

DIRECTOR OF ROADS

Robert P. Hoepfner, P.E.

FINANCE DIRECTOR

Michelle M Mykytiak

PURCHASING DIRECTOR

JoAnna K. Strizic

**Invitation to Bid on: *One (1) F-450 Dump Truck (or approved equal)
with 3-4 yd³ Dump Body and Snowplow***

Sealed bids will be publicly opened at **11:00** A.M., E.S.T. on **Wednesday, November 16, 2011** at the office of the Macomb county Department of Roads, 117 S. Groesbeck, Mt. Clemens, Michigan, 48043 for the furnishing of the above materials, services, equipment, work and/or supplies in accordance with the terms, conditions and specifications as stated herein and hereto attached.

1. The Director of Roads reserves the right to accept any and all alternate proposals, bids or quotes and to award the contract to other than the lowest Bidder, waive any irregularities or informalities or both, to reject any and all bids, quotes and proposals, and in general to make the award of the contract in any manner deemed by the Director of Roads, at his sole discretion, to be in the Department of Roads best interest. In case of error in the extension of prices in the bid or other arithmetical error, the unit prices will govern.
2. The bid must be delivered in person or sent by mail to the Macomb County Department of Roads, 117 S. Groesbeck, Mt. Clemens, Michigan, 48043. **It shall be in a sealed envelope marked with the name and address of the bidder on the outside of the envelope. The above referenced bid number should also be highlighted on the outside of the envelope. In addition, if the bid is to be express mailed, "Bid Documents Enclosed" must be conspicuously marked on the package.** Facsimile and/or e-mail transmitted bids will **not** be accepted.
3. The bidder shall assume full responsibility for delivery of bids prior to the appointed hour for opening same and shall assume the risk of late delivery or non-delivery regardless of the manner employed for the transmission thereof. Bids shall be accepted at any time during the normal course of business only, said hours being 8:00 am to 4:30 pm, Monday through Friday, legal holidays excepted. A bidder may withdraw their bid response by written request at any time prior to the scheduled bid opening. Any bid received after the scheduled opening time will **not** be accepted and will be returned unopened. No bid may be withdrawn, changed, or modified in any way for a period of sixty (60) calendar days from the date of the bid opening.
4. IT IS UNDERSTOOD THAT THE MACOMB COUNTY DEPARTMENT OF ROADS IS A GOVERNMENTAL UNIT AND AS SUCH IS EXEMPT FROM THE PAYMENT OF ALL STATE AND FEDERAL TAXES APPLYING ON THE ABOVE MENTIONED ITEM AND ALL PRICES QUOTED SHALL NOT INCLUDE ANY SUCH TAX.
5. The total price quoted by the Bidder must be the total cost delivered to the location(s). All goods are to be shipped F.O.B. Shipments sent C.O.D. without the Department of Roads consent will not be accepted and will, at the Contractor's risk and expense, be returned. Unauthorized shipments are subject to rejection and returned at the Contractor's expense.
6. The bidder by execution of the proposal thereby declares that the bid is made without collusion with any other person, firm or corporation making any other bid, or who otherwise would make a bid, and agrees to furnish all bid items in strict accordance with all Federal Regulatory Measures.

