

**MINIMUM SPECIFICATIONS FOR 20 CUBIC YARD PACKER  
TRUCK CAB & CHASSIS**

	<u>COMPLY</u>	
	<u>YES</u>	<u>NO</u>
2011 Model	_____	_____
Conventional cab with set back front axle	_____	_____
120,000 PSI yield frame rails	_____	_____
Steel swept back front bumper	_____	_____
10,000# front axle	_____	_____
10,000# front suspension	_____	_____
Front shock absorbers	_____	_____
Air brake system	_____	_____
Air dryer w/heater	_____	_____
Front & rear automatic slack adjusters	_____	_____
16.5" x 5.0" front CAM brakes	_____	_____
16.5" x 7.0" rear CAM brakes	_____	_____
13.2 CFM air compressor	_____	_____
Tilt steering column	_____	_____
Single horizontal muffler with vertical tailpipe & bright guard	_____	_____
120 AMP alternator	_____	_____
Body builder wiring package	_____	_____
(2) 12 volt battery, 1300 CCA total	_____	_____
AM/FM/WB radio with dual speakers	_____	_____

	<u>COMPLY</u>	
	<u>YES</u>	<u>NO</u>
Single trumpet air horn	_____	_____
Manual reset circuit breakers	_____	_____
Chrome grille	_____	_____
Tilting fiberglass hood	_____	_____
Engine block heater-1250 watt	_____	_____
285 HP wet-sleeved diesel engine, pre-2010 emission, non-SCR type (no exceptions)	_____	_____
800 lb-ft torque @ 1400 RPM	_____	_____
Electronic cruise control	_____	_____
Fuel/water separator	_____	_____
Two speed fan drive	_____	_____
816 square inch aluminum radiator core w/313 square inch charge air cooler	_____	_____
Hand control throttle	_____	_____
Remote mounted engine control package	_____	_____
Expanded engine temperature effects	_____	_____
Auto neutral provision for transmission	_____	_____
Allison 3500 RDS automatic transmission w/dash mounted shift control console and oil level sensor	_____	_____
Allison spare input/output option	_____	_____
23,000# rear axle	_____	_____
31,000# rear suspension	_____	_____

COMPLY  
YES NO

4500# auxiliary springs	_____	_____
50 gallon fuel tank	_____	_____
Full gauge cluster	_____	_____
Allison transmission oil temperature gauge	_____	_____
High back air suspension driver's seat	_____	_____
Two-man passenger seat	_____	_____
Heated West Coast mirrors w/integral convex mirrors	_____	_____
Air conditioner/heater/defroster	_____	_____
A/C to have diagnostic protection system—Apads or approved equal.	_____	_____
Deluxe cab interior trim	_____	_____
(2) padded vinyl sun visors	_____	_____
Air bag type rear cab suspension	_____	_____
10 hole hub-piloted 22.5" disc wheels	_____	_____
11R 22.5 G front tires, 14 ply	_____	_____
11R 22.5 G aggressive tread rear tires, 14 ply	_____	_____
Color: White. Cab & Hood to be painted basecoat, clear coat, Imron, or approved equal.	_____	_____

# REARLOADING REFUSE COLLECTION TRUCK BODY

## Suggested Bid Specifications

SCOPE: It is the intent of this specification to describe a hydraulically actuated packer body of the rear loading type with the following minimum specifications considered necessary to perform the work assigned. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and dispensing the load by means of hydraulic ejection. The body shall not be required to be tilted, lifted, or otherwise displaced from the chassis in order to eject the load.

GENERAL: All equipment furnished under this contract shall be new and unused, and the same as the manufacturers current production model. Accessories not specifically mentioned, but necessary to furnish a complete unit ready for use, shall also be included. The equipment furnished shall conform to all ANSI safety Standards A245.1-1984.

## Suggested Bid Specifications

Bidder shall complete the following.  
If NO, state specifically the item being offered.

