

Specifications for **ONE (1) NEW 2014 OR 2015 TANDEM AXLE, TILT CAB, 66,000 G.V.W. CHASSIS AND ONE (1) NEW 2014 OR 2015 40 CUBIC YARD FRONT LOADING REFUSE COMPACTOR BODY** to be mailed on September 26th, 2014 to the following:

Tri-State Equipment
5024 Tri-Hill Frontage Rd.
Great Falls, MT 59404

Motor Power
Charlie Bennett
P.O. Box 2264
Great Falls, MT 59403

Billings Truck Center
P.O. Box 30236
Billings, MT 59107

McNeilus
Greg McCarty
2221 South 3270 West
West Valley City, UT 84119

Montana Peterbilt Co.
Attn: Roger Beatty
9550 Cartage Road
Missoula, MT 59808

Kois Brothers
P.O. Box 1728
Great Falls, MT 59403

I-State
Travis Sandau
2121 Vaughn Road
Great Falls, MT 59404

Solid Waste Systems
Bob Eldevik
P.O. Box 13040
Spokane, WA 99213

Wittke Waste Equipment
Attn: Marlis
P.O. Box 1180
1496 Brier Park Cres. N.W.
Medicine Hat, Alberta T1A7H

Great Falls Truck Center
Jim Alquist
P.O. Box 2472
Great Falls, MT 59403

Rocky Mountain Truck Center
Corey Biggers
310 Alaska Frontage Road
Belgrade, MT 59714

Jack's Truck and Equipment
PO Box 1628
Gillette, Wyoming 82717

Waste Co. Manufacturing
Attn: Tawnya Feldman
926 E. Industrial Dr.
Dickinson, N.D. 58601

Waste Co. Manufacturing
Attn: Tom Knudson
1435 13th St. West
Dickinson, ND 58601-3547

Transport Equipment
8210 Highway 10 West.
Missoula, MT 59802

Olympic Sales
Greg C. Krutsinger
P.O. Box 5701
Fargo, ND 58105

Ron Alles
City Manager

Randall Camp
Public Works Director

Pete Anderson
Solid Waste Superintendent

Jim Lang
Solid Waste Supervisor

**CITY OF HELENA
NOTICE TO BIDDERS**

The City of Helena will receive sealed bids for the purchase of **ONE (1) NEW 2014 OR 2015 TANDEM AXLE, TILT CAB, 66,000 G.V.W. CHASSIS AND ONE (1) NEW 2014 OR 2015 40 CUBIC YARD FRONT LOADING REFUSE COMPACTOR BODY.** Bids will be opened at 2:30 p.m. local time on **October 15th, 2014,** in the office of the City Clerk, City of Helena, 316 North Park Avenue, Helena, Montana.

Anyone wishing to submit bids may obtain detailed specifications from the City Fleet Maintenance Facility, 3001 E. Lyndale Avenue, Helena, MT, 59623, (406)447-1565, or from the City of Helena website, <http://www.helenamt.gov/departments/public-works/fleet.html>.

The City of Helena reserves the right to reject any or all bids, to waive irregularities in the bidding process, or to accept the bid deemed to be in the best interests of the City of Helena.

Upon reasonable notice, the City of Helena will provide assistance for those persons with sensory impairments. For further information, please contact the City Clerk at 447-8410 or TDD Relay service 1-800-253-4091 or VOICE 1-800-253-4093.

CITY OF HELENA, MONTANA
/s/ Ron Alles
City Manager

Advertise: September 28, 2014

October 5, 2014

(Legal Ad)

**INDEPENDENT RECORD
PLEASE NOTE:**

PLEASE BILL THIS LEGAL AD TO:

**THE CITY OF HELENA
FLEET MANAGEMENT
ATTN: Ben Sautter
316 N. PARK AVE.
HELENA, MT 59623**

CITY OF HELENA
INSTRUCTIONS TO BIDDERS

September 26th, 2014

Notice is hereby given that sealed bids will be received by the City Clerk for the City of Helena in the City-County Administration Building, Room 320, 316 North park, Helena, Montana until 2:30 p.m. local time on **October 15th, 2014** for the purchase of **ONE (1) NEW 2014 OR 2015 TANDEM AXLE, TILT CAB, 66,000 G.V.W. CHASSIS AND ONE (1) NEW 2014 OR 2015 40 CUBIC YARD FRONT LOADING REFUSE COMPACTOR BODY.**

No bid will be considered unless accompanied by a cashier's check, certified check, bank money order or bank draft, or by a bid bond; which security instruments shall be made unconditionally payable to the City of Helena, in an amount equal to ten percent (10%) of the amount bid. Bid security shall be returned to the unsuccessful bidder immediately after execution of contract/purchase order.

Bids are to be addressed to the City Clerk, City of Helena, 316 North Park, Helena, Montana 59623, and are to be marked on the outside of the envelope: **"BID FOR FRONT-LOADING REFUSE TRUCK"**. Bids received after the stipulated time shall be returned unopened.

By submission of this bid, each bidder certifies, and in the case of a joint bid each party thereto certifies as to his own organization, that this bid has been arrived at independently, without consultant, communication, or agreement as to any matter relating to this bid with any other bidder or with any competitor.

