



City of Rochester Hills
Notice of Intent to Accept Proposals for
Five (5) Tandem Axle Dump Trucks
RFP-RH-11-048

DATED SEPTEMBER 7, 2011: The City of Rochester Hills is accepting proposals from qualified and experienced vendors to provide **Tandem Axle Dump Trucks** to satisfactorily support the City of Rochester Hills, City of Rochester Department of Public Services, and the Huron Clinton Metropolitan Authority.

Sealed proposals will be received by the City of Rochester Hills, at the **Purchasing Division/Fiscal Team, 1000 Rochester Hills Drive, Rochester Hills, MI 48309 until EXACTLY 3:00 p.m. local time, on Thursday, SEPTEMBER 29, 2011** at which time and place the names of proposers will be publicly read aloud.

The City of Rochester Hills officially distributes Request for Proposals (RFP) documents from the Purchasing Division or through the Michigan Intergovernmental Trade Network (MITN). Vendors are encouraged to register as a vendor at the MITN website to ensure they receive addendum information, if such information is issued. To do business with the City and become a registered vendor visit the City's website at www.rochesterhills.org, click on City Services, Purchasing, Bid Opportunities and link to MITN website.

THE CITY OF ROCHESTER HILLS RESERVES THE RIGHT TO REJECT ANY AND ALL PROPOSALS.

Any deviation from the specifications must be noted on the proposal.

Please submit proposal on or before the date and time given above to:

Lisa Cummins, CPPB
Senior Purchasing Analyst
Purchasing Division
City of Rochester Hills
1000 Rochester Hills Drive
Rochester Hills, MI 48309

All proposals **ten** copies (10 copies) must be submitted in a Sealed Envelope marked "**RFP – TANDEM AXLE DUMP TRUCKS**".



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BACKGROUND INFORMATION

The City of Rochester Hills (on behalf of themselves, City of Rochester, and the Huron Clinton Metropolitan Authority, collectively known as the “City” or “Cities”) is acting as the lead agency in the cooperative solicitation for the purchase of **FIVE (5) TANDEM AXLE DUMP TRUCKS**.

Please carefully review this document. It provides specific technical information necessary to aid participating firms in formulating a thorough response. A formal comprehensive review period will be conducted to ensure that the Cities select the best possible vehicles available at the best value to their entities.

To respond to this RFP, interested proposers must include a response to all criteria that are listed in this proposal. Failure to include a response to all the evaluation criteria may be cause for rejection.

Please carefully review this document. This document is a Request for Proposal. It differs from a Request for Bid/Quotation in that the Cities are seeking a solution as described herein, not a bid/quotation meeting firm specifications for the lowest price. Proposers are to provide their proposed solution based on their professional knowledge and developed around the general requirements defined within this proposal. As such, the lowest price proposed will not guarantee an award recommendation. Competitive sealed proposals will be evaluated based upon criteria formulated around the most important features of a product or service, of which quality, testing, references, or capability, may be overriding factors, and price may not be determinative in the issuance of a contract or award. The proposal evaluation criteria should be viewed as standards, which measure how well a proposer’s approach meets the desired requirements and needs of the Cities. The criteria that will be used and considered in evaluation for award are set forth in this document. The Cities reserve the right to award multiple contracts for the same or similar item(s).

The Cities will utilize their best judgment when determining whether to schedule meetings or demonstrations with shortlisted vendors, after receipt of all proposals. Meetings with shortlisted proposers and demonstrations of the proposed vehicles may provide additional information and criteria upon which the Cities may base a selection decision. The Cities reserve the right to select and subsequently recommend for award the proposed equipment/service, which best meets its needs, quality levels and budget constraints.

OBJECTIVE

The Cities have identified the following objectives for securing the product/services described herein.

1. Procure tandem axle dump trucks meeting the intent of the specifications and meeting the conditions and mandatory requirements presented in this document; provide the most cost effective acquisition based on proposals provided.
2. Procure tandem axle dump trucks with the best proven “track-record” of service.
3. Aggregate volume of agencies identified to achieve best value.

SUBMITTAL GUIDELINES

- A. Submit one (1) original and nine (9) copies;
- B. It is the proposer’s responsibility to clearly identify and describe the products and services being offered in response to this solicitation;
- C. The solicitation forms must be completed legibly and in their entirety;



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- D. All required information must be furnished and presented in an organized, comprehensive and easy to follow manner;
- E. Unnecessarily elaborate brochures of other presentations beyond that sufficient to present a complete and effective proposal is not desired; and
- F. Elaborate artwork; expensive paper, bindings, visual and other presentation aids are not required.

ADDENDA TO REQUEST FOR PROPOSALS DOCUMENTS

No interpretation or clarification of the meaning of any part of this RFP will be made orally to any vendor. Vendors must request such interpretations or clarifications from the Lead Agency. Request for information or clarification of this RFP must be made in writing and addressed to Lisa Cummins, CPPB at the address, fax, or email address listed below, with email being the preferred method of communication. Questions should reference the RFP page and section number.

Lisa Cummins, CPPB
Senior Purchasing Analyst
City of Rochester Hills
1000 Rochester Hills Drive
Rochester Hills, MI 48309
Telephone: (248) 841-2537 Fax: (248) 608-8178
Email: cumminsl@rochesterhills.org

Questions relative to this solicitation must be submitted to Lisa Cummins, CPPB, Senior Purchasing Analyst, City of Rochester Hills Purchasing Division, 1000 Rochester Hills Drive, Rochester Hills, Michigan 48309, in writing prior to **MONDAY, SEPTEMBER 19, 2011 at 12:00 (noon)**. No negotiations, decision or actions shall be initiated by any firm as a result of any verbal discussion with any individual Cities employee prior to the due date or during the evaluation process. All communications shall be conducted through the City of Rochester Hills Purchasing Division, unless specific written documentation is provided to the vendor.

The Cities reserve the right to change or amend the RFP documents, prior to the proposal due date by the issuance of Addendum posted on the MITN website. It shall be the vendor's responsibility to make inquiry as to the changes or addenda issued. All such changes or addenda shall be that document appearing on the MITN with amendments, addendums and updates. The authorized version of this Request for Proposal document shall be that document appearing on MITN with amendments, addendums and updates.

The Cities reserves the right to disqualify any proposer who contacts any City/Communities employee, representatives, or agent concerning this RFP other than in accordance with this section. Nothing in this section prohibits the City from conducting discussions with proposers after the proposal opening.

PRICING

Prices/discounts shall be F.O.B. destination freight pre-paid and shall include all charges that may be imposed in fulfilling the terms of this contract.

SCOPE OF WORK



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It is the intent of these specifications to cover the furnishing, delivery, training, warranty, and related services for a complete tandem axle dump truck equipped as hereinafter specified. With a view to obtaining the best results and the most acceptable tandem axle dump truck for service in the Cities Department of Public Services, these specifications only cover the general requirements as to the type of equipment with which the successful proposer must conform. Recommendations from proposers are encouraged and will be reviewed and evaluated based on the best interests of the Cities.

The purpose of this document is to provide minimum specifications and test parameters for the manufacture of the tandem axle dump trucks that meets the needs and desires of the participating entities. It establishes essential criteria for the design, performance, equipment, and appearance of the vehicle. The objective is to provide a vehicle that is in accordance with nationally recognized guidelines. All vendors and manufacturers must meet all state and local regulations regarding the manufacturing, licensing, and sale of tandem axle dump trucks within the state.

The Cities are seeking proposals for tandem axle dump trucks equipped with prewet system and trucks equipped with slide-in granular and liquid anti-ice systems. Proposer is requested to submit a proposal for one or both types of these vehicles. The individual Cities reserve the right to select or remove items identified within these general requirements to properly equip the individual Cities tandem axle dump truck. Additional unit pricing for these identified items must be provided as an add-on or deduct on the Cost Proposal Form provided.

The equipment being offered by the vendor shall be the most recent model available. Any optional components, which are required in accordance with the contract specifications, shall be considered standard equipment for the purposes of this solicitation. Omission of any essential detail from these specifications does not relieve the awarded vendor from furnishing a complete unit. The engineering, materials and workmanship associated with the effort performed hereunder shall exhibit a high level of quality and appearance consistent with or exceeding industry standards.

All vehicles shall be utilized mainly to provide Municipal snow and ice control, and roadway maintenance. It is the intent of this solicitation to cover the furnishing, delivery, training and warranty of a complete tandem axle dump truck(s) equipped as herein specified.

Vendor shall supply the City with comprehensive repair and parts manuals, which identify the component parts and which describe the appropriate process for repairing the equipment purchased by the City in conjunction with this solicitation. The manuals shall be supplied prior to, or upon, delivery of the equipment.

The City is also accepting alternate proposals for demonstration vehicles. The decision of whether to purchase a demonstration vehicle over that of a new vehicle will be based on the apparent greatest benefit to the City and the decision made will be in the City's best interest.

The following is a summary of the anticipated units to be purchased from this contract:

- The City of Rochester Hills desires to purchase three (3) tandem axle dump trucks (one (1) with tailgate spreader with prewet system and two (2) with slide-in granular and liquid anti-ice units).
- The City of Rochester desires to purchase one (1) tandem axle dump truck (one (1) with tailgate spreader



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with prewet).

