WING; INCLUDES COUPLERS
- UPGRADE, HYD COUPLERS TO FASTER BRAND IN LIEU OF STANDARD
- ENCLOSURE, FIBERGLASS, FRAME MTG TO PROTECT ELECTRIC EQUIPMENT

MTE CUSTOM HYDRAULICS - LOADSENSE, FRONT MOUNT, ELECTRIC, MMV; INSTL

- MONROE IGRIP SINGLE JOYSTICK WITH MC270C CLOSED LOOP SPREADER CONTROL
- IGRIP SINGLE JOYSTICK HAS X,Y, Z AXIS MOVEMENT WITH CUSTOM ARMREST MOUNTING
- 5 PROGRAMMABLE LED BACKLIT SWITCHES
- 3 CONTACTLESS TACTILE MODE SELECTION ZONES
- SIDE SWITCH CLUSTERS FOR STANDBY/BLAST AND RATE CHANGES

MC270C CLOSED LOOP SPREADER CONTROL

- J1939 CAN MULTIPLEX OPERATION SYSTEM
- 2.7" COLOR DISPLAY
- 10 POSITION INCREMENTED ROTARY DIALS WITH ON SCREEN RATES FOR APPLICATION AND LANE WIDTH
- TIMED OR MOMENTARY BLAST SWITCH
- ELECTRIC OR HYD. LIQUID CAPABLE
- INTEGRAL SWITCH PANEL W/4 PROGRAMMABLE SWITCHES (ON/OFF OR MOMENTARY)
- ON SCREEN INDICATOR FOR BODY UP, LOW OIL, HOT OIL
- COLOR CODED AND LABELED CABLES
- MOUNTED WITHIN EASY REACH OF OPERATOR
- MPS; ROADWATCH W/ DISPLAY; FOR USE WITH THE MC270; INSTL

IGRIP W/MC270C CLOSED LOOP PLOW/SPREADER CONTROL INSTL

TRUCK PORTION HITCH

Monroe QCP-loop compatible truck portion hitch. Built-in receiver accepts the QCP-loop portion plow hitch.
lift cylinder 4" x 10" double acting

LIFT HOOK, CENTER OF GRAVITY FOR HITCH REMOVAL BY OVERHEAD CRANE

BUMPER FRONT, REWORK TO FIT SEASONAL EQUIPMENT REMOVED

MONROE PIN & LOOP QUICK HITCH MOUNT; TRUCK PORTION

MONROE REVERSIBLE COMPRESSION TRIP INCLUDES:

- * One piece A569 10 gauge steel roll formed moldboard with a tensile

*** CONTINUED NEXT PAGE ***

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strength of 55,000# - 70,000#

- * Integral shield style moldboard
- * Six 1/2" x 4" one-piece solid flame cut ribs that taper to 2" at the top of the moldboard
- * 2" x 3" x 3/8" top moldboard angle
- * 4" x 4" x 3/4" bottom moldboard angle
- * 3" x 3" x 1/4" non-spring horizontal angle bracing
- * 3" x 3" x 1/2" horizontal spring support angle bracing
- * Dual compression trip spring assemblies
- * Monroe built in level lift assembly
- * Main push tube is 4" x 4" x 3/8" A36 steel seamless wall tubing
- * Fabricated from A36 steel 3-1/2 x 3-1/2 1/2" semi-circle
- * Moldboard and frame to be 100% continuously welded
- * Moldboard to be shotblasted and painted Powder Coat orange,
with the pushframe painted Powder Coat black
- * Two 3" x 10" with 1/2" rod power reverse cylinders with cushion valve
- * 3/4" x 6" carbide cutting edge with cover blade

The moldboard height of the plow is 48 inches
The moldboard width of the plow is 12 feet

INCLUDED WITH THE PLOW BUT NOT LISTED ABOVE:

- * Oscillating style QCP loop installed
- * Pair of 36" fluorescent markers shipped loose
- * 3/4" x 6" carbide cutting edge with 1/2" cover blade in lieu of standard
- * 12" rubber snow deflector installed
- * Pushframe extended, in lieu of standard
- * Two additional ribs installed on the moldboard halfway between the
two standard ribs so the pushframe attaches to the plow moldboard
at a point where the plow and wing will NOT conflict at full
moldboard angle.
- * All cutting edge bolts must be accessible with an impact wrench from
the back side with no interference from any gussets or structures.

MP48R12-ISCT; FULL MOLDBOARD TRIP REVERSIBLE PLOW; W/OPTIONS

10' DOUBLE FUNCTION FULL TRIP PATROL WING

Monroe Double Function Patrol Wing is furnished with: 10' moldboard
assembly, carbide cutting edge, 29" moldboard inboard, 39" moldboard
outboard, 3/16" moldboard thickness, 4"x4"x3/4" bottom angle, 1/2"

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thick one piece ribs, right side rear wing mount, right side front post assembly, full trip mounting block, dual pusharms for full trip application. Attaching hardware is painted black and moldboard is orange.