In the event only one bid is received it will be returned unopened and the City shall re-advertise and rebid inclusive of vendors outside the Helena area. This provision does not apply if there is not a supplier of the bid item(s) in the Helena area.

Bidder shall upon submitting a bid, return completed City of Helena bid specification minimum requirement worksheets.

Bidder shall enter on the Request for Quotation the brand, model and year in the appropriate column.

The City of Helena reserves the right to reject any or all bids, to waive irregularities, or to accept any bid deemed to be for the public good.

Bids may be held by the City of Helena for a period not to exceed thirty (30) days from the date of opening of the Bids for the purpose of reviewing the bids and investigating the qualifications of the Bidder, prior to the award of the contract. The Bidder agrees that this bid shall be good and may not be withdrawn during this thirty (30) day period.

Specifications and Proposal

ONE (1) NEW 2014 OR 2015 TANDEM AXLE, TILT CAB, 66,000 G.V.W. CHASSIS AND ONE (1) NEW 2014 OR 2015 40 CUBIC YARD FRONT LOADING REFUSE COMPACTOR BODY

<u>Description</u>	<u>Minimum requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
Cab & Chassis Tandem Axle, Tilt Cab, 66,000 G.V.W.R. Chassis				
Engine:				
	Diesel minimum 325 HP. Cummins	_____	_____	_____
	Full variable speed governor	_____	_____	_____
	Minimum 15.5 cubic feet air compressor.	_____	_____	_____
	Oil filters full flow spin on type.	_____	_____	_____
	Fuel filters - spin on type.	_____	_____	_____
	Racor heated fuel filters & water separator.	_____	_____	_____
	900 sq. inch radiator with no coverage by cab, with maximum cooling and no more than nine fins to the inch; heavy duty top and bottom bolted tanks. Radiator must provide access for engine driven H/D gear pump Radiator core will be modified with a 7" X 7" hole for engine crank adapter.	_____	_____	_____
	This vehicle will be operating stop and go at frequent intervals with restricted air flow and ambient temperatures in excess of 115 degrees Fahrenheit. It will be operated continuously in low gear ratios.	_____	_____	_____
	Anti-freeze to 45 degrees Fahrenheit below zero.	_____	_____	_____
	12 volt, 90 amp alternator.	_____	_____	_____
	2-12 volt maintenance free batteries, 625 c.c.a. each.	_____	_____	_____
	Battery disconnect to kill all power from battery at the battery.	_____	_____	_____
	Air cleaner, with dual element, outside air intake, with step type air restriction indicator, Fram SP-3539 or equivalent.	_____	_____	_____

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
Engine: (Cont.)				
	Air dry system for air lines, with spin on cartridge Wabco type.	_____	_____	_____
	Muffler, maximum silence rated at 85db or latest U.S. Government specifications. Mounted on right hand side of cab vertical mounted.	_____	_____	_____
	80 gallon fuel tank with fuel cap clearly exposed.	_____	_____	_____
	Engine preheater, factory installed.	_____	_____	_____
	Engine heater in block.	_____	_____	_____
Transmission:				
	Allison automatic 4500 series 450 RDS 6 speed or better to match engine torque.	_____	_____	_____
	External mounted air to oil cooler and external from radiator.	_____	_____	_____
	External transmission oil filter pin on type.	_____	_____	_____
	Power take-off opening.	_____	_____	_____
Brakes:				
	Q cam type front and rear with stroke sensitive self-adjusters with outboard mounted cast iron brake drums to match equipment specifications.	_____	_____	_____
	Lanyard operated drain valve on wet tank.	_____	_____	_____
	Racor or equal thermostatically controlled, automatic "Spitter" valve on primary air tank.	_____	_____	_____
	All other tanks to have manual drain valves.	_____	_____	_____
	Emergency air brake with dash mounted release and warning light.	_____	_____	_____
Suspension:				
	Front axle Rockwell 20,000 lb with minimum 20,000 lb. springs.	_____	_____	_____

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
Suspension Continued:				
	Rear axle 44,000 lb Hendrickson heavy duty.	_____	_____	_____
	Oil filled front hubs with sight glass.	_____	_____	_____
	Rear axle to have power divider lock-out with dash mounted warning light.	_____	_____	_____
	Inter axle lock and inter differential lock.	_____	_____	_____
	Power steering, extra heavy duty with right hand ram.	_____	_____	_____
Rear Axle:				
	Rockwell SQR 100 44,000 lb. with a 4.88 ratio.	_____	_____	_____
	Main drive line to be 1810 series.	_____	_____	_____
Tires: Hubs, Wheels and Tires:				
	Aluminum hubs and configured seals.	_____	_____	_____
	Stemco oil bath front wheel seals required.	_____	_____	_____
	Stemco "Grit Guard" rear wheel seals required.	_____	_____	_____
	Front wheels 2 (two) aluminum 22.5" x 9", 10 hole hub piloted, 11-1/4" bolt circle 8-13/32" bore, 2 hand hole, 7/16" section, wheels suitable for steel belted radial tires required.	_____	_____	_____
	Front tires 2 (two) 315/80 22.5, Michelin XZY3 20 PLY radial.	_____	_____	_____
	Rear wheels 8 (eight) aluminum 22.5" x 9", 10 hole hub piloted, 11-1/4" bolt circle 8-13/32" bore, 2 hand hole, 7/16" section suitable for steel belted radial tires required.	_____	_____	_____
	Rear tires 8 (eight) 315/80 22.5 Michelin XZY3 20PLY radial.	_____	_____	_____