	YES	NO	OFFERED
<b>A. Capacity</b>			
1. The body shall have a minimum capacity of:			
a. 20 cubic yards	_____	_____	_____
2. The body shall have an average compaction rate of 850 to 950 pounds per cubic yard	_____	_____	_____
<b>B. Body Dimensions</b>			
1. Maximum overall width not to exceed 96"	_____	_____	_____
2. Maximum overall length and height ( <i>with tailgate in locked position</i> ) above the chassis frame not to exceed:			
Capacity      Length      Height      Cab to Axle			
a. 20 Cu./Yd.      244.5"      83"      138"	_____	_____	_____
3. Body weight (exclusive of options) shall not exceed:			
Capacity      Weight			
a. 20 Cu./Yd.      12,390 pounds	_____	_____	_____
<b>C. Body Construction</b>			
1. The body shall be constructed entirely of 10 gauge 80,000 PSI steel	_____	_____	_____

	YES	NO	OFFERED
2. All pivot points shall be provided with grease zerks.	_____	_____	_____
3. Body sides, roof shall be curve shell design without the need of side bracing. Continuous operation at maximum loads without harmful deformation or wear.	_____	_____	_____
4. The roof shall be constructed of 10 gauge 80,000 PSI steel	_____	_____	_____
5. The roof shall be curved upward and braced with a 3/16" x 2" x 8" rectangle tube centered on the inside of the body steel.	_____	_____	_____
6. The body sides shall be constructed of 10 gauge 80,000 PSI steel. Sides shall be braced along the bottom 3½" x 12" from tailgate tapered to a point at the front of the body. Braces shall be interconnected with floor gussets and continuously welded. Rear portion of side brace shall connect to a 12" x 16" triangular gussets and all seams continuously welded for maximum strength.	_____	_____	_____
7. The body floor shall incorporate a trough design <i>(flat floors not acceptable)</i>	_____	_____	_____
8. The body upper floor sides shall be 10 gauge 80,000 PSI steel	_____	_____	_____
9. The body floor center shall be ¼" plate high tensile steel	_____	_____	_____
10. The trough shall be constructed of two 8" channel sills to hold the ejection blade in line under the most extreme load conditions	_____	_____	_____
11. Side access door shall be located on the street side of the body sidewall. The door shall be securely fastened to the body side wall by a piano hinge	_____	_____	_____

**D. Tailgate Dimensions**

1. Hopper opening width shall not be less than 74"	_____	_____	_____
2. Hopper capacity shall not be less than 3 cubic yards	_____	_____	_____

	YES	NO	OFFERED
3. Hopper cycle time with the standard PTO and pump shall not exceed an average of 30 seconds	_____	_____	_____
<b>E. Tailgate Construction</b>			
1. Tailgate sides shall be constructed of a minimum of 7 gauge high tensile sheet steel, and the upper sides shall be constructed of a minimum of 10 gauge high tensile sheet steel	_____	_____	_____
2. Tailgate sides shall be reinforced by 1¾" x 4" bracing constructed of 7 gauge formed steel and fully welded in a horizontal position for maximum support	_____	_____	_____
3. The slide blade guide track shall be constructed of ½" x 2½" AR400 steel reinforced by formed ¼" high tensile steel. ( <i>Free floating design is not acceptable</i> )	_____	_____	_____
4. The tailgate shall be equipped with an automatic hydraulic locking system with a pilot check valve to ensure constant pressure for a tight seal	_____	_____	_____
5. The tailgate shall be raised by two 3½" x 24" double acting cylinders equipped with clevis ends and restrictors to prevent precipitous tailgate decent in the event of a broken hydraulic line	_____	_____	_____
6. The tailgate perimeter edge shall be reinforced by 2" x 2" structural tube steel	_____	_____	_____
7. Tailgate shall be equipped with a chemically inert seal to provide a watertight seal	_____	_____	_____
8. Hopper floor shall remain stationary during the packing cycle and shall be equipped with a 1½" drain plug	_____	_____	_____
9. Hopper floor shall be a minimum of ¼" high tensile steel adequately braced to withstand maximum pressures imposed upon it. Hopper back ¼" T-1 steel	_____	_____	_____
10. The hopper load sill shall be constructed from a 3/8" plate and be even with the chassis frame height	_____	_____	_____

