City of Conway - Mayor's Office
1201 Oak Street
Conway, AR 72032
www.cityofconway.org

Invitation and Bid - 2009-12

INVITATION
TO THE VENDOR ADDRESSED:

Bidders are invited to furnish the items listed herein in accordance with the terms and conditions attached. **Sealed** bids must be in Office of the Mayor no later than **10 am, Friday, February 13th, 2009** at which time all bids will be opened and read in the Downstairs Conference Room in City Hall. Successful bidders will receive purchase order, if necessary **within 30 days after the City Council approval.** ***Unsigned bids will be rejected.***

City of Conway Sanitation Department
High Compaction Automated Refuse Collection Truck

You are invited to submit a bid to supply the Goods and/or Services specified above. Bids must be made in accordance with the Forms and Instructions.

INTENT:

This specification describes a hydraulically actuated packer body with a mechanical lifting device capable of handling 30 to 300 gallon refuse containers. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and fully ejecting the load by means of hydraulics from the body. The manufacturer shall have produced automated refuse collection equipment for a period of at least ten (10) years.

The awarded bidder must deliver complete ready-to-use units within 120 days of receipt of notice via a City of Conway issued Purchase Order. Failure to deliver completed units within the prescribed time frame may lead to the City of Conway assessing penalties not to exceed $250.00/day for each day past 120 days from date of Purchase Order issuance. The assessment of this penalty is at the discretion of the Mayor, Director of Sanitation or the City Council of the City of Conway.

GENERAL TERMS:

The manufacturer of all equipment provided shall be ISO 9001 certified. All equipment furnished shall be new, unused and the same as the manufacturer's current production model. Accessories not specifically mentioned herein, but necessary to furnish complete unit ready for use, shall also be included. 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 this invitation to bid. The equipment furnished shall conform to ANSI Safety Standard Z245.1-1999 and shall be manufactured in the U.S.A.

Quantity: One (1) complete unit

Warranty:

- Length of body warranty against **all** defective parts shall be two (2) years minimum.
- Length of unlimited warranty on hydraulic system including pump and cylinders shall be three (3) years minimum.
- Length of warranty of chassis and components shall be three (3) years or 36,000 miles minimum.
- Warranties shall be parts and labor inclusive.
- Any and all warranty work shall be performed by the successful bidder or their contracted service provider.
- Vehicles taken out of service for the performance of warranty work and not returned within 72 hours of removal from duties may cause the warranty holder to be subjected to penalties up to $500.00/day beginning after the 72 hour grace period or provide an adequate replacement vehicle for the entirety of time the vehicle will be out of service. This penalty shall be assessed at the discretion of the City of Conway Mayor, Director of Sanitation, or Conway City Council.
- Upon written request, the awarded bidder may utilize the City of Conway Sanitation Mechanic Shop to perform minor warranty work for the shop labor fee of $75.00/hr. If utilizing the City of Conway Sanitation Mechanic Shop the awarded bidder shall provide **any and all parts needed to perform task(s)** as well as **detailed instructions** for work to be performed and **allotted time frame** to complete task(s).
- **Awarded bidder must have well established service location(s) capable of stocking parts for both chassis and body within 60 miles of Conway, AR.** Bids from entities that do not meet established criteria will not be considered.

PARTS MANUAL:

Bidder shall furnish complete parts, maintenance, and operator's manual with each body sold.

BID QUOTATION:

Bidder shall complete every space in the specification bidder's proposal column with a check mark to indicate if the item being bid is exactly as specified. If not, column must be labeled NOT OFFERED and a detailed description of the deviation from the specification supplied. Additional pages may be used if necessary.

BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING.

IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.

YES / NOT OFFERED

CAPACITY

The packer body shall have a capacity, including the hopper, of not less than: 32 yards _____

The hopper shall have a minimum capacity of three (3) cubic yards. _____

The structural integrity of the body shall allow high density loading of up to 1,000 pounds per cubic yard of normal refuse. _____

BODY DIMENSIONS

Maximum outside width shall be 96". _____

Maximum overall length of the body, tailgate and loader assembly combined shall not exceed the following: _____