- The Huron Clinton Metropolitan Authority desires to purchase one (1) tandem axle dump truck with (one (1) slide-in granular and liquid anti-ice unit).

CONTRACT INFORMATION

All proposers are held to proposal prices for ninety (90) days or award, whichever comes first, except for the successful proposer whose prices are to remain firm for the term of the contract. The City of Rochester Hills desires for vehicles to be delivered F.O.B. destination, freight pre-paid, Rochester Hills Department of Public Services Maintenance Facility, 511 Eat Auburn Road, Rochester Hills, Michigan, 48309 as specified with regards to the delivery date identified by the provider in their proposal. Delivery shall be made F.O.B. destination, freight pre-paid, to the following communities at the locations provided: City of Rochester Public Works Department, 1141 N. Wilcox, Rochester, Michigan, 48307, and Kensington Metropark, 2240 W. Buno Road, Milford, Michigan, 48380. All proposal prices shall be F.O.B destination, freight pre-paid and acceptance basis at the above identified locations on the specified delivery date, as provide in the proposal. Payment shall be made upon inspection and acceptance of the vehicle(s) and equipment specified under these specifications.

VEHICLE INSPECTION

Each vehicle delivered shall be subject to a complete inspection by the Cities' Fleet Division, or designated representatives prior to acceptance. Inspection criteria shall include, but not be limited to, conformity to the specifications, mechanical integrity, quality, workmanship and materials. If delivered vehicle is returned to the Contractor prior to acceptance for any reason, all corrections shall be made without any inconvenience to the City.

TESTING AND PRODUCT DEMONSTRATION

This information is only provided to assist vendors in understanding the nature, scope and procedures of testing, if required by the Cities.

The Cities DPS personnel and fleet technicians may test/review the proposed equipment to determine:

- Ease of Repair
- Accessibility of key components
- Type of components used
- Quality of components used
- Compatibility with existing tooling and equipment

Proposers must carry adequate insurance (as required herein) to cover any damage to the unit, which may occur prior to delivery and acceptance of the vehicles by the City.

All proposers shall consent to submission to the jurisdiction of the State of Michigan courts for purpose of any litigation arising from the specifications and contract documents, including but not limited to claims for property damage, warranty and breach of contract. The specifications, proposals and contract documents shall be construed under Michigan laws.

TITLE



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The awarded vendor must deliver with the vehicle to the Cities, the Title stating “The City of Rochester Hills”. “The City of Rochester” and the “Huron Clinton Metropolitan Authority” as the sole owner of the vehicle. A Certificate of Origin is not acceptable. No payment will be made to the awarded vendor until the title has been issued.

PRICES AND PAYMENTS

All proposal prices shall be on a F.O.B. destination, freight pre-paid and acceptance basis at the identified addresses above. These prices shall be complete and include warranty. Payment shall be made net 30 days from date of invoice and acceptance of the vehicle, equipment and specifications identified in this document. All such payments shall be subject to any deductions or reservation, which may be made in accordance with the terms of this contract.

It is the City’s intent to pay the Chassis manufacturer upon completion, inspection, and acceptance of the chassis as being in conformance with the specifications and delivery to the body company.

The Body Company will be paid upon final acceptance by the City that the truck is in conformance with the specifications and is ready to be placed into service. Separate purchase orders will be issued to the individual companies and bind both companies to the contract to deliver completed dump trucks.

The cost for the chassis and body will be priced separately and both companies will be required to sign the Signature Page included at the end of this proposal.

Payment shall be made from supplier’s invoice submitted to cover items received and accepted by the Cities designated representative. Invoices must contain the purchase order number under which the contract is awarded.

All quantities stated, unless indicated otherwise, are estimates and the City reserves the right to increase or decrease the quantity at the unit price bid as best fits its needs.

Vendors are cautioned that any units delivered to the F.O.B. point, which do not meet the specifications in every aspect, will not be accepted.

Partial payments are not authorized on purchase orders issued for this procurement.

COMPLIANCE/RESPONSE WITH GENERAL REQUIREMENTS

This section provides specific general requirements necessary to assist interested proposers in understanding the scope of the project and thus provide a thorough response to this document. Proposers must show in detail their ability to provide equipment which meets and/or exceeds the listed criteria. All specifications and requirements listed must be furnished at the time of delivery by the successful proposer.

ALTERNATIVES TO SPECIFICATIONS

All proposers will provide on a separate page titled “ALTERNATIVES TO SPECIFICATIONS” any exceptions to specifications they propose for the City’s approval. These alternatives will be clearly worded and supported by sufficient literature, engineering data, photos and other reference information as required for the City’s full review of alternative requested. All alternatives will identify the paragraph and page number of these



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specifications that these said alternatives pertain.

Alternatives to the specifications will be allowed if they are equal to or superior to that specified and provided they are listed and fully explained on a separate page entitled "ALTERNATIVES TO SPECIFICATIONS". Alternatives list will refer to specification page number and paragraph. Proposals taking exception will be reviewed and evaluated based on the best interest of the city. Failure to list any alternative means the proposer is complying 100% to the specifications.

VENDOR QUALIFICATIONS

All firms interested in participating in the selection process must meet, or exceed when applicable, the following requirements and provide verification and/or validity of compliance in the proposal response. The City reserves the right to require any verification deemed appropriate to ensure the proposer's qualifications to deliver the required tandem axle dump trucks, as described herein.

1. Proposals will only be considered from companies, which have an established reputation in the field of tandem axle dump truck construction and have been in business for a minimum of ten (10) years.
Does your proposal comply Yes___ No ___

2. Firm(s) must have supplied products for governmental entities, or commercial customers of similar size and complexity as described herein.
Does your proposal comply Yes___ No ___

3. Firm(s) must be able to supply a minimum of five (5) references capable of verifying past/present exemplary levels of workmanship.
Does your proposal comply Yes___ No ___

4. Firm(s) must be the vendor or manufacturer of the proposed vehicles and have the capability of providing warranty service for the proposed vehicles.
Does your proposal comply Yes___ No ___

5. Firm(s) must have the ability to provide warranty on all components for the trucks proposed and warranty plans commensurate with the manufacturer's specifications.
Does your proposal comply Yes___ No ___

6. Firm(s) must be able to provide service, parts and electrical manuals for all models procured.
Does your proposal comply Yes___ No ___

7. Firm(s) must, to protect the community in the event of litigation which might arise from an equipment failure induced incident, supply with their proposal proof that the manufacturer of the proposed vehicle(s) has valid product liability insurance coverage with a minimum limit of \$1,000,000.
Does your proposal comply Yes___ No ___

PRODUCT REQUIREMENTS



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VENDOR SHALL COMPLETE EVERY SPACE IN SECTION 2: PROPOSAL (right hand column) with an "X" to indicate the specification is being EXACTLY met, or, with a description of ANY DEVIATION from the specification.

FAILURE TO COMPLETE EVERY SPACE ON THIS FORM MAY DISQUALIFY PROPOSAL!

SECTION 1:
SPECIFICATIONS:

SECTION 2:
PROPOSAL:
Comply: Yes/No

=====

GENERAL SPECIFICATIONS:

- A. This specification covers the furnishing, delivering and demonstration of THREE, new, current model, tandem axle, 10-12 yard dump trucks equipped with front snow plow, underbody scraper, roll up style tarp, slide-in granular & liquid anti-ice system (2 trucks), under tailgate material spreader, and prewet system (one truck). Trucks will be primarily used for Municipal snow and ice control and roadway maintenance. _____
- B. Vehicles shall be delivered with all specified equipment installed new and fully functional. _____
- C. Provide the following information on the units being proposed :
 - 1. Year of trucks. _____
 - 2. Manufacturer of trucks. _____
 - 3. Model of trucks. _____
 - 4. Manufacturer and model of engine. _____
 - 5. Manufacturer of dump body. _____
 - 6. Model of dump body. _____
 - 7. Manufacturer of front snow plow. _____
 - 8. Model of front snow plow. _____
 - 9. Manufacturer of underbody scraper. _____
 - 10. Model of underbody scraper. _____
 - 11. Manufacturer of tarp. _____
 - 12. Model of tarp. _____
 - 13. Manufacturer of granular & liquid anti-ice system. _____
 - 14. Model of granular & liquid anti-ice system. _____
 - 15. Manufacturer of under tailgate spreader. _____
 - 16. Model of under tailgate spreader. _____



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17. Manufacturer of prewet system. _____

18. Model of prewet system. _____

19. Truck Equipment installer. _____

D. Vendor shall submit with proposal the latest printed specifications and advertising literature on the truck cab and chassis, dump body, front snow plow, underbody scraper, tarp, slide-in granular & liquid anti-ice system, under tailgate spreader, hydraulic controls and prewet system. _____

E. Vendor shall submit written terms and conditions of all standard **and any** available optional extended warranty coverage. _____

F. At time of delivery, vehicles shall conform to all applicable U.S. Department of Transportation and O.S.H.A. regulations. _____

G. Truck cab shall be highway (Omaha) orange or equal. Dump body, slide in units and tailgate spreader shall be bright mill finish. _____

H. Interior color should be gray. _____

I. Freight of units, and all associated items (spare tires, manuals, etc.) shall be F.O.B.: _____

City of Rochester Hills
Fleet Services Garage
511 E. Auburn Rd.
Rochester Hills, MI. 48307