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
Cab:				
	Maximum cab width door to door 84".	_____	_____	_____
	Fresh air heater, 50,000 BTU.	_____	_____	_____
	Factory installed air conditioner.	_____	_____	_____
	Fresh air defroster 50,000 BTU.	_____	_____	_____
	AM/FM Radio with 2 speakers.	_____	_____	_____
	Dual windshield wipers, variable, with windshield washer.	_____	_____	_____
	King size west coast mirrors mounted both sides/chrome.	_____	_____	_____
	Eight inch convex mirrors mounted below west coast mirrors.	_____	_____	_____
	Air ride type driver's seat.	_____	_____	_____
	Passenger seat, stationary.	_____	_____	_____
	Full coverage fenders with fender flares.	_____	_____	_____
	Tinted front windows. 360 degree visibility	_____	_____	_____
	Door windows roll-down type with tinted windows passenger side electric.	_____	_____	_____
	Dual sun visors.	_____	_____	_____
	Auxiliary cab fan (one).	_____	_____	_____
	Fully insulated and sound deadened.	_____	_____	_____
	Back of cab air horn.	_____	_____	_____
	Grab handles both sides.	_____	_____	_____
	Engine hour meter.	_____	_____	_____
	Water temperature gauge/direct reading.	_____	_____	_____
	Heavy duty rear bumper.	_____	_____	_____
	Engine oil gauge/direct reading.	_____	_____	_____

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
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Cab Continued:

	Cab height doors - minimum 56" height/33" width.	_____	_____	_____
	No obstructions on driver floorboard.	_____	_____	_____
	Transmission temperature gauge direct reading.	_____	_____	_____
	Front cab guard factory installed 2 vertical bars reinforced where mounted to front of cab.	_____	_____	_____
	Volt meter gauge/direct reading.	_____	_____	_____
	Air pressure gauge/direct reading.	_____	_____	_____
	Fuel gauge/direct reading.	_____	_____	_____
	Audio alarm for low radiator level, high water temperature (205 degrees), low oil pressure and high transmission temperature (225 degrees).	_____	_____	_____
	Back-up alarm, ECCO SA907 or equal meeting all state requirements.	_____	_____	_____
	Video monitor for backup, hopper and side view cameras.	_____	_____	_____

Frame:

	10 3/4 inch (minimum) with minimum 3/8" thickness required, cross members with minimum 3 bolts per side.	_____	_____	_____
	Full steel inner liner with manufacture's recommended number of cross members.	_____	_____	_____
	Rear wheel mud flap hangers (with mud flaps).	_____	_____	_____
	29.4 SM-R.B.M. 3,000,000 in/lb with reinforcements per rail.	_____	_____	_____
	<u>Extra</u> heavy-duty front bumper.	_____	_____	_____
	One (1) front center frame mounted extra heavy duty tow hook and rear tow hooks (2).	_____	_____	_____

Electrical & Lighting:

	All wiring shall be in metal conduit where possible and where impractical shall have rubber grommets to provide for chafe protection.	_____	_____	_____
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<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
Electrical & Lighting Continued:				
	All lights and reflectors shall meet Montana Vehicle Code and all Federal Vehicle Safety Standards LED, Flashing, strobes.	_____	_____	_____
	Two (2) complete wiring diagrams shall be provided for complete body and pickup mechanism.	_____	_____	_____
	Daytime headlights key on operation.	_____	_____	_____
Color:				
	Cab shall be green metallic with white body. Color to be determined at pre-award meeting.	_____	_____	_____
Miscellaneous:				
	Minimum ground clearance of accessories to be 18" between axles to clear rough terrain.	_____	_____	_____
	Shall meet all D.O.T. and O.S.H.A. requirements.	_____	_____	_____
Warranty:				
	Cab and Chassis warranty minimum one (1) year. State warranty _____	_____	_____	_____
	Warranty work shall be performed in Helena. If warranty work is required outside of Helena all transportation, mileage, labor and repairs are the responsibility of the bidder.	_____	_____	_____
	A full-time, complete local parts and service facility offering factory authorized warranty service and maintaining a local parts supply adequate to perform complete repair is required.	_____	_____	_____
	Describe the terms of the warranty offered: _____ _____	_____	_____	_____
	REAR AXLE WARRANTY: Minimum 5 years/200,000 miles.	_____	_____	_____
	TRANSMISSION WARRANTY: Minimum 4 years Standard 120,000 miles.	_____	_____	_____

Description Minimum Requirements

Yes No Exception

Warranty Continued:

ENGINE WARRANTY: Min. 2 years/250,000 miles; zero deductible; manufacturer/dealer shall provide service and inspections as necessary to keep warranty valid, except for fluid and filter changes; manufacturer/dealer shall be responsible for fluids and filters that require replacement due to an engine problem; include complete details of warranty and a list of preventative maintenance checks that will be required, including estimated hours of down time required for each check.