7. All bids must be submitted on the Department of Roads form of bid blank. The bid shall be legibly prepared in ink or typewriter. Erasures or alterations must be initialed by the bidder.
8. Submission of a bid will be construed as a conclusive presumption that the bidder is thoroughly familiar with the Bid Proposal and Specifications and that he understands and agrees to abide by each and all of the stipulations and requirements contained therein.
9. In the specifications, whenever an article or material is defined by brand name, the name and catalog number of a particular manufacturer, vendor or a limited description, the term "OR APPROVED EQUAL" is written. Any reference to a particular manufacturer's product either by brand name or limited description is only for purposes of setting a standard of performance, quality, composition, construction or size.
10. Successful bidder must furnish a State of Michigan Motor Vehicle Certificate of Title, properly executed for any equipment requiring same.
11. The Director of Roads reserves the right to award the bid for the equipment which best fits our needs and appears to be in the best interest of the Department of Roads at the time the bids are evaluated.
12. The Macomb County Department of Roads reserves the right to terminate the contract without penalty upon thirty (30) days written notice, due to poor performance or for reasons deemed to be in its best interest. The Macomb County Department of Roads reserves the right to re-award the contract to the second most qualified vendor, re-propose, re-quote or re-bid the contract or do whatever is deemed to be in its best interest.
13. Bidders aggrieved by an award of any resulting contract may file a written notice of protest with the Purchasing Director within seven (7) calendar days of the award by the Macomb County Department of Roads
14. When applicable, contractor must furnish material safety data sheets for their products.
15. BIDDERS ARE REQUIRED TO SUBMIT COMPLETE AND COMPREHENSIVE DATA AND DESCRIPTIVE LITERATURE COVERING THE ITEM PROPOSED TO BE FURNISHED. VENDORS SUBMITTING ALTERNATE BIDS MUST PROVIDE SPECIFICATIONS DOCUMENTING PRODUCT IS EQUAL TO SPECIFIED BID ITEM. BIDS SUBMITTED WITHOUT THE ABOVE DOCUMENTATION WILL BE CONSIDERED NON-RESPONSIVE AND REJECTED.
16. THIS BID BY MUTUAL AGREEMENT OF BOTH PARTIES may be extended for additional one (1) year periods, each year hereafter, but not to exceed a maximum of two (2) additional years.
17. Prior to furnishing the requested products and services, it shall be the responsibility of the awarded vendor to obtain all licenses and permits required to complete this contractual service, at no cost to the Macomb County Department of Roads. These licenses and permits shall be readily available for review by the Administration and Purchasing Personnel.
18. Vendors will provide a general history, description and status of their company.
19. All applicable Federal and State laws and rules and regulation over the project shall apply to the project contract throughout and will be deemed to be included in the contract herein written out in full.
20. The Macomb County Department of Roads adheres to Title VI related requirements as outlined in USDOT Regulation 49 CFR-Part 26, Appendix A of MDOT Bidding Specifications, and the MCDR Policy #407. The Macomb County Department of Roads is an Equal Opportunity Agency.
21. The Macomb County Department of Roads will not pay fuel surcharges.

22. The only **official** document is available over the internet at www.rcmcweb.org or www.mitn.info.
23. All documents and correspondence submitted to the Macomb County Department of Roads becomes the property of the Department of Roads and is subject to disclosure under the "Freedom of Information Act". This Act provides for the complete disclosure of contract and attachments.

JoAnna Strizic
Purchasing Director
(586) 791-3348

Greg Zukowski
Mechanic's Foreman
(586) 791-3117

Copies of Bids and Bid Tabs are available on the following websites:
www.mitn.info or www.rcmcweb.org/viewpage/bids.cgi

PROPOSAL

WE, THE UNDERSIGNED, agree to furnish to the Macomb County Department of Roads **One (1) F-450 Dump Truck (or approved equal) with 3-4 yd³ Dump Body and Snowplow**, conforming to the attached specifications at the pricing indicated as noted. F.O.B., 34592 Nova, Clinton Township, Michigan.

The undersigned herein submitted this bid or proposal and agrees to enter into an agreement with the Macomb County Department of Roads in accordance with the bid documents. In submitting this complete and signed proposal, it is understood that the right is reserved by the Macomb County Department of Roads to reject any or all bids or proposals and to make such award that is in the best interest of the Macomb County Department of Roads

MAKE _____

MODEL _____ YEAR _____

ORIGIN _____

DELIVERY DATE _____

BODY COMPANY _____

UNIT PRICE \$ _____

VEHICLE ORDER CUT-OFF DATE _____

COMPANY NAME: _____ ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PRINTED NAME: _____ SIGNATURE: _____

TITLE: _____ DATE: _____

PHONE NO.: _____ FAX NO.: _____

E-MAIL ADDRESS: _____ TERMS: _____

INDEMNIFICATION

The Macomb County Department of Roads will not be responsible for injury to contractor’s employees, sub-contractors, or to third parties caused by the contractor’s agents, servants or employees. Therefore, the contractor agrees to incorporate the below hold harmless agreement into the required insurance and to be evidenced by being contained in the certificate of insurance. Further, the below listed indemnification is incorporated and is part of the subject contract.