City of Rochester Public Works Department
1141 N. Wilcox
Rochester, MI 48307

Kensington Metropark
Service Garage
2240 W. Buno
Milford, MI 48380

J. **Pre-build meeting.** After delivery of chassis/cab to body vendor and during various stages of assembly, vendor agrees to allow the City's Fleet Manager and other City personnel to consult with vendor's shop supervisor or equivalent regarding exact placement of various components such as control console, lighting, body steps, underbody scraper, prewet tank and pump, etc. _____

K. Positioning of all controls, joysticks, switches, lights and accessories shall be determined by the City's Fleet Manager during production. _____

L. All switches, joysticks, controls, indicator lights, and hydraulic valve solenoids shall be permanently and clearly labeled with proper function. _____

M. The city will provide photographs on request of specific components and systems on dump trucks currently in service to assist the successful vendor in the proper fabrication, placement and installation of said items. _____



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CAB AND CHASSIS:

- A. Weight Ratings, Suspension and Axles.
 - 1. 58,000# minimum gross vehicle weight rating. _____
 - 2. 18,000# front suspension, 18,000# setback front axle. _____
 - 3. Front shock absorbers, heavy duty double acting, telescopic. _____
 - 4. Oil lubricated front wheel bearings with sight glass level check filled with synthetic oil. _____
 - 5. Hendrickson Primaax PAX462 46,000# vocational air ride rear suspension with dual leveling valves. _____
 - 6. Dash mounted air suspension switch/valve shall allow rear suspension air pressure to be released/filled at the driver's discretion. _____
 - 7. Single speed rear axles with gear ratio configured to allow the vehicle a top road speed of 63-65 mph (indicate gear ratio). _____
 - 8. Rear axles shall have lube pump and **synthetic axle lubricant**. _____
 - 9. Driver controlled main differential lockup on both axles with dash mounted light indicating differentials locked. _____
- B. All vehicle components such as springs, brakes, axles etc. shall meet or exceed requirements of gross vehicle weight rating. _____
- C. Diesel Engine.
 - 1. Electronically controlled with on-board engine management computer & diagnostic data connector (indicate make & model). _____
 - 2. Common rail high pressure fuel injection system. _____
 - 3. 300 horsepower, 850 lb/ft torque minimum rating. _____
 - 4. Radiator shall be maximum available cooling capacity. _____
 - 5. All coolant hose clamps shall be constant tension or Perma-Shrink. _____
 - 6. Cooling fan clutch, on-off type with dash-mounted driver controlled switch with "on" indicator light to turn fan on at driver's discretion. _____
 - 7. -30⁰F. minimum **extended life** antifreeze protection. _____
 - 8. Air filter restriction indicator. _____
 - 9. Engine shall be approved for B10 Biodiesel without affecting warranty. _____
 - 10. Indicate method used to conform to 2010 EPA NOX emission standard. _____
- D. Transmission and Driveline.
 - 1. Allison 3500RDS 6 speed automatic transmission _____
 - 2. Dash mounted push button gear selector with mode switch. Selector shall be mounted as close to the hydraulic joystick control as practical. _____
 - 3. Factory filled synthetic transmission oil. _____
 - 4. Transmission overheat light. _____
 - 5. 12 volt "smart" back up alarm, Ecco model SA 901, or approved equal. _____
 - 6. Half round Meritor 176T universal joints. _____
- E. S-Cam Air Brakes.
 - 1. 18.7 cubic foot/minute minimum compressor rating. _____
 - 2. Meritor system saver 1200 heated air dryer mounted so cartridge is easily servicable. _____
 - 3. Rockwell Q Plus S-Cam brake shoes on rear axles. _____



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- 4. Outboard mounted brake drums. _____
- 5. Haldex automatic slack adjusters front and rear. _____
- 6. Rear brake chambers shall be Haldex Anchorlok Life-seal. _____
- 7. Pull cord style drain valves on all air tanks, with pull cords accessible from side of vehicle. _____
- 8. Brake dust shields on all axles. _____
- 9. ABS control module should be mounted inside cab. _____
- F. Frame.
 - 1. Single channel frame shall be a minimum of 120,000psi yield strength. _____
 - 2. Minimum 2,550,000 inch pound RBM (resisting bending moment) rating. _____
 - 3. Huckbolt chassis fasteners. _____
 - 4. Integral (not bolted or huck fastened), reinforced, complete front frame extension of sufficient length for snow plow quick hitch and hydraulic pump mounting. _____
 - 5. Two tow hooks front, two tow hooks rear. _____
- G. Wheels and Tires.
 - 1. Wheels shall be 10 hole steel hub piloted disc with white powder coat finish. _____
 - 2. All tires shall be tubeless, radial ply. _____
 - 3. Rear tires: Goodyear 282 MSD11R22.5, LR/H or approved equal. _____
 - 4. Front tires: Goodyear G287 HSS 315/80R22.5 LR/L or approved equal. _____
- H. Steering
 - 1. Shall be integral, hydraulic power assist. _____
 - 2. Steering column shall be tilt adjustable from driver's position. _____
 - 3. Steering hydraulic pump shall be gear driven (no belts). _____
 - 4. All linkage components shall have grease fittings. _____
- I. Exhaust System.
 - 1. Vertical exhaust with stainless steel guard, should be located near right rear corner of cab. **Exhaust system shall not be mounted to cab.** _____
 - 2. All exhaust components should be mounted at least 24" above road surface to allow adequate room for underbody scraper installation. _____
 - 3. All exhaust components should be of stainless steel construction. _____
 - 4. Exhaust shall terminate with a 90° bend and without a rain cap. _____
 - 5. Manual DPF regeneration inhibit switch, dash mounted. _____
- J. Fuel system.
 - 1. Fuel tank should be rectangular aluminum frame mounted (location TBD) with adequate clearance for underbody scraper. _____
 - 2. Minimum fuel capacity should be 50 gallons. _____
 - 3. Fuel tank shall have a fuel drain plug. _____
 - 4. Fuel system shall be equipped with a heated fuel/water separator with integral primer pump. Please state make and model number. _____
- K. Electrical System.
 - 1. 12 volt negative ground system. _____
 - 2. Solid state circuit protection with fuses. _____



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- 3. 3 Group 31 batteries with threaded studs, minimum 950 CCA rating per battery mounted in non-metallic battery box with steel base. Please state battery box material composition. Remote jump start stud with tethered insulated cover. _____
 Factory installed battery disconnect switch mounted left side of drivers position. Switch shall be installed to retain all necessary memory and diagnostic functions to engine, transmission, etc. when the switch is in the off position. Green LED light on dash indicating switch on.
NOTE: Huron Clinton Metropolitan Authority requests battery shutoff to be located at battery box. Location TBD at build. _____
- 4. Minimum 160 amp output alternator (state output amperage). _____
- 5. All electrical connections except those inside the cab shall be weather pack type and meet N.E.M.A -4 specifications. All non-factory connections should maintain the same wire color on both sides of the connection. _____
- 6. All wires shall be protected from abrasion by a protective loom or cable. All wiring passing through steel shall be protected by a grommet. Wires routed to cab shield area (LED lights, tarp motor) shall be enclosed in rigid conduit. _____
- 7. Control pedestal mounted switch panel with dual intensity switches shall be provided to house all accessory switches and indicator lights. Switch function label shall be backlit low intensity with switch off, high intensity with switch on (dymo tape, decals & adhesives are not acceptable). Each switch shall have a separate magnetic circuit breaker. Master circuit breaker and ignition relay shall be provided.
 Indicate manufacturer of switch panel. _____
 Switches shall include:
 - a. Amber flashing LED lights. _____
 - b. Snow plow Lights. _____
 - c. Underbody scraper lights. _____
 - d. Tailgate spreader lights. _____
 - e. Fan clutch on/off (if not factory equipped by chassis mfg). _____
 - f. Body vibrator. _____
 - g. Snow plow balance valve
 - (1) Red - Low hydraulic oil level. _____
 - (2) Amber - Dump body up. _____
 - (3) Blue - Prewet tank level low (if not on spreader control display). _____
- 8. Battery cable (#6 minimum) type ground cable between chassis and dump body at body hinge area. _____
- 9. Any add on body Company wiring for lights and auxiliary equipment shall be ran into cab and terminated or junctioned in a back of cab wall junction box. Junction box to have clear cover attached with screws for ease of mechanic access. Separate terminal strips to be provided for power and ground circuits. A fuse block with all fuses labeled shall be provided as well as a continuous duty solenoid wired to the accessory circuit on the truck ignition. _____
- 10. Mounting location of all electrical components such as solenoids, relays, _____



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junction boxes, wiring connectors, plugs, controls, lighting components, actuators etc. shall minimize exposure to snow & ice control chemicals and road spray.