All warranties shall begin on the date the vehicle is placed in service, not the delivery date; vendor will be notified of in-service date.

One (1) copy of all applicable warranties for truck and all components shall be submitted with bid.

Body and apparatus warranty minimum one (1) year
State body warranty _____

GENERAL:

Pre-Award Meeting:

Prior to preparation of the letter of intent to award to qualified bidder, a complete review will be required of bidder's ordering data, the submitted allowed manufacturer's literature and the City's purchase specifications to ensure that the bidder response to general and technical specification requirements fulfills the specification requirements.

The successful Vendor will provide Application for Certification of Title or completed MSO and Title Application made out per current Montana State Law with delivery of unit.

Equipment and components necessary for operations, and normally supplied, shall be furnished with the vehicle even if not called for in the specifications.

The vehicle and all equipment shall be new. Used, demonstration, rebuilt, or remanufactured is unacceptable.

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
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Delivery:

The bidder will be responsible for delivering the completed unit to the City of Helena ready for use. The bid will include all freight and delivery charges. The unit must be delivered within 180 days of placing the order. Vehicle usage may not exceed 1000 miles or 100 hours. If the vehicle exceeds 1000 miles or 100 hours an engine oil and filter service will be required before delivery.

BODY SPECIFICATIONS:

ONE (1) NEW 2014 OR 2015 TANDEM AXLE, TILT CAB, 66,000 G.V.W. CHASSIS AND ONE (1) NEW 2014 OR 2015 40 CUBIC YARD FRONT LOADING REFUSE COMPACTOR BODY

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
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Capacity:

The partial pack front loader body shall have a capacity of not less than 28 cubic yards excluding the receiving hopper.

The hopper shall have a capacity of twelve (12) cubic yards minimum.

Body:

Body length including fixed cab shield 350", (cab shield 53").

Overall length with arms down and forks up 408".

Overall length with arms down and forks horizontal (full tuck forks) 465".

Body width, outside 96".

Body width, inside (max) 88".

Body height, inside 86" minimum.

Body height above chassis rail, arms down 120".

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
Body (Cont.)				
	Body height above chassis rail, arms up (full tuck forks) 120".	_____	_____	_____
	Height above frame tailgate raised including rear underride guard 183".	_____	_____	_____
	Hopper width (bottom) 78".	_____	_____	_____
	Hopper width (top) 80".	_____	_____	_____
	Hopper length (at roof) 93".	_____	_____	_____
	Hopper depth (bottom of curve) 99-3/4".	_____	_____	_____
Construction:				
	Packer body to be curved (body sides, roof & body floor) and of overhead loading design. Hopper will be designed to properly handle containers from 2-8 cubic yard capacity.	_____	_____	_____
Roof:	Minimum 1/8 " HARDOX 450 (175,000 PSI minimum)	_____	_____	_____
Side Walls:	Lower hopper sides - minimum 1/4" RQC321 abrasion resistant steel 175,000 PSI minimum yield.	_____	_____	_____
	Intermediate hopper side 8 gauge HARDOX 450 steel sheet, 175,00PSI minimum yield.	_____	_____	_____
	Body sides - minimum 8 gauge high tensile steel sheet, 175,000 PSI minimum yield.	_____	_____	_____
Hopper Floor:	Minimum 3/16" HARDOX 450, 175,000 PSI minimum yield in forward hopper area, under packer panel; remainder 1/4" RQC321, 175,000 PSI minimum yield, rear hopper floor.	_____	_____	_____
Body Floor:	Minimum 8 gauge, HARDOX, 175,000 PSI yield full length.	_____	_____	_____

Body Floor Reinforcing:

Front intermediate and rear brace shall be formed from 11 gauge 80,000 PSI minimum yield. Minimum depth to be 3-7/8" formed to floor radius. Front brace width 4" X 3" X .250 HSS, intermediate brace width 3" X 3" X .250 HSS, and rear brace width is 3" X 3" X .250 HSS.

Longitudinales:

6" X 2" X .250 HSS, 8 gauge, 45,000 PSI minimum yield formed box section.

Roof & Side Reinforcing:

Roof reinforcing shall be minimum 4" X 2" X 1/4" structural tubing. Reinforcing at front and rear of roof shall be curved to match roof radius.

Body side wall reinforcing shall be 6" wide X 4" deep formed channel. Bolster at hopper to body joint to be 1/4", 45,000 PSI minimum yield material. All others shall be 11 gauge 80,000 PSI minimum yield material.

Upper and lower longitudinal corner box braces to be formed from 10 gauge 80,000 PSI minimum yield.

Hopper Side Reinforcing:

Lower side bracing minimum of three (3) 10 gauge high tensile pressed 5" X 3" channel (80,000 PSI minimum yield) will brace the lower section of the hopper sides.

Upper side bracing minimum of one (1) 10 gauge high tensile pressed 5" X 2" channel (80,000 PSI minimum yield) will brace the upper section of the hopper sides.

