



**REQUEST FOR TENDER  
PW2018-08**

**TRUCK SPECIFICATION FOR PRICING**

The Town of Minto is requesting a tender for the following work:

**Purchase of one new 2018 5500 Series, dual tire 4X4 single cab and chassis, aluminum dump box with storage units**

Proposals must be received by 10:20 a.m.; 05/16/2018

In a sealed package marked

**PW2018-08 TRUCK SPECIFICATION FOR PRICING**

Delivered to:

Mike McIsaac, Public Works Department  
5941 Highway 89  
Harriston ON N0G 1Z0

There will be public opening for this Request for tender. Any award of the tender is subject to approval of the Town of Minto Council.

If tenders arrive after the above deadline, the Town reserves the right, entirely at its discretion, to give or not give such tender consideration.

Should a contract result from this tender the name(s) of the successful Proponent(s) will be available to anyone upon request. The staff report to Council, if applicable, may bear the name of the bidders for the project and their respective bid amount. Submissions by bidders become records of the municipality and subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act.

This document consists of a Title Page (page 1), Form of tender (page 2), Bid Document (page 5), and Bid Submission (Page 8). Bidders must review all four sections and confirm by initialing all pages that they have read and understand the contents. Please make sure all relevant forms and documents are signed and completed to ensure your bid is complete.

## Form of Tender

### **a) Definitions**

The following definitions shall apply throughout the tender:

“Agreement” refers to the agreement between the Town of Minto and a bidder.

“Award” refers to the selection by the Town of Minto a successful tender for the provision of the goods, services and/or supplies under this process.

“Bidder” refers to any person or corporation participating in this tender.

“Town” refers to Corporation of the Town of Minto.

### **b) Qualification**

The bidder has carefully examined the provisions, plans, specifications and conditions attached to this tender and has carefully examined the site and/or locations of the goods, services and supplies to be provided, where applicable, and the bidder understands and accepts the said provisions, plans, specifications and conditions, and for the prices set forth in this tender, hereby offers to furnish all expertise, equipment, machinery, tools, apparatus, personnel, and other means of construction or production, needed to furnish all the goods, services and/or supplies, except as otherwise specified in the contract, and to complete the work in strict accordance with the provisions, plans, specifications and conditions attached to this tender.

### **c) Instruction**

All pages of this document shall be returned with the tender submission, and all pages of this document shall be initialed and completed in full by the bidder in the space provided, and included in a sealed envelope, or in the envelope supplied if applicable.

### **d) Warranty**

I/We the Bidder (s) hereby certify that I/we will provide the goods, services and/or supplies as outlined in this tender, and to diligently perform in accordance with the terms of this bid, upon award by the Town, without undue delay.

(Name of Firm or Individual – Bidder): \_\_\_\_\_

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

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

I have authority to bind the company.

\_\_\_\_\_  
(Name of Signatory)

\_\_\_\_\_  
(Signature)

### **e) Process for Receipt and Opening of Tender**

- i. The Form of tender and other documents that make up the bid shall be placed in a sealed envelope, along with any bid deposit or security outlined in the tender and delivered to the Town office where the sealed envelope will be date stamped and a list compiled of sealed bids received for the provision of goods, services and/or supplies.
- ii. On the Closing Date sealed bids received and marked will be opened and the names of the bidders will be recorded by the Opening Committee at the Town of Minto Municipal Office. In some cases the gross bid amount may be read, except however such amount shall not be the final bid amount until such time as the bids have been reviewed and checked for accuracy and confirmed by the Town, at its sole discretion, as accurate.

- iii. The Opening Committee will consist of the C.A.O. Clerk or Department Head responsible for the area of work requiring the goods, services and/or supplies, and staff from the Treasury Department and Clerk's Department, or designate. Unless specified otherwise, opening of the tender shall be public so that bidders recorded at the Town office may observe the opening. Following public opening, bids will be assessed to determine adherence to the terms of this document prior to a recommendation to Council for award.
- iv. Unless specified otherwise the Town will not accept a response to this tender by facsimile or other electronic means.
- v. All bids must be clear and readable. Erasures, overwriting or strike-outs shall be initialed by the person signing the bid.
- vi. Late bids will be returned unopened.