L. Lighting.

1. All body lighting shall be manufactured by SoundOff Signal or Whelen Engineering Company Inc.
2. All dump body stop/turn/tail lights, reverse lights, marker lights, spreader lights, underbody scraper lights and amber warning lighting should be LED (light emitting diode) type. All amber warning lights shall be linear style super LED type.
3. Dump body stop/turn/tail lights and rear facing amber flashing lights shall be mounted in an angled **stainless steel** protective enclosure to outside of rear of corner posts (exact location shall be determined by the City's Fleet Manager during production). 4 amber warning lights (two each side) mounted top and bottom positions in lighthouse enclosure. Enclosure shall completely cover all light & wiring connections. 2 oblong reverse lights shall be mounted in rear corner posts. Photos of a city dump truck with properly configured lighting are available upon request. Material spreader external spill shields/support arms shall not interfere with lighting visibility from behind vehicle.
4. Chassis stop/turn/tail lights should be LED mounted to the truck frame, Below the body, visible from behind truck when material spreader is attached.
5. 2 flashing oval amber warning lights with rubber grommet mounts shall be mounted (1each side) to the forward facing outside corners of the cab protector. 2 flashing oval amber warning lights with rubber grommet mounts shall be mounted (1each side) to the forward corner of the cab protector facing the left and right sides of the truck.
6. All exposed wiring shall be protected by a rigid conduit. Four amber LED warning lights (two each side), mounted vertically 60" above road surface in forward and rear body corner posts facing to side of truck.
7. All amber warning lights shall be controlled by one single switch.
8. Two LED 4" work lights (one each side), with rubber housings shall illuminate road surface below spreader (mounting location TBD).
9. Scraper shall be illuminated by two 4" LED work lights (one each side), with rubber housings, mounted above scraper underneath inside of tank frame. Lights shall not protrude beyond side of vehicle.
10. Factory 2 position dash mounted headlight/snowplow light selector switch.
11. City's Fleet Manager will determine **EXACT location** of all lighting during production.

M. Cab/Hood.

1. Power remote control left and right west coast style stainless steel **heated** rear view mirrors each measuring not less than 6" X 16".



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- 2. Left and right side stainless steel convex mirrors measuring not less than 12 inches in diameter (mounting location TBD). _____
- 3. Intermittent, electric windshield wipers with electrically operated washers. _____
- 4. Electric windshield defroster grid low on windshield where wipers rest shall Prevent ice build-up. Grid shall activate when defroster is on. _____
- 5. Fully adjustable cloth air suspension driver’s seat. _____
- 6. Fixed position cloth passenger seat. _____
- 7. Quick access hood opening for fluid & component checks. _____
- 8. Stationary grille if grille interferes with snow plow/plow hitch when hood is tilted forward. _____
- 9. Positive cushioned hood stops to prevent damage to hood, and contact with snow plow hitch, bumper, or other components. _____
- 10. Hinge pin locks or prop rod(s) to lock hood in open position. _____
- 11. Full size mud flaps, both sides located behind front tires. **No advertising on any mud flap!** _____
- 12. Deluxe sound suppression insulation & premium interior package (no exposed sheet metal). _____
- 13. High output heater/defroster with cabin air filter. _____
- 14. Factory installed in-dash air conditioning. _____
- 15. Dual air horns, roof mounted, with snow shields. _____
- 16. Factory installed Am/Fm radio. _____
- 17. All cab glass tinted with opening wing/vent windows in doors. _____
- 18. All hardware such as steps, grab handles, etc. necessary to allow D.O.T. approved method of entry and exit of both doors. _____
- 19. Three full sets of vehicle keys. _____
- 20. Instrument panel shall include analog style speedometer, tachometer, engine coolant temperature, engine oil pressure, fuel level, voltmeter, primary and secondary air pressure gauges. _____
- 21. Dash mounted 12 volt hour meter. _____
- 22. Dash mounted 12 volt accessory power plug. _____
- 23. Suspended brake and accelerator pedals. No floor mounted pedals. _____
- 24. Ground speed sensor wire shall be provided for ground speed spreader controller input. _____
- 25. Minimum 2 gallon windshield washer reservoir mounted under hood. _____

LOAD SENSE HYDRAULIC SYSTEM:

The intent of these hydraulic system specifications is to describe a complete central hydraulic system and controls for a Municipal snow and ice truck. The components described herein have been chosen for their ability to provide optimum functionality, long term durability, and ease of maintenance. Bidders may bid alternates, but it will be Rochester Hill’s Fleet Services Division’s decision on whether they are considered equal.



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- A. System shall provide hydraulic oil for operation of dump body with double acting hoist, granular and liquid anti-ice system or material spreader, snow plow with power angling, underbody scraper with power angling and prewet system. _____
- B. **System shall allow above items to be operated simultaneously or individually without interfering with the efficiency of each other.** _____
- C. Box cycle time should not exceed 30 seconds. (Cycle time = Beginning with a fully loaded box, raise box to end of lift cylinder travel, lower box to it's fully lowered position.) _____
- D. Hydraulic pump
 - 1. Shall be a load sensing, variable displacement, pressure compensated piston pump driven via the engine crankshaft. Compensator shall be bolt-on for ease of maintenance. Side facing SAE porting. Cast iron housing with SAE "C" 4 bolt mounting flange. Sauer Danfoss Series 45F model F90B or approved equal. _____
 - 2. Displacement shall be (90cc) per revolution maximum. _____
 - 3. Pump shall be front mounted between the truck frame rails to a 6" structural channel cross member which shall be bolted, not welded to the truck frame extension for serviceability. _____
 - 4. Pump shall be direct drive from the engine crankshaft via a Spicer 1310 series automotive type tubular driveline and Spicer "lube for life" universal joints and greasable slip yoke. Flange yoke at the engine crankshaft and a flange yoke and companion flange for ease of removal at the pump. driveshaft shall not pass through the radiator. _____
 - 5. System shall incorporate a low oil shut down feature with in-tank low oil sensor which shall automatically shift PTO off when tank oil level is low. Circuit shall have a momentary shut down override switch. _____
 - 6. 2" suction line with a 100 micron suction strainer. No other restrictions between tank and pump. _____
 - 7. Hydraulic control valve and pump assemblies shall be of the same manufacturer to ensure compatibility and efficient performance. Valve shall include momentary and maintained overrides for all sections. Spool shifting shall be via a pilot network. Valve solenoids should be one piece assemblies. Valve should be a Sauer Danfoss PVG100/32. _____
 - 8. Underbody scraper down pressure circuit shall have an adjustable valve mounted port relief with adjustment assembly easily accessible. _____
 - 9. Dump body section down port shall incorporate a relief/anti cavitation valve to protect cylinder. _____
 - 10. Underbody scraper angle right & left circuits shall incorporate a cross port relief assembly mounted as close to cylinders as practical. _____
 - 11. All hydraulic fittings shall be standard JIC, or O-ring type. Barb type with radiator hose type clamps not acceptable. _____
 - 12. **All rigid pressure hydraulic lines shall be stainless steel tube type only!** No black iron, galvanized pipe or mild steel piping will be accepted. _____
 - 13. **No hydraulic hoses shall be routed inside cab.** _____



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- 14. Hydraulic lines under dump body to and from material spreader auger and spinner shall be stainless steel tube, identical to existing city dump trucks. _____
- 15. Numerous pipe tees and nipples used for a system return manifold will not be accepted. _____
- 16. Use of Teflon tape type sealing materials shall not be permitted anywhere in the hydraulic system. _____
- 17. All hoses, cables and wires shall be protected with rubber grommets wherever they pass through sharp edges or areas of possible abrasion and shall be securely fastened with **rubber coated steel clamps every 24"**. _____
- 18. The entire hydraulic system shall be flushed with an external filtration system prior to running the hydraulic pump. _____

- E. Combination hydraulic oil tank/valve enclosure.
 - 1. Valve should be mounted in a stainless steel combination valve enclosure/oil tank (if space permits). _____
 - 2. Tank should be 30 gallons oil capacity, (additional tank capacity shall allow for thermal expansion). Tank shall be completely cleaned and free of any foreign material such as welding slag, grinding dust, dirt or similar contaminants at time of installation. _____
 - 3. Tank shall be baffled to promote oil cooling and prevent oil aeration. _____
 - 4. Tank shall be equipped with a breather filter to minimize ingestion of contaminants. _____
 - 5. Hydraulic hoses leading into and out of the enclosure shall utilize bulkhead connectors. Lines inside the enclosure leading from the bulkhead fittings to and from the valve sections shall be schedule 40 stainless steel tubing. _____
 - 6. Pump suction line shall have an easily removable in-tank suction strainer. _____
 - 7. **ALL** hydraulic return lines (except pump case drain and pressure spike relief) shall run through a 10 micron in-tank filter. _____
 - 8. Tank shall be equipped with an easily accessible drain plug. _____
 - 9. Tank shall have a visible oil level indicator. _____
 - 10. Switch panel mounted low hydraulic oil indicator light. _____
 - 11. Valve enclosure shall have a protective cover removable without tools. Valve shall be easily accessible for cleaning & service. _____
 - 12. All enclosure fasteners and hardware shall be stainless steel. _____

- F. Controls
 - 1. Certified Power Freedom Series ACS, or City approved equal shall control all hydraulic functions, granular and liquid anti-ice system, tailgate material spreader, and pre-wet system. _____
 - 2. System shall be fully proportional CAN (controller area network) BUS managed electric over hydraulic with on-board real time diagnostics & event and data logging. _____
 - 3. Single proportional multi-function joystick with a minimum of 4 integral function buttons. Indicate type, manufacturer and model of joystick. _____
 - 4. Controls shall be mounted on a fully adjustable pedestal with integral arm _____



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rest and adjustable accessory bracket for mobile radio. Please indicate make & model of pedestal:

5. Positioning of control pedestal and associated equipment shall be determined by the City's Fleet Manager during the pre build meeting.