“The contractor agrees to protect, defend, indemnify and hold the MCDR and its directors, officers, employees and agents free and harmless from and against any and losses, penalties, damages, settlements, costs, charges, professional fees, or other expenses or liabilities of every kind and character arising out of or relating to any and all claims, legal fees, liens, demands, court costs, obligation, actions, proceedings or causes of action of every kind and character in connection with or arising directly or indirectly out of this agreement and/or the performance hereof. Without limiting the generality of the foregoing, any and all such claims, etc. relating to personal injury, death, damage to property, defects in materials or workmanship, or any actual or alleged violation of any applicable statute, ordinance, administrative order, rule or regulation, or decree of any court, shall be included in the indemnity hereunder”.

“The contractor further agrees to investigate, handle, respond to, provide defense for and defend any such claims, etc. at his sole expense and agrees to bear all other costs and expenses related hereto, even if it (claims, etc.) is groundless, false or fraudulent. In any case in which this indemnification would violate legal prohibition, the foregoing provision concerning indemnification shall not be construed to indemnify the MCDR for damage arising out of bodily injury to persons or damage to property caused by or resulting from the sole negligence of the MCDR, its directors, officers, employees or agents”.

WORK REFERENCES

Name of Company	Location	Name of Person Approving Work and Telephone No.	Time Period of Project

INSURANCE

The following insurance shall be obtained:

- | | | |
|----|---|--|
| A. | Comprehensive General Liability including | \$1,000,000 per occurrence and
\$2,000,000 aggregate |
| | 1. Products and completed operations | |
| | 2. Broad form property damage | |
| | 3. Premises operations | |
| | 4. Broad form contractual | |
| | 5. Personal injury | |
| B. | Workers' Compensation Employers Liability Statutory
Coverage and Employer's Liability Limits of: | \$500,000/\$500,000/\$500,000 |
| C. | Automobile liability including hired and leased
vehicles owned and non-owned autos | \$1,000,000 CSL or \$500,000 per person
\$1,000,000 per accident \$500,000
property damage |

Personal Injury Protection – Statutory Limits and Property Protection Insurance - \$1,000,000 Limit.

Supplemental Environmental Auto Liability (SEAL) coverage or insurance that covers the loading and unloading of scheduled pollutants is required.

CERTIFICATES OF INSURANCE (GENERAL)

All certificates of insurance and duplicate policies of an outsider, vendor or contractor shall contain the following clauses:

- A. "Underwriters shall have no right of recovery or subrogation against the MCDR (including its agents and agencies as aforesaid), it being the intention of the parties that the insurance policy so effected shall protect both parties in primary coverage for any and all losses covered by the subject policy."
- B. "Any coverage afforded the MCDR shall apply as primary and not excess to any insurance issued in the name of the MCDR, et al."
- C. "The insurance company(s) issuing the policy or policies shall have no recourse against the MCDR for payment of any premiums or for assessments under any form of policy."
- D. "The term 'insured' is used severally, not collectively but the inclusion in this policy of more than one insured shall not operate to increase the limit of the MCDR's liability."

All certificates are to provide thirty (30) days written notice of material change or cancellation. Certificates of Insurance and insurance binders must be provided not less than ten (10) working days before commencement of work to the Macomb County Department of Roads, 117 S. Groesbeck Hwy., Mt. Clemens, MI 48043. Insurance carriers are subject to the approval of MCDR.

FEDERAL EMPLOYER IDENTIFICATION

COMPANY NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PRINTED NAME: _____ SIGNATURE: _____

TITLE: _____ DATE: _____

PHONE NO.: _____ FAX NO.: _____

E-MAIL ADDRESS: _____ TERMS: _____

FEDERAL EMPLOYER IDENTIFICATION NUMBER: _____

Which is (check one of the following):

() Corporation, incorporated under the laws of the State of: _____

() Partnership, consisting of (list partners): _____

() Assumed Name (register no.) _____

() Individual _____

When payment on such order or contract is to be directed to the same company at an address different from above, fill in the following address:

Statement of No Bid

Macomb County Department of Roads

Bid Number:

Title:

Please Send or Fax To:

Macomb County Department of Roads
Attn: Purchasing Department
34592 Nova Drive
Clinton Twp., MI 48035
Fax Number: (586) 791-5860

We, the undersigned, have declined to bid on the subject bid for the following reasons:

Check All That Apply	Reason
<input type="checkbox"/>	Our company does not handle the type of product/service
<input type="checkbox"/>	We cannot meet the specifications nor provide an approved alternate – please explain below
<input type="checkbox"/>	Our company is not interested in bidding at this time
<input type="checkbox"/>	Job is too small
<input type="checkbox"/>	Job is too large
<input type="checkbox"/>	Cannot be competitive
<input type="checkbox"/>	Liability issues such as insurance, bonding, indemnification, hold harmless
<input type="checkbox"/>	Insufficient time to respond – please explain below
<input type="checkbox"/>	Our company's schedule would not permit performance of the specifications
<input type="checkbox"/>	Other – describe below

Remarks: _____

Company Information:

Company Name: _____

Signature of Authorized Company Representative: _____

Printed Name: _____

Title: _____

Company Address: _____

Fax Number: _____

Telephone Number: _____

Important Note: To qualify as a respondent to the bid, the vendor must submit a proposal or return this completed form.

VENDOR REGISTRATION: The Macomb County Department of Roads uses the MITN website for vendor registration, bid and tabulation posting, award information and other processes. Final bid results will be posted on the MITN website after award. Please register to see results – www.mitn.info.

MACOMB COUNTY DEPARTMENT OF ROADS

Specifications for:

One (1) F-450 or Approved Equal Dump Truck With 3-4 yd³ Dump Body, and Snowplow

General Description

It is the intent of this specification to provide for the purchase of one (1) new and unused Light 3-4 yd. Dump Trucks; front plow. Bidders must submit their bid on a unit that meets or exceeds these specifications.

General Requirements

Bids will be considered only from vendors who offer equipment that is manufactured by companies that are known to be skilled and have been regularly engaged in the manufacture of equipment of the type, class and size specified herein for a period of not less than five (5) years. Bidders must be a manufacturer authorized sales and service facility of class "A" license dealer for the product offered.

Units offered under this advertisement shall be new standard production models of the latest design in current production. Units offered shall be equipment that is established, reliable and in successful operation. Units of experimental or unproven design are not acceptable.

All standard equipment and components necessary for operation and normally supplied shall be furnished, even if not called out in specifications. All components requiring lubrication or oil shall be provided with the proper type and amount before delivery. The equipment shall have full manufacturer's preparation and be ready for service when delivered.

The origin and availability of service and parts for the major components must be stated. Qualified service and factory replacement parts must be available on a regular basis, within the State of Michigan and at a permanently established location.

The bidder must submit with their bid, the latest printed manufacturer's specifications and advertising literature on the units they propose to furnish, along with their tentative build sheet, which identifies the specific components being offered. Bodybuilders shall also include a build sheet or quote sheet, which specifically identifies the components being offered. This information shall be included in the bid package.

Bidders are expected to quote price and delivery of equipment they propose to furnish giving careful consideration to the specification. Any deviations from these specifications shall be submitted with the bid in writing, with full detail of each variation with reference made to each item to which the variation applies. If these deviations are not submitted with the bid, the entire bid will be considered non-responsive.

Each bid shall clearly indicate the vehicle order cut off dates (if applicable) for the quoted vehicles. Bids shall also indicate percentage escalation of the quoted price if the purchase order received by the bidder is beyond the vehicle order cut off date due to model year changes as set by the vehicle manufacturer.

The manufacturer's warranty and/or component warranties must be stated. Unsatisfactory or inadequate warranty provisions shall, in themselves, be justification for the denial of the award of this bid by the Macomb County Department of Roads.

In comparing bid proposals, consideration will not be confined to price only. The successful bidder will be one whose product is judged to best serve the interests of the Macomb County Department of Roads when price, product safety, quality, service, parts availability, past performance and delivery are considered. The Macomb County Department of Roads reserves the right to reject any or all bids, or any part thereof, and to waive any minor technicalities. A contract will be awarded to the bidder submitting the lowest responsible bid proposal meeting the requirements of this specification.