All hopper braces will be continuously welded to the hopper side sheets.

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
Top Access Ladder:				
	Access ladder to be located on the street side just aft the intermediate side brace. One (1) rung will project below floor level for easier access.	_____	_____	_____
Side Access Door:				
	The door will be located at the front street side with a minimum opening of 39" X 32" (1238 sq. in.). Steps and grab handles shall be provided for ease of entry. Electrical interlock shall be provided to halt the packer panel motion whenever the side door is opened.	_____	_____	_____
Lifting Top Door:				
	A hydraulically actuated sliding top door will be provided to cover the hopper when in transit.	_____	_____	_____
	The top door cylinder will have a minimum 2-1/2" diameter double acting X 68-1/2" stroke with a 1-1/2" diameter chrome plated rod.	_____	_____	_____
	An in-cab mounted warning light will be provided to indicate when the top door is not fully opened.	_____	_____	_____
	Construction 12 gauge hot rolled steel. Structural framing shall be 2" square tubing X 1/8" wall.	_____	_____	_____
Packing Mechanism:				
	A hydraulically actuated packer, automatically traverses a minimum of 78" of the body, clearing the hopper of material, and returns to the front head. Maximum cycle time twenty (20) seconds.	_____	_____	_____
	The lower packing panel face will be a minimum 3/16" HARDOX 450 abrasion resistant steel sheet, 175,000 PSI minimum yield. The upper, vertical face will be a minimum 8 gauge HARDOX 450 steel sheet, 175,000 PSI minimum yield. The packer will be reinforced with a combination of structural members for maximum rigidity.	_____	_____	_____

Packing Mechanism Continued:

Packing mechanism guide rails (A) Packing Zone upper guides (2) formed from 1/4" high tensile steel plate (80,000 PSI min. yield) welded to hopper and body sides. Lower 2 to be 4" X 3-1/2" X 5/16" structural angle welded to floor/side corners. One 1/2" X 3" abrasive resistant wear bar (145,000 PSI min. yield) is welded to top of each structural angle.

Packing Mechanisms guide rails (B) Ejection Zone Upper track (2) formed from 7 gauge high tensile Steel sheet (80,000 PSI min. yield) welded to body side/floor corner. Lower guide (2) to be 4" X 3-1/2" X 1/4" structural angle welded to floor/side corner. One 1/4" X 3" abrasion resistant wear bar (145,000 PSI min yield) is welded to top of each structural angle.

Packer mechanism shall be guided on both sides of the body by two (2) 3/8" X 3" X 38" long abrasion resistant (145,000 PSI minimum yield) wear plates on guide tubes.

The packer will be hydraulically actuated by two (2) double acting, 5-1/2" telescopic cylinders, 3 stage, 170" stroke.

Packing Force minimum cylinder compaction force will be 110,000 lbs.

Pack cycle to be interlocked with tailgate raise function such that full eject if possible only when tailgate is in the raised position. An additional interlock shall be provided to prevent raising the arms above the cab if the packing panel is not full forward.

A "Stop" and "Retract" push button shall also be furnished, giving the operator complete control of packer panel movements.

Bustle Tailgate:

Tailgate must be one piece top hinged and will open approximately 30 degrees above horizontal.

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
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Bustle Tailgate Continued:

Tailgate will be constructed of a minimum 1/8" HARDOX 450 steel sheet (175,000 PSI minimum yield) rear and side walls.

The tailgate will be reinforced by a minimum 12 gauge high tensile (50,000 PSI minimum yield) horizontal boxed brace.

The tailgate will be secured to the body by two (2) sets of hinges with 1 1/4" hinge pins at the roof line.

The tailgate shall be secured in the closed position by means of an automatic latching mechanism actuated by the tailgate raise cylinders, and controlled by the driver from within the cab.

A heavy duty rear door seal (protected from garbage damage) made of rubberized gasket material will be installed the full length of the bottom and 18" up the sides of the rear body opening to prevent leakage.

The tailgate shall be hydraulically actuated by two (2) double-acting cylinders with a minimum bore of 2.5" diameter X 38.0" stroke 1-3/4" diameter chrome plated rod. Cylinder design shall also include an orifice fitting in the base port which will prevent the rapid descent of the tailgate in the event of a hydraulic failure.

Tailgate shall have safety props manually operated to hold the tailgate open to work under.

All lights will be recessed into the tailgate with the lens flush with the outer skin. Clearance, backup and directional lights will be a Lexan lens, shock mounted in a protective housing. The whole unit will be pop-out and replaceable. All vehicles will meet Federal and State lighting and reflector requirements.

An in-cab mounted light and audible alarm will be provided to indicate the tailgate is not fully closed.

Lift Arms: The lift arms will be 4.5" bore arm cylinder, capable of lifting 8,000 lbs. gross container and payload.