DUMP BODY AND TARP:

A. Dump Body.

1. 10-12 yards capacity. 36" minimum side height.
2. Approximately 13' in length by 7' in width inside measurements.
3. Entire dump body and tailgate shall be formed from **7 gauge 304 Stainless Steel.**
4. Understructure shall be "western" type (no cross members).
5. Longitudinals should be steel I-beam 8 inch maximum height. If formed or trapezoidal longsills are used, they must be stainless steel. Indicate type, material and height.
6. Body shall have horizontal side brace(s), no vertical side braces.
7. Boxed top rail, horizontal side brace, and bottom rub rail shall be seamless and sloped outward to shed material.
8. Floor shall be one piece 3/16" AR400 steel with 5" floor to side radius with a minimum 72 inches of flat floor between left & right floor to side radius.
9. 1/2 cab protector, notched right side to allow vertical exhaust clearance if required.
10. **All body welds shall be continuous, skip welding unacceptable.**
11. **All brackets, steps, gussets, conduit, etc. attached or welded to body shall be the exact same grade of steel as the body itself. 308LSI wire or rod shall be used when welding on 304 stainless steel components. No mild steel welding rod or wire shall be used on stainless steel. All weld spatter shall be removed.**
12. Dump body shall be equipped with a heavy duty electric vibrator centrally mounted on heavy duty stainless steel "C" channel under body floor. A 1/4" safety chain shall prevent the vibrator loss in the event of mounting failure. Indicate vibrator make and model.
13. Dump body shall be equipped with a Roll Rite fully automatic tarp system, with aluminum hardware, sealed direct drive electric ball bearing gear motor and one piece enclosed spool assembly with built-in wind deflector.
14. Premium quality polypropolene 70% mesh tarp material.
15. Tarp switch shall include indicator light. **(solenoid and switch location shall be determined by City's Fleet Manager during production.)**
16. Tarp hardware (when opening or closing) shall not interfere with body access ladder or steps.
17. Air operated tailgate latches shall lock tailgate. **Tailgate shall remain locked closed if system air pressure is lost.**
18. Mud flaps in front of and behind rear axle tires. **NO ADVERTISING ON**



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ANY MUD FLAP!

- 19. OSHA approved body access ladder and grab handles, located near left front corner of dump body. Step(s) shall also be provided inside the body. A **stainless steel** grip strut walkway should be incorporated with top cab step for access to dump body ladder. (exact location of steps, handles and walkway shall be determined during production)
- 20. Two, 2" x 12" oak sideboards, (one each side).
- 21. Hand tool rack(s) shall secure 1 flat shovel, 1 pointed shovel, and 1 bow rake to body. Design and location shall be determined during build.

B. Tailgate.

- 1. Double acting.
- 2. Shall be formed from 7 gauge 304 **STAINLESS STEEL**.
- 3. Fully boxed and reinforced, all horizontal edges sloped outward.
- 4. Stainless steel 1-1/4 inch diameter upper tailgate pins.
- 5. Upper tailgate pivot points (hinges) shall have stainless steel or composite bushings with grease fittings.
- 6. Stainless steel 1-1/4 inch latch type lower tailgate pins.
- 7. **Stainless steel tailgate chains** with positive anti-jump locks.
- 8. Stainless steel gate latch linkage bushings with grease zerks. Latch jaw bushings shall also have grease fittings.

C. Body Hoist.

- 1. Mailhot CS series front trunnion mounted single telescopic cylinder with largest stage on the bottom (non-inverted).
- 2. Cylinder shall be double acting (power down).
- 3. Cylinder shall utilize u-cup type seals. No adjustable packing nuts.
- 4. All bushings, pins and pivot points on dump body, hoist, cylinder(s), and tailgate shall be replaceable and have an accessible grease zerk.
- 5. O.S.H.A approved body prop(s) and warning label(s).
- 6. Hoist frame and related components shall be painted black.
- 7. Dump body, hoist, and tailgate lock cylinder shall be covered under manufacturers warranty for a period of 3 years.

SNOW PLOW HITCH/FRONT BUMPER:

A. Hitch.

- 1. Shall be a quick hitch pin & loop type. Product reference: Henderson pin & loop low profile, Bonnell Industries QX low profile. State Make & model of truck side AND plow side: _____
- 2. Hitch shall be bolted to truck frame & include extra heavy duty bracing.
- 3. Plow lift cylinder to be 4" x 10" double acting.
- 4. **Plow shall have a minimum 12" clearance between cutting edge and road surface in its fully raised position.**
- 5. In raised position, plow cutting edge shall remain **parallel to road surface** regardless of reversing angle. (Indicate method or equipment to keep plow level during rotation) _____



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B. Bumper.

- 1. Open area between grille/bumper shall be covered with open grid type **stainless steel**.
- 2. Non-slip stainless steel steps (mounted below bumper) shall be provided for access to top of bumper (one each side).

SNOW PLOW:

- A. Shall be 10' wide, minimum 42" high, standard shield moldboard.
- B. Moldboard sheet thickness shall be 3/16" minimum.
- C. Moldboard shall be 100% continuously welded. Skip welds not acceptable.
- D. Moldboard shall be supported by a minimum of six 1/2 inch vertical ribs.
- E. Plow shall be full trip moldboard.
- F. 8" x 3/4" x 10' single piece cutting edge, top edge punched.
- G. Plow shall have a compression spring trip assembly. Extension trip springs not acceptable.
- H. Compression trip spring force shall be adjustable.
- I. Plow shall have adjustment for cutting edge attack angle.
- J. Plow shall have hydraulic reversible power angling with cushion valve.
- K. Reversing cylinders (two) shall be rebuildable, with 4" piston diameter.
- L. Plow shall have a minimum of 12" between road surface and cutting edge in fully raised position.
- M. Full width heavy duty push frame extending to outermost ribs of moldboard.
- N. Push frame shall have additional steel angle bracing extending to each end of push frame both sides.
- O. Plow lift hydraulic circuit shall include a fully adjustable plow balance valve designed to limit weight on the cutting edge and running gear. System shall be full loadsense type with 12 volt activation via switch panel mounted switch and shall not affect normal plow operation when turned on.
- P. 2 Winter equipment company "CurbRunner Wrap round" carbide curb bumpers.
- Q. Moldboard shall have a 12" rubber snow deflector with reinforcing strip bolted across top of moldboard.
- R. Plow shall have two (2) Winter PNKTPM-36 cable core corner markers (one each side) mounted as close to the front corners of moldboard as practical.
- S. Snowplow headlights shall be mounted on hood. **Exact location of snowplow lights shall be determined by the City's Fleet Manager before installation.**
- T. Factory installed wiring and dash mounted switch for plow lights shall be provided.
- U. Plow hydraulic hoses shall be equipped with Safeway SS-10-4-10 stainless steel quick connect fittings. A manual release valve located near fittings shall be provided to allow venting of trapped line pressure when connecting or disconnecting plow quick connect fittings to truck.

UNDERBODY SCRAPER:

- A. Scraper moldboard shall be 1" by 20" by 10' heat treated carbon steel,



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- punched for S.A.E. standard cutting edge bolt holes. _____
- B. Circle shall be 1" minimum thickness. _____
- C. Hanger board shall have hardened, replaceable center pin bushing. _____
- D. Hinge shaft shall be greaseable, and have greaseable thrust bearings at each end. _____
- E. Moldboard shall be activated (up & down) by two, minimum 4" double acting cylinders. _____
- F. Moldboard shall be cushioned by two heavy-duty compression spring shock absorber assemblies. _____
- G. Scraper shall be capable of rotating 45° in each direction. _____
- H. Scraper shall have infinite plowing (rotation) positions. _____
- I. Scraper shall rotate by means of two 4" minimum reversing cylinders, with cross over relief valve. _____
- J. Scraper shall have the ability to rotate in the down position while plowing. _____
- K. Scraper shall be capable of being hydraulically rotated to a non-operating position with no part of the blade extending beyond outer edge of rear tires. _____
- L. All scraper hydraulic cylinders shall be rebuildable. _____
- M. Reversing and actuating hydraulic circuits shall have replaceable, adjustable relief valves. _____
- N. Mounting height shall provide for cutting edge to be completely worn out (1/4" from mold board) with moldboard cylinders fully extended (body empty). _____
- O. Cutting edge wear shall be even and consistent regardless of underbody rotation angle. _____
- P. Underbody should be set up to use 6" high cutting edges. Cutting edges shall not be included. The city will provide and install cutting edges after delivery. _____

SLIDE-IN GRANULAR AND LIQUID ANTI-ICE SYSTEM (on 2 trucks):

It is the intent of these specifications to describe a combination granular/pre-wetting/liquid anti-icing application system capable of transporting and spreading a granular material, liquid pre-wetting the granular material, and applying a liquid anti-icing product individually or all three simultaneously. The application system shall consist of a stainless steel v-box spreader with liquid storage in tanks mounted in the void area between the v-box spreader and the dump body sides, a chute/spinner assembly, and a prewet/liquid spray distribution system. The unit shall have an on-board control system that will accurately and automatically control the spread of granular material and or snow & ice control liquids no matter what the vehicle's speed or application rates are. Material shall automatically stop spreading when the vehicle comes to a stop, and automatically start spreading when the vehicle begins to move. The unit shall easily slide into and out of a standard 13 foot long tandem axle dump truck dump body, contain hardware to secure the unit while in use, and have an integral stainless steel self-storage stand for when the unit is empty and not mounted on the truck.