INCLUDED WITH THE WING (NOT LISTED ABOVE) ARE THE FOLLOWING ITEM:

- Full trip capability with dual pusharms in lieu of standard
 - 3/4" x 6" carbide cutting edge in lieu of standard
 - Standard side plate kit, loose
 - HD 3" pusharms in lieu of standard
 - HYDRAULIC LOCK KIT
 - WING SIDE TIMBREN LOAD BOOSTER KIT
 - DOUBLE WNG MARKERS ON FRONT POST
 - SINGLE WING MARKER ON HEEL END OF WING
 - 10" SPOT MIRROR MOUNTED ON THE HOOD
 - STEP,GRIP STRUT WELDED TO BOTH WING PUSH ARM ASSY
- 10' HD DOUBLE FUNCTION PATROL WING; H/D PUSH ARMS & OPTIONS

SCRAPER 3500 SERICES REVERSING

- * 1" thick x 20"H x 12'L moldboard
- * HD hangerboard made of 1/2" plate formed and reinforced with 1/2" flat plate and a 3/4" bar running entire length of the hinge
- * 3-1/2" actuating cylinders with 2" nitrided rods & 4-bolt flanges
- * 1" solid circle with no manual pin notches
- * Two 4" reversing cylinders with 2" nitrided rods 2" pivot pins
- * Greaseable 5" center pin
- * 5/8" X 8" cutting edge
- * HD hanger brackets of 3/4" X 18" X 26" solid plate
- * Scraper powder coated black.

MONROE MS966-RF-DD-SS-SPD UNDERTAILGATE SPREADER SHALL INCLUDE THE FOLLOWING:

*** The trough assembly is to be all 7 gauge 201 corrosion resistant stainless steel with one piece endplates, trough is to be 96" in length.

*** The auger shall have reverse flighting for left of center discharge of material. Auger is to be 7 feet in length, auger flighting is to be 6" in diameter, with a 4" pitch, 3/8" thick on the outer edge, and welded to a 2-7/8" O.D. schedule 40 pipe.

* The auger shall be driven by a low-speed, high-torque motor.

*** Direct drive auger has a low speed high torque hydraulic motor directly coupled to the auger and is to utilize a non-corrosive bushing for auger attachment.

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- * The spinner assembly is mounted independent of the bottom cleanout door and has an easy one-man mount and dismount.
- * Spinner disc shall be 18" in diameter and manufactured from black polyurethane material. Disc shall have 6 flights. The disc shall be mounted directly to the hydraulic motor via a cast iron spinner hub.
- * Spinner motor is to be a low speed, high torque motor.
- * Spreader is to be shipped in bare stainless steel, with the mild steel components painted black in color.
- * Austenitic stainless steel construction
- * Direct drive motor in lieu of standard
- * White Roller Stator auger drive motor with speed sensor
- * SHIELDS, SPREADER GB REMOVABLE STAINLESS STEEL STYLE
- * BOLT-ON SPREADER BRACKETS TO REAR BODY PILLARS
- MS9660W ONE WAY FLIGHT SPREADER, 96" WIDE, 201SS, DIRECT DRIVE, 530#

MONROE HYDRAULIC TRUCK MOUNTED LIQUID DISPENSING SYSTEM; CLOSED LOOP

- 140 GAL POLY TANK WITH STAINLESS STEEL MOUNTING HARDWARE; TAILGATE MOUNT
- 7 GPM HYDRAULIC PUMP
- NOZZLE KIT; (3) 2 GPM NOZZLES

ADDITIONAL EQUIPMENT IN PACKAGE:

- FENDERS, 1/4 MOUNTED AHEAD OF DRIVES OFF FRAME
- FIRE EXTINGUISHER, INCAB MOUNTED 5 LBS
- TOOL BOX STAINLESS STEEL FRAME MOUNTED
- EXTRA, COMPRESSION SPRING ASSY. FOR PLOW AND FRONT TORSION SPRING FOR WING

LIGHTING PACKAGE:

- PLOW LIGHTS WITH SIGNALS; MOUNTED ON HOOD WITH MOUNTING BRACKETS
- STROBE, AMBER MOUNTED ON WING HEEL, IN STEEL BOX
- STROBES, AMBER ON LEVELING BRACKETS, ONE EACH SIDE OF TARP ENCLOSURE
- FS TARGET TECH, L.E.D. SELF CONTAINED 2 LIGHT STROBE SYSTEM RECESSED IN CORNER POSTS
- ADDITIONAL STOP/TURN/TAIL LIGHTS MOUNTED IN STAINLESS STEEL BOXES ON SPREADER
- FS TARGET TECH, L.E.D. SELF CONTAINED 2 LIGHT STROBE SYSTEM MOUNTED IN BOXES ON SPREADER
- WIRE TRUCK WITH 7 PRONG PLUG TO ACCEPT LIGHTS HOOKED UP ON SPREADER
- L.E.D S/T/T AND BACKUP LIGHTS RECESSED IN CORNER POSTS
- L.E.D S/T/T LIGHTS RECESSED BETWEEN HINGE

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EQUIPMENT LISTED ABOVE TO UPFIT TWO COMPLETE TRUCKS ALONG WITH A THIRD MONROE
MP48R12-ISCT PLOW WITH ALL PLOW OPTIONS CALLED OUT IN SPEC

TOTAL QUOTE----- 203,413.00

OPTIONS:

WRAP AROUND CURB GUARDS FOR ALL PLOWS AND WINGS (BOTH ENDS) -----	730.00
WING LIGHT FOR BOTH TRUCKS -----	242.00
EXTRA TARP FOR BOTH TRUCKS-----	350.00
MONROE I-SELECT IN LIEU OF I-GRIP FOR BOTH TRUCKS-----	1,311.00

WARRANTY

*BODY AND HOIST CARRY FIVE YEAR WARRNTY

(1ST THREE YEARS 100%; LAST TWO YEARS 50/50)

*LIFT AXLE TO CARRY A THREE YEAR WARRANTY

*HYDRAULIC CONTROLS, DISPLAY AND VALVE BODY TO CARRY A FOUR YEAR WARANT

*ENTIRE EQUIPMENT PACKAGE TO HAVE TWO YEAR WARRANTY

Chassis Spec and Quote Accepted By: X_____

Submitted By: LAIRD DICKINSON for MONROE TRUCK EQUIPMENT