COMPLIES WITH SPECIFICATIONS?	YES	NO	EXPLAIN DEVIATIONS
CAB AND CHASSIS			
2WD Regular Cab and Chassis Ford F450, or approved equal. Specify make: _____ Specify model: _____			
EXTERIOR DIMENSIONS (in.)			
Wheelbase/Cab to Axle (in.): 141/60 (to fit a 9 ft. / 3-4 yd dump body). Verify WB/CA requirements with Body Company.			
CAPACITIES (lbs.)			
GAWR/Front: 6,000			
GAWR/Rear: 12,000			
GVWR: 16,500 PKG			
Fuel Tank (gallons): 30 minimum			
SUSPENSION/STEERING			
Type, front: Solid mono-beam axle w/6,000 lb. rated twin coil springs			
Type, rear: Solid axle w/12,000 lb. rated multi-leaf springs			
Shock Absorbers (front & rear): 1-3/8" gas type			
Stabilizer Bar: Front and Rear			
Steering Type: Power, variable ratio			
TIRES/WHEELS			
Tires, front: LT225/70R x 19.5G All Season			
Tires, rear: LT225/70R x 19.5G On/Off Road			
Wheels: 19.5" x 6", hub-piloted, 10-hole, steel			
Spares: One each front and rear, mounted.			
ELECTRICAL			
Battery (CCA @ 0° F): Dual 78AH/750 CCA (ea.), 1500 CCA total			
Alternator (amps): 140			
ENGINE			
6.8 Liter V10 with propane pkg			
Cooling system: heavy duty			
Engine oil cooler: high capacity			
TRANSMISSION			
5-speed TorqShift Automatic w/OD, or approved equal			
Transmission cooler			
BRAKES			
Front and Rear: Power-assisted, 4-wheel disc, ABS, 2-piston			
REAR AXLE			
Limited Slip w/4.88 axle ratio			
CAB EXTERIOR			
Black molded running boards			
Headlamps: Halogen			
Roof marker lamps			
Rear back up alarm			
Mirrors: Exterior, West Coast type (LH and RH stainless steel; mirror head approx. 7.0" X 16.0") with spot mirrors, or approved equal			

COMPLIES WITH SPECIFICATIONS?	YES	NO	EXPLAIN DEVIATIONS
CAB INTERIOR			
Air Conditioning			
Radio: AM/FM stereo with digital clock			
Full gauges to include: fuel level, oil pressure, engine temperature and voltmeter, up fitter switches, electric brake controller			
Warning lights for low oil pressure, engine temperature and low voltage			
Seat: Front bench, 3-passenger, heavy-duty vinyl			
Rubber floor mat			
Windshield wipers: intermittent			
Air Bags: Driver and passenger			
MISCELLANEOUS			
Snow Plow prep package, ½ steel H.D Trailer hitch plate with pintle hook			
Frame-mounted front tow hooks			
7-wire trailer wiring harness (routed to end of frame w/receptacle)			
Color (exterior): Tangier/Omaha Orange. State Manufactures code: _____.			
Interior Trim: Medium/Dark Grey			
DUMP BODY			
Henderson Mark-Three cross memberless type, dump body or approved equal. Specify Make: _____ Specify Model: _____			
DIMENSIONS			
Capacity: Shall be 3 – 4 yd ³ .			
Inside Length: 9'			
Inside Width: 85"			
Side Height: 18"			
Tailgate Height: 24"			
Headsheet Height: 44"			
SIDES			
Sides, to be 12-gauge steel			
Boxed top rail and bottom rub rail are all seamless and sloped outward.			
Full depth rear corner posts are tied to a 5" structural channel rear apron.			
HEADSHEET			
Headsheet to be 12-guage steel			
There shall NOT be any punched windows in the headsheet as this allows material to leak out, between the headsheet and back of cab.			
FLOOR			
One-piece seamless 3/16" steel			
2" floor to side radius			
Crossmemberless Unibody design			
One-piece 5" X 10.0 lbs. /ft. I-beam long sills			
Maximum 9" mounting height			