- A. Entire spreader, subframe and all hardware should be 304 stainless steel construction. _____



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- B. The body should be designed to accommodate the “doghouse” of a telescopic dump body lift cylinder. _____
- C. Minimum granular capacity should be 8 yd³ (struck). _____
- D. Minimum liquid capacity should be 800 gallons. _____
- E. Liquid spray system shall have the capability to evenly distribute anti-icing material to one, two or three lanes at one time at the operator’s discretion while the vehicle is in motion. _____
- F. Provisions shall be provided to easily and safely secure the unit in the dump body. _____
- G. Hinged heavy duty top cover grate screens. _____
- H. Hopper access ladder and grip-strut type catwalk(s) shall be provided. _____
- I. Unit shall incorporate a protective rear bumper. _____

GROUND SPEED CLOSED LOOP UNDER TAILGATE MATERIAL SPREADER (on one truck):

- A. Spreader shall be a true “ground speed” type providing for accurate distribution of dry granular and pre-wetted granular material. When the truck stops, both the auger and spinner shall stop simultaneously. When the truck starts, the auger and spinner shall start simultaneously. _____
- B. Entire spreader shall be **304 Stainless Steel**. _____
- C. Spreader auger shall be 5:1 gear reduction drive, powered by a rebuildable hydraulic motor. Motor shall include a magnetic RPM sensor that provides information to the electronic spreader control that will allow accurate material delivery at low application rates and low ground speed (closed loop). _____
- D. Spreader shall provide hinged full width upper and lower shields. Upper shield shall swing open 180° from closed position for clean out access. _____
- E. **304 stainless steel** spill shields shall be integral with spreader support arms. *Spill shields shall be configured to contain material within a fully loaded dump body when the body is raised to shift material towards spreader.* _____
- F. Spinner shall be mounted at the extreme left edge of the vehicle and shall be visible from the driver's position through the left west coast mirror. _____
- G. Spinner shall be mounted in such a manner so as to allow opening of lower shield for clean out without removal of spinner. _____
- H. Spinner to be free hanging from stainless steel rod, below discharge opening, without leveling rods. _____
- I. Spinner disk shall remain parallel to road surface regardless of dump body angle. _____
- J. Spinner shield shall be directly attached to spinner assembly. _____
- K. Spinner and auger shall be connected to truck with Safeway SS-10-4-10 stainless steel quick-connect hydraulic hose fittings. _____
- L. 18" diameter, replaceable poly spinner disc. _____
- M. Electronic ground speed controller shall have programmable application parameters (locked by key or password) and shall easily integrate with hydraulic valve controls and shall control auger, spinner and liquid application _____



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simultaneously. (indicate make and model of controller). _____

PREWET SYSTEM:

- A. System shall apply liquid material onto granular material at the spinner & shall be regulated by the electronic spreader control. _____
- B. System shall include tank(s), bronze positive displacement pump with stainless steel shaft, suction strainer with cleanable stainless steel screen, pump enclosure, hydraulic motor, solenoid operated flow control valve, flat pattern spray nozzle(s), anti-drain check valve, plumbing and electrical components as required. _____
- C. **All** components, parts, fasteners, etc. shall be manufactured from nonferrous, non-rusting materials. _____
- D. All fasteners shall be assembled with anti-seize compound. _____
- E. Liquid Pump.
 - 1. Solid brass positive displacement pump with oil supplied via a dedicated 7GPM single acting proportional valve section in the valve stack shall permit accurate liquid application rates at low RPMs. Flow control shall limit oil flow to prevent the pump from exceeding design maximum RPM. _____
 - 2. Flow control shall be electrically operated by the electronic spreader control to permit precise metering of the liquid at the spinner. _____
 - 3. Pump shall be direct-coupled to the hydraulic motor. _____
- F. A non-metallic weather tight enclosure shall house pump, motor, valve, and other components. _____
- G. Liquid Tank.
 - 1. Cross linked polyethelene tank with useable capacity minimum 120 gallons should be mounted between the dump body and truck cab. _____
 - 2. Fuel tank, hydraulic oil tank, batteries, hydraulic valve enclosure, and other components shall be mounted to the truck frame with consideration of even weight distribution to promote even suspension and underbody blade wear. _____
 - 3. Tank shall have a stainless steel support with stainless steel straps and bolts. _____
 - 4. Any part of the tank or system should not protrude beyond the side of the vehicle. _____
 - 5. Bottom fill circuit with ball valve and banjo 150F 1½” male cam lock coupler with cam lock cover. (cover shall be tethered to tank to prevent loss). Location of fill port shall be determined by the city’s fleet manager during pre-build meeting. _____
 - 6. A low liquid level light shall illuminate when 10% of tank capacity remains. _____
 - 7. System shall automatically shut off when the tank is empty to prevent damage to the pump. _____
 - 8. Necessary quick connect fittings shall be provided to allow auger & spinner to be easily removed. _____
 - 9. All liquid shall flow through a suction strainer before reaching the pump. _____



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- 10. An in-line check valve shall be located between pump and spinner quick connect fitting to prevent liquid from draining.

PAINT AND PREPARATION:

- A. All bare or primed steel being painted shall first be sandblasted to ensure maximum paint adhesion.
- B. Primer must be epoxy, compatible with polyurethane paint. Preference will be given to items that are factory powder coated.
- C. 304 stainless dump body, granular and liquid anti-ice system, and tailgate spreader shall be bright mill finish.
- D. Snowplow hitch and truck frame shall be painted black with polyurethane paint.

ADDITIONAL EQUIPMENT:

- A. Automatic lubrication system.
 - 1. Groeneveld or Lubecore pneumatically operated autolube system.
 - 2. Shall lubricate all grease points on the truck, except for points that rotate 360° (such as drive shaft universal joints).
 - 3. Lubrication cycle times shall be adjustable in 30 minute intervals from 30 minutes to 5 hours.
 - 4. Each lubrication point shall have provisions to adjust the amount of lubricant delivered per cycle.
 - 5. Pump assembly shall be mounted in a suitable protected location to facilitate re-filling and maintenance of the system.
 - 6. System shall be operated via an electronic control module with system monitoring capabilities and dash mounted visual system fault indication.
 - 7. Control module shall have a button to initiate a lube cycle for diagnostic purposes and/or reset the control module in the event a system fault has occurred.
 - 8. In the event of a system fault, the system shall remain inoperable until the fault has been corrected, and a system reset has been initiated.
 - 9. System shall be installed by a Groeneveld certified installation facility.
- B. If engine is other than an International or Cummins, vendor shall provide the latest licensed version of the manufacturer's PC based diagnostic software package for the engine operating system. If cables, adapters, interfaces or any other equipment are required for use with a notebook PC, it shall be included. Minimum of 2 hours of hands on training with a factory trained instructor at the city's garage to familiarize 5 technicians with the diagnostic software and procedures.
- C. Manuals **ONE SET** – shall cover both trucks (web based or CD). If CD is unavailable, books will be acceptable **(please indicate manual format)**.
 - 1. Cab and chassis owners/operators manual.
 - 2. Cab and chassis factory service and parts manuals.
 - 3. Cab and chassis factory wiring diagram.



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- 4. Cab and chassis line (build) sheet. _____
- 5. Engine diagnosis/repair and parts manuals. _____
- 6. Control console/accessory switch/indicator light panel wiring diagram. _____
- 7. Dump body parts/service manual. _____
- 8. Snow plow parts/service manual. _____
- 9. Underbody scraper parts/service manual. _____
- 10. Tarp parts/service manual. _____
- 11. Granular and liquid anti-ice system operating, parts & service manuals. _____
- 12. Under tailgate spreader parts/service manual. _____
- 13. Prewet system operators, service and parts manuals. _____
- 14. Hydraulic system and CAN bus electrical control schematics, parts, service
And diagnostic manual(s). _____
- 15. Automatic spreader control operators, parts & service manual. _____

SPECIAL REQUIREMENTS:

- A. All filters and accessory drive belts shall not be painted, so that replacement numbers can be ascertained. _____
- B. **NO ADVERTISING MUD FLAPS OR DECALS PERMITTED ANYWHERE ON THE VEHICLE!!!!!!** _____
- C. **308LSI wire or rod shall be used when welding on 304 stainless steel components. No mild steel welding rod or wire shall be used on stainless steel.** _____
- D. All fasteners (studs, bolts nuts, washers, spacers, chains, etc) on the dump body, cover tarp system, tailgate spreader and prewet system shall be stainless steel. _____
- E. **NO SCOTCH LOCK TYPE WIRE CONNECTORS OR TAPE SPLICES SHALL BE USED ANYWHERE ON THE VEHICLE OR ANY OF ITS ACCESSORIES!** _____
- F. Granular and liquid anti-ice system, tailgate spreader and prewet systems shall be completely tested for proper operation prior to delivery. Systems shall be calibrated and tested for accuracy by a representative of the hydraulic equipment supplier at the city's DPS garage. Calibration documentation shall be provided. City technicians and truck drivers shall participate in the calibration for training purposes. _____
- G. Calibration parameters: _____
 - 1. Granular and liquid anti-ice system.
 - a. Spreader material 1 – rock salt. Minimum application rate = 200lb/lane mile. Maximum application rate = 800lb/lane mile. _____
 - b. Spreader material 2 – activated slurry mixture. Minimum application setting = 400lb/lane mile. Maximum application rate = 1200lb/lane mile. _____
 - c. Liquid material 1 – salt brine. Minimum application rate 4 gallons/ton. maximum application rate 12 gallons/ton. _____
 - d. Liquid material 2 – beet juice10%/salt brine 90%. Minimum application rate = 4 gallons/ton. Maximum application rate = 12 gallons/ton. _____
 - 2. Tailgate material spreader. _____