**f) Privilege Clause**

The Town reserves the right, in its sole discretion, to reject any or all bids, and the lowest or highest bid, as the case may be, will not necessarily be accepted. Without limiting the generality of the statement immediately above, the Town shall not be required to award or accept a bid, or may recall the tender at a later date:

- i. When only one bid has been received;
- ii. Where the lowest responsive and responsible bidder substantially exceeds the estimated cost of the goods, services and/or supplies;
- iii. When all bids received fail to comply with the specifications of the tender terms and conditions;
- iv. Where a change in the scope of work or specifications is required.

Further the Town reserves the right to accept any portion of a bid. Award of the successful bid shall be subject to approval by the Council of the Town of Minto.

**g) Communications**

Any communications regarding this tender must be addressed to the Primary Town Contact listed on the Title Page of this document.

**h) Withdrawal or Revision of Bids**

A bidders may withdraw or revise all or part of a bid at any time up to the Closing Date and Closing Time by submitting a letter requesting removal of the previously submitted bid to the C.A.O. Clerk or Department Head responsible for the tender who will exchange the original sealed bid with the replacement sealed bid which will be marked and identified in accordance with part e) above. Requests made by telephone or fax will not be considered. The previously submitted bid will be returned unopened to the bidder.

**i) Alterations or Variations**

No alterations or variations of the tender shall be valid or binding upon the Town of Minto unless authorized in writing or other means specified in the bid documents.

**j) Accuracy of Bid Document and Related Material**

The Town has provided herein specific technical, background and other information as accurately as possible, but assumes no responsibility for the completeness of the information presented in this document, or otherwise distributed or made available formally or informally during this procurement process. Without limiting the generality of the foregoing, the Town will not be bound by, or be responsible for, any explanation or interpretation of the bid documents other than those prepared in writing. In no event shall bidders rely on any oral statement by the Town or its agent, advisors or Consultants. All the

information contained in this document, or from a separate written request or transmission from the Town is subject to the provisions of this section.

**k) Oral Explanation or Interpretation**

No oral explanation or interpretation by the Town shall modify any of the requirements or provisions of the bid document.

**l) Due Diligence**

Bidders are solely responsible for conducting their own independent research, due diligence, and any other work or investigations, and for seeking any other advice necessary for the preparation of their submission. It is the bidder`s responsibility to clarify with the Town any questions with respect to the bid documents in accordance with the procedure set out in herein before submitting a bid.

**m) Addendum**

By the issuance of a cancellation or addendum, the Town may cancel the tender, revise, delete, add to or substitute any part of the bid document, extend the Closing Date; or provide an explanation or interpretation.

**n) Tender Costs**

The Town is not responsible for any costs incurred by a bidder to prepare and submit a bid.

**o) Claims or Litigation**

The Town shall reject all bids submitted by a bidder if that bidder (or a related person, as determined by Council) is engaged in a legal action (including arbitration) with the Town unless this provision is waived by Council, in its sole and absolute discretion.

**p) Freedom of Information**

The information collected will be used solely for the purpose stated herein. Submissions by bidders become records of the municipality and subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act.

**q) Non-Lobby**

If any employee, agent or other representative of any bidder makes any representation or solicitation to any elected representative of the Town, committee or staff member or any other officer, employee or agent of the Town, the media, or consultants to the Town, with the exception of the contact listed under any communications above, whether before or after the submission of the bid, the Town will be entitled to reject the bid. The requirement does not extend to any public deputation that may be made to Council or any Town committee.

**r) Town of Minto Purchasing or Procurement By-Law**

This Tender is subject to the Town of Minto's Procurement By-Law in affect at the time of the call goods, services and/or supplies.

## Bid Document

### **1. BACKGROUND**

The Town of Minto owns equipment including graders, dumptrucks, sidewalk plows and pick-ups. The replacement schedule is based on a service life of 10 to 15 years for large trucks, 16 -18 for graders and 5 years for pick-ups. The total unadjusted cost of equipment replacement over a 14 year period is \$5,295,000.00 for an average annual cost of \$378,000.00. The capital equipment budget varies from year to year with the 2018 budget identifying over \$240,000 in potential equipment purchases. By tendering the purchase of a utility dump truck, the Town intends to maximize value through competitive bids.

The Town at its sole discretion may re-allocate funds within its approved budget depending on need and the competitiveness of pricing obtained in its tendered proposal. If a truck tender contains pricing which is poor the Town may defer purchases to other years and re-allocate funds to other areas if such a deferral results in “best value” to ratepayers.