COMPLIES WITH SPECIFICATIONS?	YES	NO	EXPLAIN DEVIATIONS
TAILGATE			
Double wall 12-gauge steel sheet with full perimeter boxing, and all horizontal edges sloped outward.			
Flush mount, off-set tailgate hinge plates with easy-release pins.			
1" top and 1-1/4" bottom latch pins			
Manual over-center tailgate release mechanism with rubber covered handle.			
HOIST			
Single, 3-stage telescopic cylinder			
N.T.E.A. class 20, 9.5 tons capacity @ critical angle (start of 3 rd cylinder), 19.1 tons liftoff capacity			
Trunnion mounted; Lift point must be at the bottom of the body for stability.			
Trunnion lift point must be by an oscillating collar to reduce cylinder side loading, and premature seal wear.			
Cylinder must be of a bore-seal design, so seals work against a clean surface. Adjustable packing nuts are not acceptable.			
Wear and corrosion resistant nitrided cylinder tubes			
Hydraulic plumbing and fan belt hydraulics with cable controls included			
Minimum 2 year cylinder warranty			
SUB FRAME & REAR HINGE ASSEMBLY			
Hinges must hold body long sills over truck frame with body raised, and truck moving.			
Full sub-frame cradle and rear hinge assembly			
1-1/4" diameter pins connect through 4" hinge bushings			
PAINT PREPARATION			
All surfaces are to be high pressure cleaned and phosphated.			
Primed with an epoxy ester primer – underside to be primed black.			
Finish painted to match color of truck cab.			
MISCELLANEOUS			
12" X 82" cab shield			
One-piece, 12-gauge steel sloping sideboards.			
Wedge shaped steel light enclosures, accommodating three (3) oval lamps each, shall be solid welded to the outside rear corner posts of the body.			
Mud flaps in front of and behind rear tires. No advertising is allowed.			
TARP SYSTEM			
A Pull tarp 8.5" Super Shield system, no exception, shall be mounted on cab protector.			
The tarp system shall provide for manual covering of load from ground, automatic uncovering of load.			
An Aerodynamic steel cover shall completely protect system from falling debris.			
A spring-tensioned roller shall automatically roll-up and store the tarp.			

COMPLIES WITH SPECIFICATIONS?	YES	NO	EXPLAIN DEVIATIONS
There shall be a ratcheting mechanism to permit adjusting the spring tension externally with a ¾" wrench.			
A rope permits the tarp to be pulled to cover the load, with tarp return ramps at the rear to secure the tarp when covering the load.			
Storage hooks shall be provided at driver side front and rear for rope storage.			
The tarp shall be a 14 oz. Asphalt coated tarp, coated on both sides. It must be able to withstand temperatures of 400 degrees without melting or sticking.			
The tarp assembly shall be mounted to the vertical portion of cab shield, as high as possible, to minimize billowing of tarp.			
HYDRAULIC SYSTEM			
A fan belt-driven hydraulic system of the appropriate manufacturers recommended sizing shall operate the dump and spreader. Note: Only one of the two trucks covered under this specification shall be equipped with a tailgate spreader and snowplow.			
The above system shall include a (minimum) 15-gallon reservoir, with in-tank filter, cable control, and spreader valve.			
Hydraulic hoses with JIC fittings shall be used.			
Black iron pipe and elbows are not acceptable.			
All high-pressure lines shall use o-ring type fittings; with swivel fittings on both ends, pipe thread not acceptable.			
All hoses and control cables shall be securely fastened with rubber-coated steel clamps, and shall be protected with rubber grommets wherever they pass over sharp edges.			
All quick couplers shall be stainless steel, poppet style, with dust covers. No exception.			
Provide all pipe fittings, hoses, and any other necessary attachments to complete the unit for operation. System is to be filled with 10W hydraulic oil meeting the appropriate grade specifications. Installation is to include black painting of pump, valves, mounting places and hose clamps, etc.			
Note: A "dead head" condition must not be created at the spreader connections when the spreader is off, or removed from the truck.			
ELECTRICAL SYSTEM			
Cab Lighting			
Beacon: Force 4 / Code 3 PSE, Inc., Model 6105H with amber lens shall be mounted on the cab roof and power supplied by a switch in the switch panel. The beacon assembly and wiring shall be sealed to prevent leakage of water into the cab.			
Body Lighting			
Stop/Turn/Tail lights and backup lights shall be flush mounted with rubber grommets in the rear corner posts of dump body. Note: In the event there is insufficient room in the rear corner posts for installation of STT lights, then they shall be installed in the lower opening of the rear-mounted light wedges.			