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- a. Spreader material 1 – rock salt. Minimum application rate = 200lb/lane mile. Maximum application rate = 800lb/lane mile. _____
- b. Spreader material 2 – salt/sand mix. Minimum application setting = 400lb/lane mile. Maximum application rate = 1200lb/lane mile. _____
- c. Liquid material 1 – salt brine. Minimum application rate 4 gallons/ton. maximum application rate 12 gallons/ton. _____
- d. Liquid material 2 – beet juice10%/salt brine 90%. Minimum application rate = 4 gallons/ton. Maximum application rate = 12 gallons/ton. _____

WARRANTIES:

- A. Vehicle and all components shall have as a minimum, one year warranty on parts and labor. _____
- B. Engine shall have a 5 year 100,000 mile factory maximum coverage extended warranty (provide service coverage matrix with bid). Coverage shall include the following components: SCR assembly (if equipped), after treatment injector, decomposition reactor, DPF assembly, water pump, turbocharger and waste gate, fuel injectors, EGR cooler, EGR valve, EGR mixer, cylinder head assembly, cylinder block casting, cylinder head cap screws, rocker lever assembly, electronic control module, pistons, rings, and liners, lube oil cooler assembly, cylinder block assembly, cylinder block casting, crankshaft assemblies, front gear cover, oil pan, connecting rod assemblies including caps and bolts, lube pump assembly, camshaft and bushings, camshaft follower housing, intake manifold housing, gear train gears. Include coverage matrix. _____
- C. Transmission shall have a 5 year, 50,000 mile Allison full coverage factory warranty. _____
- D. Dump body shall have a 2 year minimum parts and labor warranty. _____
- E. Include all warranty coverage outlines with bid proposal. _____
- F. All warranties shall have 0\$ deductible. _____
- G. Dealership shall provide pickup and delivery service from the city garage for all warranty issues at no cost to the city. _____
- H. Due to the severe strain to DPS operations caused by equipment downtime, in the eventuality of warranty work to be performed, it is required that the successful bidder perform the work by a factory trained technician within 48 hours of notification. _____
- I. Warranty repairs, service, and parts supplier shall be located in the metropolitan Detroit area. (provide facility address)._____

OPTIONAL EXTENDED WARRANTIES

Proposer shall submit with this proposal written terms and conditions of all standard and any available optional extended warranty coverage and available service contracts as an option for City to purchase.

SELECTION PROCESS

The final selection process will be determined by the responses to this document and any required interviews or demonstrations. Final award may be made to the proposer deemed most advantageous to the Cities. A selection committee comprised of members of the identified cities Department of Public Services will judge each firm's



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Five (5) Tandem Axle Dump Trucks
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responses as determined by meeting and/or exceeding the following criteria:

1. Proposal Completeness. Meeting all Request for Proposal conditions, requirements and miscellaneous instructions as outlined herein; clarity, completeness and comprehensiveness of the proposal.
2. Functionality of Vehicle. Ability to provide high quality workmanship meeting the scope of work and mandatory requirements as outlined. General system functions, ease of use, durability, warranty and equipment meeting industry-standards.
3. Comparable Projects/References. Ability to provide a high quality product and exemplary service levels will be determined by:
 - a. References verification
4. Experience/Qualifications. Demonstration of competence, experience, capacity and financial capability to carry out the terms of this contract. Company shall have personnel who have experience with similar projects as described herein. Experience of the manufacturer and contractor will be considered, as well as technical training and education of staff assigned to this project.
 - a. Experience in providing proposed vehicles similar to those described in this document for other governmental entities.
 - b. Meeting or exceeding all vendor qualification requirements.
 - c. Size of firm, ability to provide all required services, use of subcontractors, warranties and parts availability.
 - d. Description of training to be provided.
 - e. Ability to timely deliver. Provide timeline with number of days to delivery date.
5. Warranty and Maintenance Services. Warranty period proposed. Include a copy of all Warranty Agreements. Provide information on support for warranted items including contact names and numbers, loaner options, parts availability and timeframe for repairs.
6. Cost Proposal.

The selection committee will select the proposals, which appear most beneficial to the City. These proposers may be asked to provide a marketing presentation which could include an interview and demonstration of the vehicle to the committee during the evaluation period. Vehicle demonstrated must be an offering that is closely related to the vehicle specified within this proposal. Department of Public Services staff may wish to visit the manufacturer's plant in an effort to reach a decision relative to the selection of the vendor.

GENERAL TERMS AND CONDITIONS

All proposals will be evaluated and ranked. The City reserves the right to reject any and all proposals or to make an award based directly on the proposals. The City reserves the right to negotiate separately with any proposer when such action is considered in its best interest. Subsequent negotiations may be conducted, but such negotiations will not constitute acceptance, rejection or a counter-offer on the part of the City. The firm selected for the award will be chosen on the basis of the apparent greatest benefit to the City.

The City reserves the right to interview and request demonstrations of product from any number of qualifying providers as part of the evaluation process. The decision of which provider to contact (if any) will be based on the most qualified, cost effective and experienced provider(s) determined in the evaluation process. The City reserves the right to select, and subsequently recommend for award, the proposed products/services which best



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meets its required needs, quality levels and budget constraints.

The City is not required to award and/or to accept the lowest proposal in all or in part. The proposal award will not be based solely upon cost, but will be evaluated based upon criteria formulated around the most important features of the product/services, of which product design, ease of use, operability, references, or warranty/maintenance, may be overriding factors. The proposal evaluation criteria should be viewed as standards, which measure how well a vendor's approach meets the desired requirements and needs of the City.

All proposers names shall be read at the date and time specified. All proposals shall be in accordance with the City of Rochester Hills Purchasing Ordinance and the requirements of this notice in order to be deemed "responsive."

The City is not liable for any costs incurred by any prospective proposer prior to the awarding of a contract.

No proposal will be accepted from any person, firm or corporation who is in arrears upon any obligation to the City of Rochester Hills or who otherwise may be deemed irresponsible or unreliable by the City of Rochester Hills.

No proposal will be allowed to be withdrawn after it has been deposited with the City of Rochester Hills, except as provided by law. All proposers are held to prices proposed for 180 days or award, whichever comes first, except the successful proposer whose prices shall remain firm through contract expiration.

Any deviation from the scope of work must be noted in the proposal.

The Request for Proposal document together with its addenda, amendments, attachments and modifications, when executed, becomes the contract or part of the contract between the parties.

Any proposal submitted which requires a down payment or prepayment of any kind prior to work completion and full acceptance as being in conformance with specifications will not be considered for award.

All costs incurred in the preparation and presentation of this proposal, in any way whatsoever, shall be wholly absorbed by the prospective firm. All supporting documentation shall become the property of the City of Rochester Hills unless requested otherwise at the time of submission. The confidentiality or disclosure of any information submitted is governed by the Michigan FOIA. The City cannot promise, warrant or guarantee confidentiality nor that the information presented will be exempt from disclosure under the FOIA. The City may honor requests for confidentiality only to the extent that FOIA permits.

The City of Rochester Hills reserves the right to split or abstract any or all proposals and award multiple contracts from the same quotation, based on price, availability and service when in its judgment it best serves the City of Rochester Hills.

The City reserves the right to waive any informality in the proposals received, and to accept any proposal or part thereof, which it shall deem to be most favorable to the interests of the City.



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Any deviation from the specifications must be noted in the proposal.

Municipalities are exempt from Michigan State Sales and Federal Excise Taxes. Prices quoted shall not include Federal or State taxes. The communities will furnish the successful proposer with tax exemption certificates when requested.

All correspondence or inquires from interested firms regarding this proposal shall be directed to the attention of: Lisa Cummins, CPPB, Senior Purchasing Analyst, City of Rochester Hills, 1000 Rochester Hills Drive, Rochester Hills, Michigan, 48309, 248-841-2537, cummins1@rochesterhills.org.

Only those persons designated above are authorized to seek additional information from prospective firms regarding their proposals. Correspondence or inquiries made directly to firms regarding their proposals from all other persons are to be directed to the City employee designated above for appropriate review and response.

Contracts for work under this proposal will obligate the firm to not discriminate on the grounds of race, color, creed, religion or national origin in their employment practices.

The City shall reserve the right to terminate the contract without penalty upon 30 days written notice due to poor performance or for any reason deemed to be in its best interest. A designated representative of each community will be solely responsible for determining acceptable performance levels. His/her decision will be deemed in the communities' best interest and will be final. The City reserves the right to re-award the contract to the second most qualified proposal, re-bid the contract, or do whatever is deemed to be in its best interest.