32 yd³ - 284" _____

Inside body width shall be no greater than 90.5". _____

Inside body height shall be no greater than 81". _____

Outside body height above chassis shall be no greater than 98". _____

Hopper bottom width shall be a minimum of 80.2". _____

Hopper length shall be no greater than 69.5". _____

Hopper depth on the curbside, with rubber flap, shall be no greater than 68". _____

Hopper depth on the street side shall be no greater than 75". _____

BODY CONSTRUCTION

The body interior shall have a smooth flat floor without a trough. The sides and roof shall be smooth curved construction. All materials shall be steel unless otherwise specified. _____

In order to prevent damage from corrosion and fire, no hydraulic cylinders, valve or other hydraulic components shall come in contact with refuse packed into the body. _____

Body sides and roof shall be of curved stress skin construction interfacing with the corner mainframe bolsters. All sidewall and roof members shall be continuous welded. _____

Floor shall be flat full width and shall not have inboard guide rails or a trough. The floor shall be a minimum 3/16" x 150,000 PSI minimum yield, 321 BHN steel and shall be reinforced with one piece full width and interlaced 3" x 6" x 10 ga., 80,000 PSI minimum, yield channels nominally located on 18" centers so as to withstand continuous operation at maximum imposed loads without harmful deformation or excessive wear. _____

Body roof shall be minimum 8 gauge, 80,000 PSI minimum, yield hi-tensile steel sheet fully welded to a full length inner 8 ga. and 11 ga. outer, 80,000 PSI minimum yield roof crown rail to contain and dissipate forces equally through the body structure. _____

Front and rear lateral roof bow shall be 2” x 8” x 3/16”, A500, Gr. B, 46,000 PSI minimum yield.

Body sides shall be a minimum 8 gauge, 80,000 PSI minimum yield hi-tensile steel sheet fully welded to a roof crown rail and to the 4.7” x 18” floor skirt rail. _____

Rear mainframe body side bolsters shall be a minimum of 3” x 20” at the mid span section and 5” x 20” at the major upper and lower connecting points of the mainframe. The bolsters shall be contour shaped to the sidewall and formed from minimum, 7 ga.80,000PSI minimum yield steel. The front mainframe body side bolsters shall be a minimum of 3.7” x 8.6” at the mid span section and 5” x 8.6” at the major upper and lower connecting points of the mainframe. The bolsters shall be contour shaped to the sidewall and formed from minimum 8 ga. x 80,000 PSI minimum yield steel. The reinforcement bolsters shall be fully welded to the curved body side sheets. _____

Floor longitudinal long members shall be formed trapezoidal shape 9.6” x 11” with a 3.3” base sill of 7 ga., 80,000 PSI minimum yield formed channels. _____

Packer panel guide rail bottom edge shall be located 3.7” above longitudinal floor corners and integral to body floor sheets. The guide rail channel shall have interior dimensions of 3.5” x 4.2”. The top flange of the guide rail channel shall be reinforced with a 45˚ plate, which shall also serve as a self cleaning device. _____

HOPPER CONSTRUCTION

Hopper shall be of flat floor and straight vertical sidewalls. Hopper shall be designed to properly handle thirty (30) gallon through three hundred (300) gallon automated side loader carts or tubs. _____

Hopper long members shall be formed trapezoidal shape 9.6” x 11” x 3.3” base sill of 7 ga., 80,000 PSI minimum yield formed steel channels. _____

Hopper floor shall be constructed of a minimum 1/4", 321 BHN, 150,000 PSI minimum yield steel sheet. _____

Upper hopper sides shall be constructed of a minimum 3/16”, 321 BHN, 150,000 PSI minimum yield steel sheet. _____

Lower hopper sides shall be constructed of a minimum 3/16”, 321 BHN, 150,000 PSI minimum yield steel sheet. _____

A hopper sump shall be provided in forward floor area of the hopper. Sump shall have a 40 gallon minimum capacity and have dual clean-out doors with seals on each side of the body. Doors shall be 7”x15” at a minimum. _____

An access door opening no larger than 26.7” wide x 38.2” high shall be provided on hopper left hand side wall. Steps and grab handles shall be provided to ease entry. _____

The curb side hopper wall shall be equipped with a replaceable rubber flap. The flap shall be constructed of 3 ply cord reinforced, neoprene rubber and shall extend upward at least 5”.