COMPLIES WITH SPECIFICATIONS?	YES	NO	EXPLAIN DEVIATIONS
Buyers 6 light L.E.D Lighting pkg			
Two set mounted in rear of body in sealed light box			
One set mounted in front of cab shield w/ angle iron guard.			
Four amber tri-flash L.E.D lights that flash independently of each other. Lights mounted in rubber grommets with sealed wiring and connections			
The stop/turn/tail (STT) light assemblies shall be Trucklite brand of oval type, with polycarbonate lens and sealed housing, rubber grommet mounted.			
The backup light assemblies shall be Trucklite brand of round type with a white polycarbonate lens and sealed housing, rubber grommet mounted.			
The STT, body markers, spreader light, and backup light wiring shall be continuous from the junction box to the light assemblies. The wiring shall be Betts product 14 ga., 6-conductor trailer cable. Each wire (including the strobe wiring) shall be individually numbered, and a wiring diagram showing the numbered circuits shall be supplied for each truck. A nylon mesh wrapping for protection shall enclose the wiring harness. The wiring shall connect at the in cab junction box, located at the rear wall of the cab. A rubber grommet shall protect the cable where it passes through the cab sheet metal. The wiring shall enter the light box from inside the body corner post, with a rubber grommet to protect the cable where it passes through the body. A separate conductor cable shall be used for right and left light assemblies. The wiring shall be connected at the light assemblies with Weather Pak connectors.			
Sander Light: Shall be a rubber housed sealed beam light, Signal Stat # 620 w/housing and with #4411 flood lamp, shall be mounted at the lower left rear corner of the body corner post so as to illuminate the salt spread pattern. Power shall be supplied via a switch in the master control panel, and fed to that light by means of one of the unused conductors in the conductor cable that feeds power for the left rear STT light.			
All wiring is to be continuous once it leaves the protected environment of the cab (no splicing).			
All connections shall be Weather Pak type, sealed connections.			
Plow Lights			
See "Front Snowplow" specifications			
SWITCHES			
Upfitter switch panel			
The switch panel shall be visible to the operator at a glance and be located to the driver's right within easy reach with the operator seated. It shall be installed so as not to interfere or conflict with other controls or functions in the cab.			
The panel shall contain a minimum of four (4) lighted rocker switches.			

COMPLIES WITH SPECIFICATIONS?	YES	NO	EXPLAIN DEVIATIONS
The lighted rocker switches shall control the following (on/off) functions: Beacon, amber warning lights (strobes), sander light and fan belt hydraulics.			
Each of the switches shall be labeled and backlit, with the exact description of the function controlled.			
Each switch shall include magnetic circuit breaker protection. The circuit breakers shall not reset unless the overload has been corrected.			
The Wired-Rite switch panel shall function through a power distribution box consisting of NEMA 12 series enclosure, in cab mounted, readily accessible by mechanics.			
This panel shall obtain power directly from the truck batteries via an 8-gage wire from an 80-amp/100% duty cycle solenoid (Cole Hersey # 24106) protected by a manual reset 60-amp circuit breaker. The ignition switch shall energize this solenoid.			
WIRING			
Trailer Receptacle: A corrosion resistant diecast metal 7pin receptacle shall be installed in the hitch plate. Wiring shall be continuous from the (in cab) junction box to the trailer receptacle.			
An electrical trailer brake controller shall be installed in a suitable location in the vehicle cab.			
If not previously specified above; all wiring is to be color-coded and a minimum of 16-gage.			
All wiring from the control panel is to be continuous once it leaves the protected environment of the cab (no splicing).			
All wiring shall be in a sealed loom and securely fastened.			
All component connections shall be made with Weather Pak connectors and sealed to prevent corrosive capillary action.			
All electronics shall be designed to work together as a unit. All literature must contain information on installation and operation of the units. Factory trained local support for installation, operation and troubleshooting of the electronics is mandatory.			
TRAILER HITCH			
A 1/2" back plate shall be installed in between the rear frame rails, welded and gusseted for support of a (Buyers PH-15) pintle hitch.			
Cutouts shall be made in the hitch plate to allow for chassis provided S/T/T lights. Chassis S/T/T lights shall be recess mounted behind the hitch plate.			
The (Buyers PH-15) pintle hitch shall be mounted to the hitch plate with grade 8 bolts and Stover nuts, and located 21" from level ground to rest point on the pintle hook.			
Two "D" safety chain eyes of 3/4" role stock steel shall be located to each side of the pintle hitch.			
The hitch and pintle hook when mounted shall not interfere with the spreader and spinner assembly.			
The trailer hitch and hitch plate shall be painted black.			