### **2. SUBMISSIONS**

Tenders submitted in envelopes clearly marked as to contents, will be received at the Town of Minto Administration Office  
5941 Highway 89  
Harriston, ON N0G 1Z0, until 10:20 a.m., local time on: May 16, 2018

### **3. SCOPE OF WORK**

The intent of this Tender is to retain a competent supplier to meet all necessary requirements needed to fulfill the Town of Minto’s request for the purchase of a cab and chassis with an aluminum dump box with various components as generally specified in Schedule “A” to this bid document. Schedule “A” provides project specific requirements related to this tender. Town of Minto reserves the right to add, delete or modify Schedule “A”.

### **4. FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY**

Submissions by bidders become records of the municipality and subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act.

### **5. QUALIFICATIONS**

No bidder shall submit under this tender unless they have the skills, ability and qualifications to provide the goods, services and/or supplies in accordance with applicable federal or provincial law, and shall demonstrate such skills, abilities or qualifications explicitly in the tender if required to do so in the bid documents, or prior to the award if requested to do so by Town representatives at their sole discretion.

### **6. COMPLETION DATE AND PENALTIES**

The completion date for the provision of all goods, services and/or supplies required under this tender shall be 5:00 p.m., local time on: August 31, 2018 unless an earlier completion date is specified in Schedule “A”.

Failure to provide goods, services and/or supplies under this tender shall result in the following penalties, if applicable:

Contractor will pay to the Town the sum of one-thousand dollars (\$1,000.00) for liquidated damages for each and every calendar days’ delay in finishing the work beyond 31/8/2018.

### **7. AGREEMENT**

Prior to proceeding with the work required by this proposal, the successful firm shall be required to enter into an agreement with the Town to stipulate mutually agreeable terms for providing the goods, services and/or supplies under this tender.

## **8. EVALUATION**

Bids submitted for goods, services and/or supplies under this tender shall be reviewed using the following general criteria:

- a) The Town is satisfied that such purchase represents “best value” to the Town considering requirements of its purchasing by-law and applicable policies.
- b) Bidders or suppliers have the capacity, skill, ability, past performance, accessibility, quality, service, availability, affordability, reliability, best practices, environmental benefit, proximity and similar as the case may be to supply such goods, services and/or supplies.

## **9. APPLICABLE LAW**

This tender and any award that may develop as a result call shall be governed by and construed in accordance with the laws of the Province of Ontario.

## **10. NO TOWN OBLIGATION TO AWARD**

Publication of this tender and the resultant receipt of any submission do not imply a reciprocal obligation on the part of the Town to award a contract to provide goods, services and/or supplies to any bidder. The Town may at its sole discretion award tender or split the award where such actions would be in the best interest of the municipality keeping in mind the criteria in outlined in Part 8 Evaluation.

The Town of Minto reserves the right to cancel this tender for any reason without any liability to any proponent, or to waive irregularities at their own discretion. Tenders shall be irrevocable until the Town of Minto awards a contract, or cancels this tender, whichever first occurs.

The Town of Minto reserves the right to reject any or all tender, to negotiate with any firm submitting a tender and to accept the tender deemed most favourable in the interests of the Town of Minto.

The lowest or any tender may not necessarily be accepted. The Town of Minto or its agents do not accept any responsibility for costs or expenses incurred by the Proponent in preparing the Proposal.

## **11. WSIB/INSURANCE**

In response to any requirement in any tender, or upon request, bidders shall provide to the Town proof of WSIB certificate of clearance, and a copy of their insurance policy prior to the award of the tender.

## **12. INSURANCE**

Prior to award of any tender, or upon request, bidders shall, at their expense provide certificate(s) of insurance satisfactory to the Town of Minto, as set forth below. In the event that the certificate(s) of insurance is/are not satisfactory, the Town of Minto may require the successful bidder to provide a certified copy of the policy. The certificate(s) in the amounts listed below are to be provided:

- a) \$5 million – commercial general liability

Such policy shall contain:

- a) “Cross Liability” clause or endorsement.
- b) An endorsement certifying the Town of Minto is added as an additional insured.
- c) An endorsement to the effect that the policy or policies will not be altered, cancelled or allowed to lapse without 30 days prior written notice to the Town of Minto.