_____

PACKING MECHANISM

A hydraulically actuated packer traversing a minimum of 60”, while packing, shall clear the hopper of material with a maximum cycle time of fourteen (14) seconds. A proximity switch will automatically reverse the packing cycle and return the packing panel to the front head. An automatic back-up reversing means shall be provided should the packing panel be unable to reach the rearmost packing position of 60”. _____

The packing panel face shall be constructed of a minimum 1/4”, 80,000 PSI minimum yield abrasion resistant steel plate. _____

A spill shield, fabricated from 7 ga., 50,000 PSI minimum yield steel shall be affixed to the top of the packing panel. _____

The packer panel shall be reinforced with a combination of structural members for maximum rigidity. _____

Hopper zone guide rails (2) in the side of the body shall be comprised of a 1/4”, 50,000 PSI minimum yield formed angle welded to 3.5” x 3.5” x 5/16” ASTM A500 tubing on each side of body. The tubing shall run the full interior length of the hopper and extend 28” into the body. _____

Hopper zone guide rails shall be clad on each side in the following manner: _____

Top clad wear bar, 1/4” thick x 2-1/2” wide, 145,000 PSI minimum yield, AR STAR-BAR steel. _____

Side clad wear bar, 1/4” thick x 2-1/2” wide, 145,000 PSI minimum yield, AR STAR-BAR steel. _____

Bottom clad wear bar, 1/4” thick x 2-1/2” wide, 145,000 PSI minimum yield, AR STAR-BAR steel. _____

The guide perch on each side of the packer panel shall be 3” x 6” x 1/4" ASTM A500 Grade B structural tubing clad in the following manner: _____

Top clad wear bars (2), 1/4" thick x 2” wide x 35” long, 145,000 PSI minimum yield, AR STAR-BAR steel. _____

Side clad wear bars (2), 1/4” thick x 2” wide x 35” long, 145,000 PSI minimum yield, AR STAR-BAR steel. _____

Bottom clad wear bars (2) located each side below the structural tubing shall be 3/8” thick x 3-1/2” wide x 35” long, 145,000 PSI minimum yield, AR STAR-BAR steel. _____

The packer panel shall be provided with bolt-on lugs for each of the two (2) packing cylinders. The cylinders shall be attached to the packer panel lugs via 2” diameter pins. Cylinder removal may be accomplished by either pulling the pins or removing the entire bolt-on lugs. The lugs shall be attached to the packing panel with six (6) 3/4" diameter bolts for each lug assembly _____

The body front head shall also be provided with bolt-on lugs for packing cylinders. The lugs shall retain each cylinder pin with six (6) 3/4” diameter bolts.

_____

The packer will be hydraulically actuated by two (2) double acting multi-stage cylinders having chrome plated tubes, and shall have grease-less spherical bearings on both ends. _____

32 yd³ - 5-1/2”x4-1/2”x3-1/2” bore x 151” stroke

Packing force shall be a minimum of 83,000 pounds. Cylinder force shall be a minimum of 118,000 pounds. _____

The packer shall be designed to allow dumping of a container regardless of the position of the packing panel during the compaction cycle. _____

“Extend” and “Retract” push buttons shall give the operator complete control of packer panel movements in either direction. _____

An emergency on/off button shall be provided to stop packer panel movement during extend or retract cycles. _____

The packing mechanism shall be capable of extending to the rearmost end of the body, past full pack position, to provide off-loading function while the tailgate is raised. _____

BUSTLE TAILGATE

The 5.3 cubic yard tailgate must be one piece top hinged, and shall open approximately 30º above horizontal. _____

Tailgate shall be constructed of a minimum 10 gauge, 80,000 PSI minimum yield on rear and side walls. _____

The tailgate shall be reinforced by a minimum 10 gauge, 80,000 PSI minimum yield horizontal boxed brace. _____

The tailgate will be secured to the body by two (2) sets of hinges with 2” greaseable hinge pins at the roof line. _____

A heavy duty rear door positive seal of rubberized gasket material shall be installed the full length of the bottom and 60” up sides of tailgate to prevent leakage. _____

The tailgate shall be raised and lowered hydraulically actuated by two (2) double acting cylinders with a minimum 3” bore x 35-1/4” stroke x 1-1/2” diameter chrome plated rod. Cylinder design shall include an orifice fitting in the base port, which shall prevent rapid descent of the tailgate in the event of a hydraulic failure. _____