Lift Arms Continued:

Lift arms shall be capable of lifting loaded containers from a truck dock with 9' maximum pocket height. _____

Lift arm cycle time will be approximately 18-20 seconds (maximum). _____

Pick up, dump, and disengagement will be done Without the need for assistance and without the driver leaving the cab. _____

The lift arms, during the dump cycle must not Obstruct or interfere with the opening of the truck cab doors on either side. _____

Two (2) 3" X 8" rigidly constructed lift arms will be welded to a 4-1/2" diameter rear torque tube. The torque tube will be mounted in four (4) split bearing blocks with two (2) replaceable split bronze bushings with grease provisions. The four (4) split bearing blocks will be rigidly welded to the lower front of the body. The lift arms will be hydraulically actuated by two (2) double acting cylinders 4-1/2" diameter X 41-1/2" stroke with a 2-1/2" diameter induction hardened and chrome plated rod. The cylinders will be located outside the body at floor level and directly attached to the lift arms. _____

Two (2) 1 1/2 " thick high tensile (100,000 PSI minimum yield) forks will be welded to a 3-1/2" diameter fork torque tube. The torque tube will be mounted in two (2) split bearing blocks with two (2) replaceable split bronze bushings with grease provisions. The two (2) split bearing blocks will be rigidly welded to the front of the lift arms. _____

The forks will be hydraulically actuated by two (2) double acting cylinders 3.5" diameter X 18" stroke with a 1.75" diameter induction hardened and chrome plated shaft. _____

Forks shall be designed to provide the necessary dump angle to assure complete discharge of materials from the refuse containers. _____

Fork Cross shaft shall be attached to the arms by bolts, through the split bearing blocks. _____

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
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Lift Arms: (Cont.)

Lift arms are brought to a smooth stop in the raised position by use of a cam operated deceleration valve or cushioned cylinders.	_____	_____	_____
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Heavy duty bolt-on hard rubber arms stops Located at the side of the body will cushion and Prevent over travel of the lift arms.	_____	_____	_____
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Maximum travel height with the lift arms in the raised position and forks fully retracted will be 13'6" (based on a chassis rail height of 42").	_____	_____	_____
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An in-cab mounted warning light will be provided to indicate when any part of the arms are raised above the body.	_____	_____	_____
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Hydraulics:

The maximum operating pressure of the system will be 2,500 PSI.	_____	_____	_____
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A heavy duty gear pump shall be provided with a rated capacity of 54 GPM @ 1,500 RPM, and shall be driven off the front of the engine.	_____	_____	_____
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All hydraulic tubes will be securely clamped to prevent vibration, abrasion, and excessive noise. All hydraulic tubes shall be protected from wheel splash.	_____	_____	_____
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All hydraulic hoses shall conform to S.A.E. Standards (or greater) for designed pressure. Bends shall not be less than recommended by S.A.E. Standards. Flat spots in hoses will not be accepted.	_____	_____	_____
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The hydraulic oil reservoir shall have a minimum capacity of 60 gallons filled with 48 gallons of hydraulic fluid. The tank shall be complete with a screened fill pipe and cap. Filter breather, clean out cover, shut-off valve and oil level sight and temperature gauge. The hydraulic system shall be protected by a ten (10) micron return line filter along with a 100 mesh reusable oil strainer in the suction line. The hydraulic tank shall be pressurized.	_____	_____	_____
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Hydraulic body lift to lift body for working on top of transmission.	_____	_____	_____
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Hydraulics Continued:

The main control valve will be a six (6) section stack valve with relief to prevent overload damage
Valve capacity will be 50 GPM @ 2,500 PSI and designed to properly operate all hydraulic components.

Controls: An air or hydraulic single handle joystick control shall be provided for lift functions, if air system, air-filters must clean air before entering system.

Top door and tailgate with “Auto-Pack” push button/air, pack and eject controls shall be provided as standard.

Warning lights for “Arms Above Body”, “Top Door Closed”, and “Tailgate Unlatched” shall be provided.

The controls will be of the self-centering type returning to the neutral position when released.

The tailgate control shall be protected from spurious operation by:
Providing power only when System and Manual Pack are “On”.

A barrier that will block the operator’s finger unless he reaches around it.

Manual safety block will be installed to keep tailgate from opening.

Electrical: All electrical wiring connectors to be automotive double-seal, with wiring in split convoluted loom
All wiring connectors to be soldered or crimp type with shrink wrap covering. Unprotected wiring in any application is unacceptable.

Lighting: Clearance, backup, and directional lights will be Lexan lens, shock mounted in a protective housing.
The whole unit will be pop-out and replaceable.

All lights shall be provided in accordance with FMVSS #108, plus mid body turn signals on each side of the body and a center brake light on the rear.

<u>Description</u>	<u>Minimum Requirements</u>	<u>Yes</u>	<u>No</u>	<u>Exception</u>
Rear Under-Ride Guard:				
	Shall be installed as standard equipment to meet Federal Motor Carrier Safety Regulation (49CFR393.86).	_____	_____	_____
Painting:				
	The entire body shall be properly cleaned of all dirt, grease, and weld slag. Cleaning shall be in keeping with accepted industry practices. A high grade primer shall be applied, followed by a finish coat of high gloss acrylic enamel or better. Bid to include basic white unit with 2 tone paint scheme for cab and body striping. Colors and paint design to be determined upon award of bid.	_____	_____	_____
Miscellaneous:				
	Shall meet all D.O.T. and O.S.H.A. requirements.	_____	_____	_____
Delivery:				
	The bidder will be responsible for delivering the completed unit to the City of Helena. The bid will include all freight and delivery charges. The unit must be delivered within 180 days of placing the order. Prior service must not exceed 1000 miles or 100 hours since lube and oil change.	_____	_____	_____
Warranty:				
	One year on all parts and labor. Bidder is responsible for warranty on all components. Warranty work shall be performed in Helena. If warranty work is required outside of Helena, all transportation and repairs are the responsibility of the bidder. Warranty work must be completed within one week of turning vehicle over to bidder. If work is not completed within one week, bidder will be subject to a \$100/day penalty for each day beyond one week.	_____	_____	_____