## **13. HEALTH AND SAFETY**

The Town of Minto is serious in its application of Health and Safety protocols. Bidders are expected to adhere to all legislated and regulated health and safety regulations. Failure to

adhere to these practices may result in termination of any contract without financial penalty to the Town. Bidders shall provide to the Town a copy of their Health and Safety policy upon request, or a written statement that they have a Workplace Health and Safety policy in effect.

**14. ENVIRONMENT AND ENERGY EFFICIENCY**

When procuring goods, services and/or supplies, the Town of Minto supports methods that protect the environment and use energy in an efficient and affordable manner. The Town supports innovation and initiative that promotes energy efficiency and improving the quality of the natural environment keeping in mind issues of affordability, maintenance and operating costs.

**15. PAYMENT**

The Town of Minto agrees to pay for such goods, services and/or supplies provided for in this bid, once awarded, in accordance with the terms of this bid document and/or the agreement signed upon approval by Town of Minto Council

**16 INDEMNITY**

The successful bidder shall indemnify and hold the Town harmless from and against any liability, loss, claims, demands, costs and expenses, including reasonable legal fees occasioned wholly or in part by any acts or omissions either in negligence or nuisance whether willful or otherwise by the successful bidder, its agents, officers, employees or other persons for whom the successful bidder is legally responsible.

**17. INQUIRIES**

For further information regarding this tender contact:

Mike McIsaac Roads & Drainage Foreman

By appointment at the Town office during normal business hours at

5941 Highway 89

Harriston, ON N0G 1Z0, or

Phone: 519-338-2511 ext. 234; Fax 519-338-2005 or email at [mike@town.minto.on.ca](mailto:mike@town.minto.on.ca)

**Bid Submission**

**Supplier Information**

SUPPLIER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
 \_\_\_\_\_

HST #: \_\_\_\_\_

DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

NAME & TITLE: \_\_\_\_\_

We, the undersigned, declare that we have carefully examined the General Instructions and the Scope of Work. We declare that if this bid is accepted within 30 days of the date of the tender we will execute a contract to provide all the material and perform all the work described in those documents within the project completion schedule for the sum shown below:

<b>MAKE OF VEHICLE</b> _____ (make)	<b>DELIVERY DATE FULLY EQUIPPED</b> _____
<b>Tender price including all options listed:</b>	
Vehicle	\$ _____
Aluminium Box	\$ _____
Options (from Page 11 Schedule "A")	\$ _____
<b>Subtotal of tendered prices (Vehicle, Aluminium Box, Others) from above</b>	\$ _____
<b>HST</b>	\$ _____
<b>Total</b>	\$ _____

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature



Schedule "A"

**UNIT REQUIRED**

The Town of Minto is considering purchasing one new 2018 5500 series, dual tire 4X4 Single Cab and Chassis, Aluminium Dump Box with storage units and Little Wonder Truck Loader

**VEHICLE WEIGHT**

G.V.W.	minimum, GVWR 19,500	SPECIFY			lb.
The allowable G.V.W. as supplied shall be shown on a metal tag		YES		NO	
Chassis Weight		SPECIFY			lb.

**TRANSMISSION**

Transmission Automatic		YES		NO	
Transmission min torque 650 @ 1600		SPECIFY			
Transmission Auxiliary cooler		YES		NO	
No spin differential with traction control		YES		NO	
Synthetic Oil Required in Transmission		YES		NO	
Transmission temperature gauge		YES		NO	
Transmission must be have provision for PTO		YES		NO	
All transmission lines shall be stainless steel braided with ends that allow the line to be removed PRICE (\$)_____		YES		NO	

**PAINT**

Paint shall be Town of Minto (blue) Concord Blue Me P3094		YES		NO	
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**FUEL TANK**

Dual Fuel Tanks SPECIFY: litres		YES		NO	
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**BRAKES**

Heavy duty Rear brakes, size		SPECIFY TYPE			
Heavy duty Front brakes, size		SPECIFY TYPE			
Factory installed brake controller should be integrated into the chassis.		YES		NO	