The tailgate shall be locked by two (2) cylinders having a minimum 3” bore x 1-1/2” diameter hardened chrome plated rod x 3.62” stroke. The lock and tailgate cylinders shall be actuated by separate controls in the cab. _____

LIFTING MECHANISM

The lift base shall support the lift arm, the dump arm, the level pivot, the level link, the pivot link, and the reach link. The lift base shall rest atop the chassis frame rails for superior vertical distribution of loads induced into the chassis frame rails. Lift mechanisms mounted alongside the chassis frame will not be accepted. The lift base shall consist of a 1/2" x 16” x 61”, 50,000 PSI minimum yield, surface plate for chassis frame mounting and shall be reinforced by four (4) vertical ribs for rigidity and arm pivot placement. The ribs shall utilize 3/4" x 6-1/2”, 50,000 PSI minimum yield steel. The base shall be mounted to the chassis frame rails by a minimum of eight (8) 3/4", Gr. 8 studs. The front-to-rear mounting length shall not exceed 18”. _____

The lift arm shall be a 4-1/2” x 9-1/2” fabricated tube structure and 4” x 6” structural tube to serve as support for the dump arm. _____

The dump arm shall support the appropriate grabbers determined by local demands. The two (2) dump arm grabber _____

shafts shall be of splined and tapered design manufactured from Astralloy –V for positive, superior strength, fit and alignment. The 2-1/2" diameter morse taper shall permit precise alignment and security for the grabber crank flanges. The 2-1/2" wide x 8" pitch diameter quadrant gears shall sleeve onto the 2" diameter x 19 tooth splines. The gears shall be manufactured of SAE8620 carburized and hardened RC50 steel. The splined shaft shall be straddle mounted within the gear case on 2" spherical bearing, sealed for lubricant via 3" diameter shaft lip seals. The dump arm shall contain a sealed gear case filled with a full bath lubricant for the shaft and gears at all times. The lubricant shall be EP 80-90 rating.

The level pivot shall be a fabricated channel with a 4.7" web x 8.2" flanges x .25", 50,000 PSI minimum yield steel. _____

The level link shall be a 1.5" x 3" x 0.188" structural tube machined at each end for steel spherical greaseless bearings and two (2) 1.5" x 4" CR1018-NOM32RMS pins. _____

The pivot link shall be a 3" x 3" x 0.375" structural tube machined for a greaseless Connex steel bushing of AISI 615C on the top end, and a 2" spherical greaseless bearing on the bottom end. The Connex bearing shall be sealed by a Garlock 9220, "U-cup" 90 durometer urethane seal. Both ends shall be supported by two (2) 2" x 3-1/2" TGP1045RC55-NOM24RMS chrome pins. _____

The reach link shall consist of two (2) parallel 3" x 5" x 3/8" structural tubes linked midspan and properly lined bored each end for four (4) greaseable Connex bushings of AISI 615C, enclosed on both ends by Garlock 9220 "U-cup" 90 durometer urethane seals, and supported by one (1) 3 "x 14.5" TGP1045RC55-NOM24RMS upper chrome pin and one (1) 3" x 13.4" TGP1045RC55-NOM24RMS lower chrome pin. _____

The lifting mechanism shall be capable of lifting containers of at least 1,000 lbs. from complete retraction and ranging from 30-300 gallons at level container placement, and shall be capable of extending, grabbing, raising, dumping, and returning a container from any position without the need to "retract" the lift arm and shall perform the following lift cycle functions in six (6) to eight (8) seconds at engine idle as follows.

Reach to container _____
Grab the container _____
Lift the container to the full dump position _____
Lower the container to the full down position _____
Release the grabbers from the container _____
Return to stow _____

The lifting capacity shall be powered by three (3) hydraulic cylinders with variable progressive 3" cushions at each end of the stroke of the following functions and cylinder descriptions.