COMPLIES WITH SPECIFICATIONS?	YES	NO	EXPLAIN DEVIATIONS
PAINT PREPARATION			
All metal surfaces are to be high pressure cleaned with a phosphate solution to remove slag, splatter, oxide, and oil residue.			
Non-stainless steel parts are to be painted industrial enamel black.			
FRONT SNOWPLOW			
A BOSS snowplow 8, 6 or approved equal plow, complete with attachment, hydraulics and controls shall be provided. Specify make: _____ Specify model: _____			
The plow shall include low profile, dual beam halogen headlamps with combination park/turn signal lights that conform to federal safety standards. Vehicle light switch shall activate plow lights – no separate in-cab switch shall be needed. Smart touch straight blade hand control			
Blade guides			
Snow deflector			
Blade Width: 8-1/2'			
Blade Height: 29"			
Blade Gauge: 11			
Trip Springs: 4			
Vertical Ribs: 7			
Angling Rams: 1-1/2" X 10"			
Plowing Width (full angle): 7' 4"			
Disc Shoes: Cast iron			
Cutting Edge: 1/2" X 6"			
Timbren suspension kit shall be installed (if required for the particular chassis being bid) to prevent nose-diving or bottoming out of suspension.			
PICTURE/SPECS			
A picture brochure of unit and equipment, along with the manufacturer's specifications shall be submitted with bid.			
SAFETY REQUIREMENTS			
Complete unit shall meet OSHA, MIOSHA, and FMVSS standards and regulations.			
ADDITIONAL ITEMS			
<p>One (1) each of the following operator, service/repair and parts manuals shall be provided for each unit ordered, plus one additional copy of all parts manuals for the Macomb County Department of Roads Stockroom:</p> <ul style="list-style-type: none"> a) Truck Cab and Chassis and associated components. b) Body and associated equipment that includes, tailgate spreader and front plow. <p>Note: CD-ROM disc versions of the above manuals may be substituted where applicable. Some version, whether printed or electronic MUST be supplied.</p> <p>Failure to provide any of the above documentation at the time of delivery shall be grounds for invocation of the penalty clause as outlined in the Warranty Documentations Provisions section.</p>			

COMPLIES WITH SPECIFICATIONS?	YES	NO	EXPLAIN DEVIATIONS
WARRANTIES			
Cab and Chassis: To have full manufacturer's 3- yr/36,000 mile bumper-to-bumper warranty.			
Power train: 5yr/60,000 mi			
Engine: 5yr/100,000 mi			
Dump Hoist Cylinder: Two (2) year warranty			
Snow Plow: Two Winter Warranty			
Body Builder: State warranty periods and coverage for remaining Body builder provided components and work.			
WARRANTY DOCUMENTATION PROVISIONS			
<p>General Terms and Conditions: Warranty certificates or letters on all applicable and requested warranty items shall be provided to the end user upon delivery of the completed unit. All warranties shall start from the in-service date with the Macomb County Department of Roads.</p>			
<p>Penalty Clause: Failure to provide any of the above documentation at the time of delivery shall be grounds for withholding one thousand (\$1,000.000) dollars of the monies due for payment of the unit, until such time as the requested documentation is provided.</p>			