	YES	NO	OFFERED
11. Self-cleaning grip strut steps and grab handles shall be required on both sides of the tailgate	_____	_____	_____

**F. Packing Mechanism Construction**

1. The sweep blade shall be of the backhoe packing type and designed to have a minimum clearance to thoroughly clean the hopper bottom during cycling	_____	_____	_____
2. The sweep blade face plate shall be constructed of 1/4" high strength sheet steel and shall be reinforced with internal and lateral braces constructed of 3/8"-6" x 6" angle	_____	_____	_____
3. The sweep blade shall be powered by two 5" x 16" double acting cylinders equipped with bronze bushings	_____	_____	_____
4. The slide blade face plate shall be constructed of 1/4" high strength sheet steel	_____	_____	_____
5. The slide blade shall be powered by two 4 1/2" x 36" double acting cylinders	_____	_____	_____
6. The linear slide movement of the blade shall be accomplished on two 4 1/2" x 2 1/4" x 24" high density UHMW guide bearing blocks	_____	_____	_____
7. The pivotal rotation of the sweep blade shall be accomplished through the sweep blade pivot which shall consist of two 2" diameter stress proof pivot pins with bronze bushings	_____	_____	_____
8. Both ends of the pivot shaft shall be equipped with bronze bushings	_____	_____	_____

**G. Ejection Blade Construction**

1. Ejection blade shall form the front of the body and be hydraulically operated and designed to have a minimum clearance to thoroughly clean the body during cycling	_____	_____	_____
2. The load shall be discharged by means of a positive ejection system. A double acting, telescopic cylinder shall extend and retract the full length of the body	_____	_____	_____

	YES	NO	OFFERED
3. The ejection blade shall be constructed of 10 gauge 50,000 PSI sheet steel and reinforced with trapezoidal cross members of high 3" x 3" and 4" x 4" structural tube	_____	_____	_____
4. The ejection blade shall slide in an 8" channel sill on four high density UHMW slide bearing blocks	_____	_____	_____
5. The telescopic cylinder shall be horizontally positioned and consist of the following dimensional characteristics:			
Capacity                      Stage                      Bore			
a. 20 Cu./Yd.                      4 Stage                      6.5"	_____	_____	_____
6. No clamping cylinder or clamping mechanism shall be required	_____	_____	_____

**H. Controls**

1. The ejector blade and tailgate raise control shall be mounted inside the front left hand side of the body. Controls are accessed through opening located in access door. Controls will not come into contact with any refuse and are protected from outside elements	_____	_____	_____
2. An electrical device shall be supplied to automatically raise the engine speed to the proper RPM during the packing cycle	_____	_____	_____
3. An additional throttle advance switch shall be mounted at the front left hand side of the body near the tailgate raise control handle and at the rear right hand side near the packing blade control	_____	_____	_____
4. A Back Pack Valve shall be required to automatically advance the ejector panel when packing against it	_____	_____	_____
5. The packing blade control shall be designed to accomplish the normal packing cycle in two steps and shall be reversible or stopped at any time during the cycle	_____	_____	_____