Reach (extend-retract)(in-out): 3.14" bore x 1.57" rod x 16" stroke
Grab (grip-release): 3.14" bore x 1.57" rod x 8" stroke _____
Lift (up-down)(raise-lower): 3.14" bore x 1.57" rod x 16" stroke. _____

All cylinders shall have hardened and chrome plated rods. The reach and lift circuits shall possess full flow ascent valves with controlled flow descent feature. Control valves shall be direct acting feather-able air operated. _____

The lift mechanism shall traverse the container from the point of engagement to the elevated and rotated position of discharge through a compound elliptical curve devoid of abrupt directional changes and high G (gravity) forces to preserve container structural integrity and greatly reduce container maintenance. _____

The lift controls shall be a combination of electric or air over hydraulic and located in the cab convenient to the operator. _____

The reach and lift shall be direct air over hydraulic for the x-x axis and y-y functions to be controlled by appropriate movement of a joystick and by button/switch control. Control levers are not acceptable. Remote buttons/switches must also be located on or under RH seat so the unit may be easily operated from ground level without entering into cab. _____

The grabber functions shall be electric over air over hydraulic and shall be controlled by thumb switches on the upper portion of the joystick and by buttons/switches located in cab convenient to the operator. _____

The lift controls shall be self-centering type, returning to the neutral position when released. Operating the lift controls while packing shall not interfere with the packer operation. These controls shall direct oil flow through a three (3) section "on-command" valve. _____

The lift structure and cylinders shall not utilize electrical harness or hardware. All peripherical connections shall be hydraulic only. _____

HYDRAULICS

The maximum operating pressures shall be 2500 PSI. _____

The hydraulic system shall operate at an acceptable temperature without the need for external hydraulic oil cooling devices. _____

The hydraulic pump shall be a conventional tandem vane, front mounted pump designed to *operate-in-gear-at-idle,* producing 41 GPM at 700 RPM operating speed. _____

The chassis shall include a minimum 160 AMP Alternator _____

Chassis engine shall have 450 Minimum Torque at idle _____

All hydraulic tubes will be securely clamped to prevent vibration, abrasion, and excessive noise. _____

All hydraulic hoses shall conform to SAE standards for designed pressure. Bending radius shall exceed SAE standards to permit bend radius one half that of the SAE standards. This requirement shall prevent flat spots in the hoses. _____

The hydraulic reservoir shall have a 50 gallon gross capacity and a net capacity of 45 gallons. _____

The tank shall be complete with a screened fill pipe and cap, filter breather, clean out cover, and oil level sight and temperature gauge. _____

The hydraulic system shall be protected by a six (6) micron, in tank, return line filter along with a 100 mesh (140 micron) reusable oil strainer in the suction line. _____

The return line filter shall also include an in-cab filter by-pass monitor, which shall alert the operator or service personnel when the filter is in need of replacement. _____

A hydraulic pump shut down system shall also be included, which shall prohibit prolonged operation of the hydraulics when the filter is in the by-pass mode. _____

Quick disconnect fittings shall be provided so that a pressure gauge can be easily connected without the use of tools or the need to remove hydraulic fittings. _____

LUBRICATION

All body hinges, cylinder rod ends, cylinder base trunnions and high cycle pivot points shall be supplied with grease fittings and well marked as to location and proper intervals of service needs. _____

CONTROLS

The lift controls shall be air over hydraulic and located in the RH side of cab convenient to the operator as well as a remote location on or under or beside the RH seat to allow operator to control arm and packer from the ground without entering cab. _____

The lift controls shall be of joystick and individual button/switch design. The joystick and individual switches/buttons shall be properly labeled to indicate the direction of travel. <u>Control levers are not acceptable.</u> _____

The lift controls shall be self centering type, returning to neutral position when released. Operating the lift controls while packing must reverse and return the packer to the start position. _____

_____

Selectable auto-dump and auto-stow shall be provided. _____

The packer button controls shall be electrical over hydraulic and located in the cab convenient to the operator. Separate push buttons shall be provided for “Pack” and “Retract” to provide complete packer panel movement control in either direction. Pushing the “Pack” button shall automatically extend and retract the packer panel for a complete cycle. _____

Tailgate raise and tailgate lock controls shall be electric over hydraulic. Toggle switches / buttons shall be used to control each function individually. _____

ELECTRICAL

A PLC (Programmable Logic Controller) electronic control center shall be provided to monitor system functions. The PLC shall be installed inside the truck cab and shall possess self diagnosing error codes which identify the trouble source. Both audio and LED outputs must be made available to aid in locating trouble source. _____

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

All switches not manually operated shall be proximity in type. Mechanical switches are not acceptable. _____

A control panel light shall be provided to warn the driver/operator any time the lift is not fully stowed. _____

LIGHTING

Clearance, back up, and directional lights shall be Lexan lens, shock mounted in a protective housing. The entire unit shall be flush mount, replaceable pop out style. _____

All lights shall be provided in accordance with FMVSS #108 and ANSI 245.1-1999, plus mid body turn signals on each side of the body and a center brake light on the rear.