**ENGINE (DIESEL)**

MAKE	Recommend diesel engine.	MODEL			
	Number of cylinders	SPECIFY			
	Gross H.P.300@2800rpm minimum	SPECIFY: HP @			
	Gross Torque -lb./ft.	SPECIFY lb./ft./@			
	Net Torque	SPECIFY lb./ft. @		RPM	
	Displacement -	SPECIFY litres			
	Air Cleaner - Heavy Duty	SPECIFY			

	The engine air intake shall be operator controllable for Summer/Winter operations by dash mounted switch	YES	NO	
	Oil Filter -	SPECIFY CAPACITY		
	Alternator - shall be a low RPM alternator largest alternator available (DUEL)	SPECIFY		
	Dual Batteries Batteries will have a jump post accessible from the outside of the battery box. Located in engine department SPECIFY _____	YES	NO	
	Starter _____ Thermal over crank protection	YES	NO	
	Lines to be supplied and installed to rear of cab for service box	YES	NO	
	Extend life Anti-freeze - 40°C	YES	NO	
	All coolant hoses shall be silicone	YES	NO	
	Shall provide O.E.M. 2012 regulation pollution control system and include in the tender package all available information detailing the components of the system, and a description of the proposed installation location	YES	NO	

#### CHASSIS

	Single Cab	YES	NO	
	Heavy-Duty Suspension Package	YES	NO	
	Up fitter switches are required in the chassis	YES	NO	
	84" CAB TO AXLE (CA)	YES	NO	
	Black moulded running boards installed	YES	NO	

#### STEERING

	Power steering shall be supplied with heavy duty dual steering boxes	YES	NO	
	There shall be a filter for the steering fluid and it shall be serviceable without dismantling any power steering components	YES	NO	

#### CAB

	Heavy duty, high back Seats	SPECIFY		
	Interior sun visors - Dual adjustable with aux. fold down side visor on driver side	YES	NO	
	Windshield Wipers and motor shall be <b>Heavy Duty</b> and winter wiper blades shall be heated with intermittent feature List specifications of heavy duty motor	YES	NO	
	Power Mirrors -Premium work style mirror with markers SPECIFY	YES	NO	
	The mirrors shall be electrically heated to prevent fogging and ice build up	YES	NO	
	Fuel Gauge shall be supplied	YES	NO	
	Voltmeter shall be supplied	YES	NO	
	Water temperature gauge shall be supplied	YES	NO	

	Oil pressure gauge shall be supplied complete with an automatic low oil pressure engine light & alarm.	YES	NO	
	Tachometer shall be supplied	YES	NO	
	Air filter restriction gauge shall be mounted in the dash	YES	NO	
	Engine hour meter	YES	NO	
	AM /FM/CD Weather clock radio shall be supplied	YES	NO	
	Wiring for two way radio shall be provided	YES	NO	
	Low windshield washer fluid indicator shall be provided	YES	NO	
	O.E.M/ sound abatement package under hood	YES	NO	
	Standard Factory Tinted Glass	YES	NO	

#### AXLES

	Front axle	CAPACITY	lb.
	Rear axle	CAPACITY	lb.
	Rear axle shall be tandem, dual drive with synthetic oil	YES	NO
	Rear axle shall have a locking rear differential	YES	NO

#### WHEELS AND TIRES

	All season radials with spare tire and aluminium rims SPECIFY _____	YES	NO
	Tires shall be of the tubeless type	YES	NO
	Dual rear wheels shall be supplied	YES	NO

#### LIGHTS & WARNING DEVICES

	Amber directional lights, facing front SPECIFY _____	YES	NO
	Five identification streamlined cab lights shall be supplied (LED) (Clearance lights)	YES	NO
	Four-way flashers shall be supplied	YES	NO
	Light under hood	YES	NO
	In-cab battery disconnect switch shall be provided - mounted L.H beside driver's seat and accessible when door is open	YES	NO
	Specify price for vehicle pickup and delivery for warranty work Specify _____	YES	NO

#### OPTIONS INCLUDED

	All Tires upgraded to Michelin XDS 2 Regional 245/70R19.5 IC/LR H SPECIFY _____	Price (\$)	
	Spray frame (Line X)	Price (\$)	
	Front Heavy Duty Mud Flaps (2) installed on front	Price (\$)	
	Tinted Clearance Lights installed	Price (\$)	
	Stainless steel step bar installed	Price (\$)	
	Aluminum dump body and components as specified on pages 11 - 14	Price (\$)	