If the awarded Contractor should neglect to perform the work properly or fail to perform any provision of this contract, the City, ten (10) days after providing written notice to the Contractor may without prejudice to any other remedy, make good such deficiencies and may deduct the cost thereof from the payment due to the Contractor plus twenty (20%) percent for failure to perform.

No contract may be assigned, sublet or transferred without the written consent of the city(s). Any subcontractor, so approved, shall be bound by the terms and conditions of this contract. The contractor shall be fully liable for all acts and omissions of its subcontractor(s) and shall indemnify the City for such acts or omissions.

It shall be the proposers' responsibility to make inquiry as to the changes or addenda issued. All such changes or addenda shall become a part of the contract and all proposers shall be bound by such changes or addenda.

During the time that the Request for Proposals is considered to be under evaluation, the Purchasing Division and City's staff are restricted from giving any information relative to the proposals or the "progress" of the evaluation, except as described in this Request for Proposals and as required to administer the evaluation process. Award will be posted on the MITN website.

As this Request for Proposals is being made available by electronic means, the proposer accepts full responsibility to insure that no changes are made to the Request for Proposals documents. In the event of



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conflict between a version of the Request for Proposals submitted by proposer and the version maintained by the City of Rochester Hills Purchasing Division, the version maintained by the City of Rochester Hills Purchasing Division shall govern.

The City's acceptance of a proposal/bid and approval of the award of a contract shall not constitute a formed contract and the acceptance of a proposal/bid and award of a contract shall be contingent and conditioned upon the parties' entry into and execution of a written agreement acceptable to the City.

Insurance Requirements:

The proposer shall not commence work until he has obtained and delivered to the City of Rochester Hills the certificate of insurance required under this paragraph. All insurance carriers must be acceptable to the City and licensed and admitted to do business in the State of Michigan. The City of Rochester Hills shall be named as certificate holder.

1. **Commercial General Liability Insurance:** The Vendor shall procure and maintain during the life of the blanket purchase order, Commercial General Liability Insurance on an "Occurrence Basis" with limits of liability not less than \$1,000,000 per occurrence and/or aggregate combined single limit, Personal Injury, Bodily Injury, Bodily Injury and Property Damage. Coverage shall include the following extensions: (A) Contractual Liability; (B) Products and Completed Operations; (C) Independent Contractors Coverage; (D) Broad Form General Liability Extensions or equivalent; (E) Deletion of all Explosion, Collapse and Underground (XCU) Exclusions, if applicable.
2. **Motor Vehicle Liability:** The Contractor shall procure and maintain during the life of this contract Motor Vehicle Liability Insurance, including Michigan No-Fault Coverages, with limits of liability of not less than \$1,000,000 per occurrence combined single limit Bodily Injury and Property Damage. Coverage shall include all owned vehicles, all non-owned vehicles, and all hired vehicles.
3. **Umbrella Liability Insurance:** The Vendor shall procure and maintain during the life of this contract Umbrella Liability Insurance with limits of liability of not less than \$1,000,000 per occurrence.
4. **Workers' Compensation Insurance:** The contractor shall procure and maintain during the life of this contract, Workers' Compensation Insurance, including employers' liability coverage, in accordance with all applicable statutes of the State of Michigan.
5. **Additional Insured:** Commercial General Liability and Motor Vehicle Liability Insurance, as described above, shall include an endorsement stating: *"It is understood and agreed that the following shall be Additional Insureds: the City of Rochester Hills (the City of Rochester, the Huron Clinton Metropolitan Authority), all elected and appointed officials, all employees and volunteers, all boards, commissions and/or authorities and board members, including employees and volunteers thereof. This coverage shall be primary to the Additional Insureds, and not contributing with any other insurance or similar protection available to the Additional Insureds, whether other available coverage be primary, contributing or excess."*
6. **Cancellation Notice:** Workers' Compensation Insurance, Commercial General Liability Insurance and



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Motor Vehicle Liability Insurance, as described above, shall include an endorsement stating the following:
“Should any of the above described policies be canceled before the expiration date thereof, the issuing company will mail thirty (30) days written notice to the certificate holder named to the left.”

Hold Harmless

To the fullest extent permitted by law, Vendor agrees to defend, pay in behalf of, indemnify and hold harmless the City of Rochester Hills, its elected and appointed officials, employees and volunteers and others working in behalf of the City of Rochester Hills, against any and all claims, demands, suits, or loss, including all costs and attorney fees connected therewith, and for any damages which may be asserted, claimed or recovered against or from the City of Rochester Hills, its elected and appointed officials, employees, volunteers or others working in behalf of the City of Rochester Hills, by reason of personal injury, including bodily injury and death and/or property damage, including loss of use thereof, which arises out of or is in any way connected or associated with this contract.



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VENDOR QUESTIONNAIRE

Date: _____

Firm Name: _____

Address: _____

City: _____

Telephone Number: _____

Fax Number: _____

Email Address: _____

Firm Established: _____ **Years in Business:** _____

Type of Organization:

- a. Individual
- b. Partnership
- c. Corporation
- d. Joint Venture
- e. Other

Describe the tandem axle dump trucks physical attributes:

Describe the construction materials comprising the body and chassis. Detail the quality of materials and its resistance to the conditions it will endure with normal municipal snow and ice control operations and road maintenance operations:

Provide warranty documentation for vehicle. Detail any extended warranty programs available for the truck. If warranty agreements are required, please submit with proposal, subject to negotiation by City:



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Describe the type of training, educational services, and technical support provided with purchase. Discuss qualifications of individuals that provide training:

Describe any special programs that your company offers that will improve the City's access to products and ability to stay current with changes and improvements:

What manufacturers do you represent? State number of years you have been authorized to sell the manufacturer's product.

Explain why this manufacturer's product will best meet the City's needs:

Are you certified to repair the manufacturer's product as proposed? How long have you been certified to do this?



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If you are not certified to provide repair work, who provides the repair work? Provide name and address:

Does the tandem axle dump truck proposed conform to all applicable Federal and State motor vehicle safety standards?

What is the availability of parts? Explain the process and length of time required to obtain replacement parts?

Please provide a list of five (5) client references. Include name, address, phone number, contact person (include governmental clients).



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COST PROPOSAL

Identify unit cost for each truck and include price break points for each identified quantity level.

Description	QTY	Body Unit Cost	Chassis Unit Cost	Total Truck Cost
Tandem Axle Dump Truck with Prewet System	1	\$	\$	\$
Tandem Axle Dump Truck with Prewet System	2	\$	\$	\$
Tandem Axle Dump Truck with slide-in granular and liquid anti-ice system	1	\$	\$	\$
Tandem Axle Dump Truck with slide-in granular and liquid anti-ice system	2	\$	\$	\$
Tandem Axle Dump Truck with slide-in granular and liquid anti-ice system	3	\$	\$	\$

State payment terms of proposal, including prompt payment discount or late payment penalty (if any). _____

State approximate days to deliver ARO. _____

ALTERNATE PROPOSAL

- A. Total cost for one (1) demonstration tandem axle dump truck with prewet system
\$ _____
- B. Total cost for one (1) demonstration tandem axle dump truck with slide-in granular and liquid anti-ice system.
\$ _____
- C. Total cost for two (2) demonstration tandem axle dump trucks with slide-in granular and liquid anti-ice system.
\$ _____

ADDITIONAL/OPTIONAL EQUIPMENT

Provide unit pricing for the additional/optional equipment for the Cities consideration:

Add: Back-up Camera Unit Unit Cost
 \$ _____



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Add: Upgrade to a standard moldboard shield to an integral curved moldboard \$ _____

Deduct: Lubrication System \$(_____)

The undersigned hereby declares that he/she has carefully examined the general conditions and specifications and will provide **FIVE (5) TANDEM AXLE DUMP TRUCKS** as described herein for the price set forth in this proposal. Any changes to the specifications will be presented in writing and its impact on the final cost will be discussed and mutually agreed upon before the delivery of the services.

The undersigned further declares that the language contained in the City's Invitation to Bid document has not been changed or altered in any way in the vendor's submitted proposal, inclusive of the Bidder's Proposal, Pricing Forms and Signature Page. Any alteration(s) of any kind are grounds for disqualification.

It is understood that all proposed prices shall remain in effect for at least ninety (90) days from the date of the proposal opening to allow for the award and that, if chosen the successful vendor, the prices will remain firm through invoice.

This proposal is genuine and not collusive or sham and that the proposer has not in any manner, directly or indirectly, agreed or colluded with any other firm or association to submit a sham proposal or to refrain from proposing or in any way fix this proposal or that of any other proposer or to secure any advantage against the City of Rochester Hills.

**SIGNATURE PAGE
 CHASSIS MANUFACTURER**

_____ Signature	_____ Company Name
_____ Print Name	_____ Company Address
_____ Title	_____ City State Zip
_____ Telephone #	_____ Fax #
_____ Email Address	_____ <u>CHECK ONE</u> Partnership _____



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Federal Tax ID #	Non Profit Corp. _____	
	Profit Corp. _____	
	Other _____	

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**SIGNATURE PAGE
 BODY MANUFACTURER**

_____ Signature	_____ Company Name
_____ Print Name	_____ Company Address
_____ Title	_____ City State Zip
_____ Telephone #	_____ Fax #



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Email Address		
	<u>CHECK ONE</u>	
_____	Partnership	_____
Federal Tax ID #	Non Profit Corp.	_____
	Profit Corp.	_____
	Other	_____