Cameras

The unit shall be equipped with no less than three (3) third eye cameras. One shall be placed as a backup camera, one placed for a view of the container into gripper and one with views into hopper. The monitor shall be 7" LCD color display mounted in such a manner to withstand shock and not be in the line of sight of operator while driving vehicle but still convenient to use.

_____

REAR UNDERRIDE AND TIRE GUARD

The body shall be equipped with a rear under-ride guard as standard equipment to meet Federal Motor Carrier Safety Regulation 49CFR393.86, TTMA RP No. 41-02, and SAE J682 Oct84. _____

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 liberal coat of polyurethane primer Imron 5000 shall be applied. _____

Two (2) finish coats of Dupont Green 546 and one (1) finish coat of polyurethane paint Imron 5000 shall be applied and baked. _____

II. CHASSIS

VEHICLE CONFIGURATION

Low cab forward chassis _____

RH steering location _____

ENGINE & ENGINE EQUIPMENT

350 HP @ 1600 RPM 1250 lb/ft @ 1400 RPM /2100 GOV RPM _____

Engine mounted oil check & fill _____

Donaldson two stage high capacity air cleaner _____

12 volt neg. _____

Three (3) Alliance 1231 GRP31 12v MF 3300 CCA threaded stud batteries _____

Battery shut-off switch with lock provision _____

18.7 CFM compressor _____

Electric engine integral shutdown protection system _____

Single vertical exhaust w/painted stack RH _____

Single vertical muffler _____

Chrome exhaust rain cap _____

1500 sq-in copper/brass radiator _____

Steel lower radiator and oil pan guards _____

1410 Adapter flange for front PTO provision _____

1000 Watt/115 Volt block heater _____

Air intake warmer _____

Delco 12V 42MT 400 series starter _____

TRANSMISSION & EQUIPMENT

Allison 4500 RDS 6-Speed automatic transmission includes 10-bolt PTO mounting pad on RH side with internal oil filter, integral oil cooler in radiator. Allison Refuse GRP.77,PKG. 152 (AK) program _____

RH push button, electronic shift control, engine tunnel mounted _____

Water to oil transmission cooler _____

Transmission oil check and fill with electronic oil level check _____

Vehicle interface wiring for refuse body builder connector, back of cab _____

Magnetic plugs, engine drain, transmission drain, axles fill & drain _____

FRONT AXLE & EQUIPMENT

Meritor 16.5x6 Q+ cast spider cam front brakes; 20,000 lbs. capacity; axle designed to take high pressure typically associated with heavy refuse, snow plow applications. _____

Air operated brakes shall have automatic slack adjusters 24" brake chambers with stroke indicators; ABS wheel end sensors. _____

Front brake dust shields _____

Chicago Rawhide front oil seals _____

Vickers V-20 Power steering pump w/4 quart reservoir TRW TAS-65 power steering w/RCS65 Aux. Gear _____

FRONT SUSPENSION

20,000 LB. Flat leaf front suspension _____

Front shock absorbers _____

Graphite bronze bushings w/seals – front suspension _____

REAR AXLE & EQUIPMENT

Meritor RT-46-160P R-Series tandem rear axle @ 46,000 lbs. (or equal) _____

4.89 Axle ratio _____

17N Meritor main driveline with full round yokes _____

17N Meritor interaxle driveline with full round yokes _____

Driver controlled traction differential – both tandem rear axles _____

Interaxle and/or differential lockout with indicator light _____

Castrol Transynd synthetic automatic transmission oil _____

Meritor 16.5 x 7 Q+ cast Spider cam rear brakes, double anchor, fabricated shoes _____