	YES	NO	OFFERED
6. The packing blade control shall be a two handle design and located at the rear of the tailgate on the curbside	_____	_____	_____
<b>I. Hydraulic System</b>			
1. A power takeoff/pump combination shall be used to power the hydraulic system	_____	_____	_____
2. All hydraulic valving shall be mechanically operated and use direct link controls	_____	_____	_____
3. The hydraulic pump shall provide a delivery of 29 GPM at 1200 RPM	_____	_____	_____
4. Normal maximum operating pressures shall not exceed 2000 PSI	_____	_____	_____
5. The hydraulic system shall incorporate a relief valve and a hydraulic pressure gauge to protect all components from excess pressures	_____	_____	_____
6. All hydraulic hoses shall conform to S.A.E. Standards. No flat spots in hoses will be acceptable	_____	_____	_____
7. Hydraulic tank shall not be less than 40 gallons and must be equipped with a sight and temperature gauge. The tank shall be located inside the body	_____	_____	_____
8. A replaceable 10 micron in tank immersed filter with bypass valve and visual indicator shall be furnished in the return line of the hydraulic system	_____	_____	_____
9. A shut-off valve shall be mounted on the suction line near the oil tank	_____	_____	_____
10. All cylinder rods shall be chrome plated	_____	_____	_____
11. All cylinders shall incorporate nylon wear rings on the piston and rods to prevent metal to metal contact, and an "O" ring is to be used to preload the seal	_____	_____	_____
12. All cylinder rod end pin lugs shall be inertia welded to the cylinder rod	_____	_____	_____

	YES	NO	OFFERED
<b>J. Electrical</b>			
1. All body wiring shall be loomed and/or in conduit with heat shrunk connectors	_____	_____	_____
2. The body shall be equipped with approved clearance, warning, tail, license, stop and turn signals in compliance with the national safety standards	_____	_____	_____
3. The body shall be equipped with an external audio backup alarm activated when the chassis is in reverse	_____	_____	_____
4. Driver alert buzzer shall be installed at the rear of the tailgate located by the packing controls	_____	_____	_____
5. A light shall illuminate in the cab when the tailgate is open and an audible alarm will sound when the vehicle is placed in reverse while the tailgate is open	_____	_____	_____
6. A light bar shall be mounted on the upper section of the tailgate and consist of stop, turn, and three clearance lights, in accordance to the national safety standards	_____	_____	_____
7. It shall include a rear vision camera, Safety Vision, or equivalent	_____	_____	_____
<b>K. Paint</b>			
1. The body shall be properly cleaned of all dirt, oil, and welding slag. Gray DuPont Color, lead-free primer with rust-inhibitors shall be applied	_____	_____	_____
2. DuPont Imron 5000 paint shall be applied Specify paint code: _____ Specify paint color: _____	_____	_____	_____
<b>L. Mounting</b>			
1. Body shall be mounted in accordance to industry standards. No welding shall be performed on the chassis frame in the mounting process	_____	_____	_____

	YES	NO	OFFERED
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<p><b>M. Warranty</b></p> <p>1. Manufacturer's limited warranty shall apply for a period of one year for body and two years for cylinders after date of acceptance of unit</p>	_____	_____	_____
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**N. Optional Equipment Required**

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|--|-------|-------|-------|
| <p>1. Hot shift PTO with Pack-On-The-Go capability</p>   | _____ | _____ | _____ |
| <p>2. 12,000 pound capacity reeving cylinder winch and container attachment</p>  | _____ | _____ | _____ |
| <p>3. (4) Amber LED strobe lights - (2) in rear light bar and (2) in upper front body wall</p>   | _____ | _____ | _____ |
| <p>4. (2) Hopper work lights</p>   | _____ | _____ | _____ |
| <p>5. Extended load sill and hydraulics package for future installation of cart tipper including control valve and steel hydraulic lines to bottom of tailgate-rubber hydraulic hoses not acceptable.</p>      | _____ | _____ | _____ |
| <p>6. Rear mud flaps.</p>  | _____ | _____ | _____ |
| <p>7. In-cab air controls which allow driver to hydraulically unlatch tailgate, raise tailgate, eject load, lower tailgate and relatch tailgate without leaving the safety of the truck cab. NO EXCEPTIONS</p> | _____ | _____ | _____ |
| <p>8. 6" flat sceen LCD color monitor &amp; camera system</p>  | _____ | _____ | _____ |
| <p>9. 10# fire extinguisher mounted on tailgate</p>  | _____ | _____ | _____ |

**O. Delivery**

<p>1. Delivery of completed unit (truck &amp; body) shall not exceed _____ days from receipt of purchase order.</p>	_____	_____	_____
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