SPECIFICATIONS AND PROPOSAL

September 26th, 2014

Intent:

This specification describes hydraulically actuated partial pack front loaders with container hoisting devices capable of handling 1-10 cubic yard containers with side pockets. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and dispensing the load by means of hydraulically ejecting the load from the body.

General Terms:

All equipment furnished under this contract shall be new, complete, unused, and the same as the manufacturer's current production model. Accessories not specifically mentioned herein, but necessary to furnish a complete unit ready for use, shall also be included. The unit shall conform to the best practice known to the body trade in design, quality of material and workmanship. Assemblies, sub-assemblies, and component parts shall be standard and interchangeable throughout the entire quantity of units, as specified in these Specifications and Proposal. The equipment furnished shall conform to ANSI Safety Standard Z245.1-1984.

Warranty:

One year warranty on all parts and labor with repairs to be completed in Helena. Two year guarantee on the main packing cylinder. The City mechanics will inspect the equipment after which all corrections will be promptly completed in Helena. All warranty work will be completed in Helena at no expense to the City.

Before equipment is accepted, the bidder shall train at least one employee for at least one day in the operation of equipment and shall train mechanics and servicemen in the regular repair, maintenance and service of the equipment. Furthermore, the bidder shall maintain a staff of qualified personnel available at all times during normal working hours to consult with the user, diagnose problems, and to advise their repair and maintenance.

Parts Manual:

Bidder shall furnish one (1) complete set of parts, wiring, service, operation, and owner's manual.

Parts:

Parts availability must be guaranteed for a minimum period of no less than four (4) years with one (1) week delivery.

Bidder shall furnish one (1) complete extra set of all filters (oil, air, hydraulics, etc.) with chassis.

Inspect:

The city reserves the right to inspect a completed unit prior to bid acceptance. The bidder may have to provide a complete, operable unit for demonstration on Solid Waste routes in the City of Helena.

BIDDERS STANDARDS

- A. All required lubricants shall be available from Montana Lubrication suppliers other than OEM dealers.
- B. Only standard (SAE) or metric bolts, nuts, etc. will be allowed (i.e. Whitworth is unacceptable).
- C. To ensure that the warranty provisions can be met, bids will only be accepted from vendors meeting the following requirements:
 - 1. The vendor must be factory authorized to sell and service the unit bid including all attachments, components, and/or accessories.
 - 2. The vendor must have an in-state sales/service facility that:
 - a. has a minimum of 2400 square feet of shop space.
 - b. employs a minimum of two full time factory qualified mechanics.
 - c. has a demonstrated service record for a minimum of twelve months prior to the bid opening date.

It is the intent of these provisions that the successful vendor be able to respond to required warranty work in a timely manner, from an in state location, with parts, special tools and trained personnel. The City therefore reserves the right to modify these requirements based on such factors as past service performance representing other franchises or manufacturers, an adequate size facility to have an inventory of repair parts and perform repair and service work and full-time mechanics certified to repair similar types of equipment.

- D. Manufacturer's statement of origin (MSO) must accompany each unit at the time of delivery.
- E. All bids are considered to be F.O.B., City of Helena Vehicle Maintenance Facility.

INVITATION TO BID – REQUEST FOR QUOTATION
STANDARD TERMS AND CONDITIONS

Competition

The City of Helena encourages free and open competition among bidders. Whenever possible, specifications, bid invitations and conditions are designed to accomplish this objective, consistent with the necessity to satisfy the City's needs and the accomplishment of a sound economical operation. The bidder's signature on this proposal guarantees that the prices quoted have been established without collusion with other eligible bidders and without effort to preclude the City of Helena from obtaining the lower possible competitive price. The award will be made to the lowest responsible bidder meeting specifications and all bid terms and conditions. The City of Helena has established a local preference procedure of awarding bids to the lowest responsible bidder who is a resident of Lewis and Clark County, Montana, and whose bid is not more than 3% higher than that of the lowest responsible bidder who is not a resident of Lewis and Clark County, Montana as defined in City of Helena Ordinance No. 2430. In all instances, Montana-made goods must be preferred for use in all projects if such goods are comparable in price and quality.

Preparation of Bids

Bids will be written in ink and/or typewritten on bid forms furnished herewith. Erasures and alternations must be initialed by the bidder in ink. Telegraphic bids will be accepted only if they fully comply with all other conditions in the Invitation to Bid. No verbal bids shall be accepted. Bid quotations will be firm for thirty days, unless otherwise stipulated by bidder.