Rear brake dust shields _____

Chicago Rawhide Scotseal rear oil seals _____

Haldex longstroke 2-drive axle spring parking chambers _____

Haldex automatic rear slack adjusters _____

REAR SUSPENSION

Hendrickson Haulmax 46,000 lb. rear spring suspension (or equal) _____

52” Axle spacing _____

Fore/Aft and transverse control rods _____

Rear shock absorbers – two axles (tandem) _____

BRAKE SYSTEM

Wabco 4S/4M ABS without traction control enhancement _____

Haldex longstroke front brake chambers _____

BW AD-9 Brake line air dryer with heater _____

Pull cables on all air reservoirs

_____

WHEELBASE & FRAME

210” wheelbase _____

11/32” x 3-1/2” x 10-15/16” Steel frame; 110,000 PSI _____

¼” C-Channel inner frame reinforcement _____

75” Rear frame overhang _____

CHASSIS EQUIPMENT _____

8” Painted steel bumper HD ¼” _____

FUEL TANKS

80 Gallon aluminum LH fuel tank _____

Magnetic drain plug _____

Alliance fuel filter/water separator _____

TIRES _____

Michelin XZY-2S 315/80R22.5 20-Ply Radial front tires (or equal) _____

Michelin XDE M/S 11R22.5 14-Ply Radial rear tires (or equal) _____

WHEELS _____

22.5x9.00 10-hub pilot 5.25 inset 5-hand steel disc front wheels _____

22.5x8.25 10-hub pilot 2-hand steel disc rear wheels _____

CAB EXTERIOR _____

Cab forward aluminum cab _____

RH Cab door with 70 degree door strap _____

LH Cab door with 70 degree door strap _____

Rubber cab mounts _____

Hydraulic cab tilt mechanism with manual pump _____

Interior and exterior grab handles for cab access on RH driver and LH passenger sides _____

Two grab handles mounted on front of cab below windshield _____

Air horn, single base, two trumpet _____

Single electric horn _____

Halogen headlights _____

Five amber marker lights _____

Dual bright heated West Coast mirrors with LH/RH remote _____

8” Convex heated mirrors _____

RH & LH electric powered windows _____

All tinted glass _____

CAB INTERIOR

Standard interior _____
2 ½ lb Fire extinguisher _____
First Aid kit, mounted behind driver on cab back wall _____
Heater, defroster, and air conditioner _____
Cab insulation with additional noise/thermal treatment _____
Auto self-reset circuit breakers and fuses _____
Triangular reflectors without flares _____
Mid-back air ride with active air lumbar support driver seat _____
Mid-back air ride with active air lumbar support passenger seat _____
Cloth driver's seat cover _____
Cloth passenger seat cover _____
Three point seatbelts _____
RH Adjustable steering column _____
RH two spoke 18" steering wheel

AM/FM/WB radio w/ 2 speakers mounted overhead

_____

INSTRUMENTS & CONTROLS

RH Integral gauges mounted in instrument panel cluster _____
Low air pressure light and buzzer _____
Primary and secondary air pressure gauges _____
Air restriction gauge _____
Integrated speedometer message center LCD display, data linked _____
Diagnostic interface connector, 6-pin, SAE J1587/1708, located below dash _____
Electric fuel level gauges for left-hand and right-hand drive _____
Programmable PRM control with preset fast idle _____
Engine coolant temperature gauges for RH drive _____
Transmission oil temperature gauges for RH drive _____
Trip hour meter integral with speedometer message center _____
Engine oil pressure gauges for RH drive _____
AM/FM/WB Radio; roof/overhead console mounted _____
Electronic MPH speedometers with secondary KPH scale, without odometer _____
Electronic tachometers _____
Ignition switch controlled engine stop _____
Voltmeters, for RH drive _____

COLOR

Paint: a minimum of two (2) baked coats of N0472HN - Bengal Tan Imron 5000; a minimum of two (2) finish coats of polyurethane paint Imron 5000 shall be applied.

The chassis frame shall be black high solids polyurethane.

_____

Trade In

Bidder shall make allowance for the trade in of one (1) 2003
Mack LE Serial # 1M2AC08C9YM009560/McNeilius Model # 2883
Serial # 120MX288316666 automated side loader.

(List trade in allowance)

The City of Conway reserves the right to refuse or accept any and/or all allowances given with regards to trade in allowance of the afore mentioned vehicle. All bids received that do not include an allowance for the trade in will be considered invalid.)

City of Conway

BID SPECIFICATIONS

IF NOT IN COMPLIANCE, STATE SPECIFICALLY ITEM BEING OFFERED EITHER BELOW OR ON A SEPARATE SHEET.