	"Little Wonder" Vacuum system as described on pages 14-15	Price (\$)	
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### **Aluminum Dump Body to fit 84 inch cab-to-axle chassis.**

- Dimensions:** 11'-4" long (inside)  
96 inches wide (outside)  
Front rack height such that top of tarp shield to be approx. 2" high than cab  
24 inch sides  
30 inch tailgate
- Material:** All plate material (including toolboxes & cabinets) to be aluminum grade 5083 H32 - mandatory  
All extrusions to be 6061 T6
- Welds:** All joints for major structural elements (floor, front rack, posts, sides, tailgate, rear light channel, etc) to be welded 100%, stitch welding not permitted  
All welds to be cleaned  
No sharp edges allowed on entire body
- Floor:** 1/2" aluminum plate  
Any seams required in the floor sheet are to be welded 100% both sides  
Top weld is to be ground flush with deck
- Light Channel:** 1/4" aluminum plate
- Frame:** 1/4" x 6" x 2-1/2" channels (6.4mm x 152mm x 64mm) long sills
- Structure:** 2 3/8" x 2-3/8" (60.3mm x 60.3mm) bulb channels cross members on 10" (305mm) centers. Bulb channels to be internally reinforced with 2"x2"x1/8" sq. tube above long sills Sill gussets required to reinforce joint between sill and cross member, sill gussets to be angle type gussets, triangular plate gussets not permitted
- Side rail:** Floor sheet to be formed to create side rail  
1/4" x 4" i.d. (6.4mm x 102mm) with 1.5" return on bottom edge
- Front rack:** 3/16" (4.8mm) front wall thickness
- Sides:** 1/8" (3.2mm) formed outside skin and 3/16" (4.8mm) inside skin  
Outside skin to be single sheet, no joints allowed  
Front and rear verticals on sides to be 2"x3"x1/4" angle  
Fold-down sides with 9/16" diameter stainless steel adjustable locking handles  
Hinge to be all aluminum with 3/4" diameter aluminum pin & 2.5" x 1/2" thk hinge
- Strap** Hinge pin to be easily removable  
Lower inside edge of side to be tapered to allow for easier closing of the side
- Front post:** Formed front posts - 3/16" (4.8mm) outside skin and 1/4" (6.4mm) inside skin
- Rear post:** Formed rear corner posts - 3/16" (4.8mm) outside skin and 1/4" (6.4mm) inside skin. Sideboard gussets to accommodate 2" x 6" planks
- Tailgate:** Thickness - 1/8" (3.2mm) formed outside skin and 3/16" (4.8mm) inside skin  
Inside & outside skin to be single sheet, no joints allowed  
Side verticals - 2-7/8" x 2-7/8" (73mm x 73 mm) bulb channel

Double acting tailgate; fold down & dump through.  
Manually operated with handle located at front driver's side  
Handle assembly, mounting brackets and front to rear connecting pipe must be fabricated exclusively out of aluminum  
Tailgate complete with chains inside body on key-hole slot to hold tailgate at 90°  
HD tailgate lower latching hooks to be 3/8" thick x 1-1/4" stainless steel  
Lower pivot and locking pin to be 1" dia.  
Upper tailgate hinge to be 1" thick aluminum