Bid Items

The bidder warrants articles offered to conform to the specifications herein requested, to be fit and sufficient for the purpose manufactured, of good material and workmanship and free from defect.

Special Brands

Brand name items or descriptions used in this proposal are specified solely for the purpose of indicating standards of quality, performance and/or use desired. Any bid offering goods or sources which deviate from the specifications must be clearly indicated by the bidder, otherwise it will be considered that the bid is in strict compliance with all terms and conditions. Substitutions must be identified by manufacturer and stock number and complete descriptive literature must be included with the bid. Goods delivered which do not conform to the contract terms, conditions or specifications may be rejected and returned at the vendor's expense. Any bid for foreign produced products shall be so indicated and the source of supply noted for each item.

Packaging

No charges will be allowed for packing, wrapping, bags, containers, reels, etc., unless otherwise stipulated. All items shall be packed in accordance with prevailing commercial practices and in such a manner as to ensure delivery in good condition and as specified herein.

Contract Reference

The contract (Purchase Order) number shall be referred to on all invoices, packages, packing lists, shipping notices and any correspondence relating to the Purchase Order.

Delivery/Shipping

Goods shall be prepaid, F.O.B. destination. In the event the contract terms specify f.o.b. shipping point, shipping charges will be prepaid and itemized as a separate item on invoicing. Such shipments shall be via the least expensive common carrier unless otherwise stipulated. The City of Helena reserves the right to reject any C.O.D. delivery.

Cash Discount

Bidders may quote a cash discount, provided it is based on a period of twenty (20) days or more. A shorter period will not be considered in determination of a low bid. Any cash discounts as part of this contract will be computed from the date of receipt of a properly executed claim or the date of completion of delivery of all items in satisfactory condition, whichever is later.

Excise Taxes

The City of Helena is exempt from Federal Excise Taxes. Exemption certificates will be furnished upon request.

Samples

Samples of items must be furnished by the bidder if stipulated herein. Transportation costs, both to and from the Purchasing Division, will be assumed by the bidder. Each sample must be labeled with the bidder's name and the quotation and item numbers.

Acceptance/Rejection of Bids

The City of Helena reserves the right to accept or reject any or all bids, wholly or in part, to make awards in any manner deemed in the best interest of the City.

All or None Proposals

Bidders may submit alternate proposals on an "all-or-none" basis, but are requested to submit a primary quotation on an item-by-item basis to be considered for either type of award.

Bid Determination

Low bid shall be determined by the Base Bid less Cash Price or Trade-in for City of Helena equipment.

Tabulation

In the event that a quotation is entered in which the unit price and extension do not agree, the unit price shall prevail.

Non-Discrimination

In accordance with federal and state laws, the bidder agrees not to discriminate against any client, employee or applicant for employment or for services, because of race, creed, color, national origin, sex or age with regard to, but not limited to, the following: employment upgrading, demotion or transfer; recruitment or recruitment advertising; lay-offs or termination; rates of pay or other forms of compensation; selection for training; or rendition of services.

It is further understood that any vendor who is in violation of this clause shall be barred forthwith from receiving awards of any purchase from the City of Helena unless a satisfactory showing is made that discriminatory practices have ceased and the recurrence of such acts is unlikely.

Qualification of Bidders

Bidder shall not be eligible for the award of any contract if not deemed a responsible bidder as defined by City of Helena Ordinance No. 2244 relative to delinquent City of Helena taxes.

Attention of bidder is directed to the City of Helena Ordinance No. 2188 relative to requirement of General Business License for contractors transacting business within the City of Helena limits. Proof of business license may be required before award of bid.

CITY OF HELENA
REQUEST FOR QUOTATION

ONE (1) NEW 2014 OR 2015 TANDEM AXLE, TILT CAB, 66,000 G.V.W. CHASSIS AND ONE (1) NEW 2014 OR 2015 40 CUBIC YARD FRONT LOADING REFUSE COMPACTOR BODY

BIDDER MUST USE THIS FORM ONLY IN SUBMITTING PRICES

VENDOR _____

THIS IS NOT AN ORDER
October 15th, 2014

RETURN BIDS TO: City Clerk, City of Helena, City-County Administration Building, Room 322,
316 North Park Avenue, Helena, MT 59623.

Sealed bids will be received by the undersigned up to 2:30 p.m. local time on **October 15th, 2014** to
be then publicly opened in the offices of the City Clerk.

REQUEST FOR QUOTE ISSUED BY: Director of Public Works

ONE (1) NEW 2014 OR 2015 TANDEM AXLE, TILT CAB, 66,000 G.V.W. CHASSIS AND ONE (1) NEW 2014 OR 2015 40 CUBIC YARD FRONT LOADING REFUSE COMPACTOR BODY

Proposal dated **September 26th, 2014**

BASE BID \$ _____

TRADE IN \$ _____

(2003 Sterling
Condor Front
Loading Truck)

Unit #208 – Vin # 49HHBVBS63RM07456

TOTAL \$ _____

This Section must be completed in full and signed: Date: _____

Delivery Date: _____

Company Name: _____

Terms: _____

By: _____

(Signature - Authorized Representative)

Telephone Number _____