Bid Specifications can be obtained at www.cityofconway.org

****Please be sure to mark envelope:**
Bid Number 2009-12
Bid Opening Date: Friday, February 13th, 2009

City of Conway Sanitation Department
Residential Refuse Truck
Bid Number: 2009-12
Bid Opening Date: Friday, February 13th, 2009
City Hall - Downstairs Conference Room

Bid Amount

High Compaction Automated Refuse Collection Truck $_____

Trade In Allowance (if applicable) $_____

Total amount of bid: $_____

Unsigned bids will be rejected:

Authorized Agent Bidding on this project:

_____
Company Name

_____
Company Representative Name

_____
Representative's Signature

_____
Address Email Address

_____
City State Zip

_____
Telephone Number Fax Number

_____
Date

Please feel free to submit additional information on this bid on a separate piece of paper; however this sheet should be included & signed with any bid submitted.

City of Conway
TERMS AND CONDITIONS

Important – Read Carefully

By Submission of bid, bidder certifies that he has read all terms and conditions and that bid is submitted in accordance therewith.

1. Prices quoted will be considered to be net prices unless otherwise stated by the bidder. Cash discounts requiring payments in less than 30 days will not be considered in making awards.

2. Prices quoted shall be FOB Conway unless otherwise specifically stated on proposal. In either case, delivery charges must be prepaid.

3. All fees and taxes shall be included in prices quoted.

4. Bidder certifies that he will make delivery of items for which he bids within 10 days after receipt of award – unless otherwise specifically stated. Time of delivery in excess of 10 days may be considered a factor in making awards.

5. In case of default of contractor in making deliveries as per contract, the City may procure the articles or services from other sources and hold the contractor responsible for all excess costs occasioned thereby. Bidder's record as to satisfactory performance under previous contracts will be considered a factor in making awards and retention on bid lists.

6. The City reserves the right to reject any or all bids, in part or in whole and to waive information in bids received.

7. If not otherwise specified, bidder must furnish brand names with catalog number, if any, on items which are offered as "equal." In all such cases the burden of establishing equality is upon the bidder and failure to do so within a reasonable time may result in rejection. Alternative bids will not be considered unless no other type bid for the item is received.

8. In the case of equal or tie bids, preference will be given to Arkansas bidders. Other than as stated in the first sentence, awards on tie bids will be made at the discretion of the purchasing official. In such cases, "splitting" will be avoided and awards of previous contract(s) to one or more of the bidders will not be a factor.

9. In the event that bidder is unable to furnish all of an item, bids on portions thereof may be considered.

10. Final inspections and acceptance or rejection will be made after delivery. Items rejected because of non-conformance shall be removed and replaced immediately with those which meet specifications, all at the expense of the contractor. In the event that necessity requires the use of non-conforming items, payment therefore will be made at a proper reduction in price which shall be not greater than contractor's actual cost by purchase, fabrication, manufacture or other production method plus transportation paid to carriers. All costs in connection with testing items that do not meet specifications shall be paid by contractor.

11. Quality, time of performance, probability of performance, and location of bidder will be factors in awards of all contracts.

12. The City reserves the right to purchase any, all or none of the items listed, in combinations thereof that may be in the best interest of the City of Conway.

13. The City reserves the right to change any specifications, terms and/or conditions at any time, with adequate notice in writing to bid invitees of those changes, if any.

14. The City is qualified for "GSA" pricing schedules, if available and applicable.

15. The City reserves the right to waive any informalities or minor defects, but this shall not be construed to indicate waiver of any specification, term and/or condition unless in the best interest of the City in the judgment of the City.

16. **CONSTRUCTION/INSTALLATION:** Any construction work that is worth $20,000 or more must comply with Arkansas Code Annotated § 22-9-204.

17. **PROHIBITED INTEREST CONDITION:** No official of the City authorized on behalf of the City to specify, plan, design, negotiate, make, accept or approve, or take part in specifying, planning, negotiating, making, accepting or approving any construction or material purchase contract or any subcontract in connection with any purchase made by the City of Conway shall become directly or indirectly interested personally in the purchase in the purchase or any part thereof.

18. **EQUAL OPPORTUNITY IN EMPLOYMENT:** All qualified bidders will receive consideration without regard to race, color, religion, sex, age, disability or national origin.