- Hoist:** Underbody scissor hoist, power up/power down, 6" diameter cylinder, 6T capacity.  
45° minimum dump angle.  
Body safety prop to be incorporated into hoist design.  
(6T hoist recommended on trucks with a GVWR of 19,500 lbs such
- Hydraulics:** Hoist powered by electric hydraulic power pack, toggle switch mounted in dash, dual 150 amp circuit breakers.  
Power pack powered via 1 gauge power cable and 1 gauge dedicated ground cable, ground cable to run from power pack directly back to negative post on battery.  
Hydraulic fluid used must be environmentally friendly, verified by environment Canada.
- Body Hinge:** 1-3/8" diameter hinge pins, body hinge plates to bolt onto aluminum sills.
- Tarp:** Manually operated mesh tarp system, mesh tarp to be reinforced with seatbelt type strapping along all four edges and three additional straps evenly spaced lengthwise. Grommets to be installed approximately every 24" along sides and front. Aluminum tarp pipe installed in tarp pocket with aluminum tarp receivers at rear of body.  
If high crank system is desired:  
Aluminum crank handle, sprocket and lock (no steel components to be used in tarp system) crank handle to be revolving, folding type, stainless steel
- Lighting:** Lighting shall conform to CMVSS 108  
Grommet mounted clearance lights  
Grommet mounted reverse and signal lights in rear channel  
Reflectors to be fastened with rivets, stick on reflectors not acceptable  
All standard body lights in rear channel to be powered via single sealed wire harness  
Connection to chassis electrical system to be made inside a sealed junction box  
All wiring connections made (including those inside the cab, inside sealed junction boxes and inside trailer plug) must be soldered and heat shrunk  
Any wiring running from front of dump body to rear must be inside aluminum conduit  
Truck outfitted with front and rear strobe lighting  
LED strip lighting inside storage boxes located under bed  
Front strobes to be SWS 80058 or Whelen IONSMA  
All lights to be LED
- Mud flaps:** Rubber mud flaps (3/8" thick) behind wheels complete with aluminum anti-sail plates. Aluminum splash guards in front of wheels, 3/16" thk.
- Warranty:** 3 year body warranty.
- Chipper Top:** Easily removable chipper top, 1 pin at each corner  
Fabricated entirely using 3/16" aluminum plate  
1/4" lifting lugs mounted on each corner of roof (or fork lift channels on top of roof)
- Dimensions:** Width to be equal to dump body width

## Patch Box

### Material:

All plate material (including toolboxes & cabinets) to be aluminum grade 5083 H321 – mandatory  
All extrusions to be 6061 T6

### Welds:

All joints to be welded 100%, stitch welding not permitted  
All welds to be cleaned  
No sharp edges allowed on entire box

### Box:

Patch box to be fabricated using 3/16" aluminum plate  
Floor tapered down towards chassis  
Floor reinforced with 2.375"x2.375"x1/8" bulb channel

### Mounting:

Mounted structure to be built using 2"x2"x1/4" aluminum square tube.  
Two 2" receivers to be welded to side of hitch plate for mounting patch box.  
One lifting handle on either side of patch box

### Options:

Two oval LED signal/turn/tail lights in patch box, one on either side wire to plug into chassis trailer plug.  
Back up alarm  
3/8" steel hitch plate welded to chassis (Pintle, safety chains eyes, & trailer plug)  
Red/white high -visibility reflective tape  
Strobe light mounted on front rack-SWS 16338 (wiring inside aluminum conduit)  
Chute in tailgate  
Recessed tie down rings in floor or 5/8" D-rings mounted on inside of posts (4 places)  
Shovel and rake rack  
Storage box to be fabricated out of 1/8" aluminum & mounted on aluminum mounting brackets.18x18x36, mounted on passenger side  
Anti-slip (grip strut ladder rung material) aluminum ladder with aluminum grab handle. Tie bars along sides (3/4" pipe with supports every 18" or less)  
LED Work light mounted on top rack

## **LITTLE WONDER®**

### 29HP Monster Truck Loader

Description	29 HP Briggs & Stratton® Vanguard™ Tow Behind
HP	29HP
Engine	B&S Vanguard
Mount	Tow Behind
Hitch Class Requirements	2 5/16 Ball Hitch required for optional trailer mount
Starter	Electric
Fuel System	6 Gallon
Fuel Type	Gas
	EPA

<b>Battery</b>	<b>Compliant</b>
<b>Impeller</b>	<b>49 State</b>
	<b>12V</b>
	<b>4 - 3/8" Steel</b>
	<b>Shredding</b>
	<b>20" Dia.</b>
	<b>Taper-Lock Hub</b>
<b>CFM</b>	<b>4712</b>
<b>Housing Liners</b>	<b>1/4" Steel</b>
<b>Intake Hose</b>	<b>12" x 10'</b>
<b>Discharge</b>	<b>8" x 5'</b>
	<b>Flex-Tube PU .060</b>
<b>Axle</b>	<b>Torflex® 2000 LB</b>
<b>Suspension</b>	
<b>Tire/Wheel</b>	<b>ST205/75 D15</b>
<b>Dry Weight</b>	<b>1090 lbs.</b>
<b>LED Spot Light Kit (2 LED Lights w/bracket and Wiring Harness)</b>	<b>010032-1</b>
<b>Safety Package (2 Orange Cones w/bracket and Wheel Chocks w/ Storage Box)</b>	<b>010012</b>