City of Auburn
Home of Auburn University

October 15, 2008

INVITATION TO BID

Sealed bids will be received by the City of Auburn, until 10:30 a.m. local time, on Wednesday, November 5, 2008 in the Office of the City Manager, 144 Tichenor Avenue, Auburn, Alabama, and then publicly opened and read for furnishing the following:

2009 Truck Cab and Chassis with Automated Side Loading Refuse Collection Body

Bid specifications are attached. The City is requiring bid prices on one (1) 2009 Truck Cab and Chassis with Automated Side Loading Refuse Collection Body. Please direct any questions to Sandy Leonard (334) 501-3097. Bids must be submitted on the attached form within a sealed envelope addressed:

Purchasing Officer, City of Auburn
144 Tichenor Avenue
Auburn, Alabama 36830

Envelope must be plainly marked on the outside as follows:

BID:	2009 Truck Cab and Chassis with Automated Side Loading Refuse Collection Body
OPENING:	10:30 a.m., local time
DATE:	Wednesday, November 5, 2008

The City of Auburn reserves the right, as the best interest of the city may require, to award the purchase contract from any of the bids, to reject any or all bids, and to waive any informalities in bids received. Bid will be good for ninety (90) days after being opened by the City of Auburn, Alabama. The City reserves the right to revert to the State of Alabama Contract if the bid price is higher than the contracted amount through the State.

The successful bidder is responsible for acquiring the appropriate business licenses and permits to conduct work with the City of Auburn. In addition to the business license and permit requirements, the bidder is required to remit all applicable sales and use tax, occupational license fees, and contractors/subcontractors license fee in accordance with City ordinances and codes.

When the bid is awarded, the successful vendor will required to provide certificates of the insurance showing the vendor carries, or has in force, automobile liability insurance, general liability insurance, umbrella or excess liability insurance and workers' compensation insurance. Limits of liability for automobile liability insurance shall be, at minimum, $1,000,000 combined single limit. Limits of liability for general liability insurance shall be, at a minimum, $1,000,000 per occurrence, $1,000,000 personal and advertising injury, $1,000,000 general aggregate and $1,000,000 products/completed operations aggregate. Limits of liability for umbrella or excess liability insurance shall be $5,000,000 per claim or occurrence and $5,000,000 aggregate. The vendor will be responsible for the payment of any deductibles or self-insured retentions. If the general liability insurance and/or the umbrella or excess general liability insurance is written on a claims basis, coverage will be maintained in effect at the specified limits for two (2) years following completion and acceptance of the work. Workers' compensation insurance shall provide statutory workers' compensation coverage and employer's liability coverage with limits of, at a minimum, $100,000 disease – each employee and $500,000 accident and $500,000 disease – policy limit.

The certificate of insurance shall provide the City of Auburn with thirty (30) days written notice of cancellation of any of the coverage named in said certificates. The City of Auburn will be shown as an additional insured under the vendor's general liability insurance, umbrella or excess liability insurance and automobile liability insurance. The vendor agrees to indemnify, hold harmless, and defend the City, its officials, representatives, agents, servants, and employees from and against any and all claims, actions, lawsuits, damages, judgments, liability and expense, including attorneys fees and litigation expenses, in whole or in part arising out of, connected with, or in any way associated with the activities or products of the vendor, its employees, or its sub-vendors in connection with the work to be performed under this contract.

The successful bidder will note that the City pays by invoice on each Friday of the month. Invoices must be received by accounts payable at least seven working days before the scheduled check write. If you have any questions concerning billing, contact our accounts payable office at (334) 501-7237.

CITY OF AUBURN

Karen S. Broome
Purchasing Officer

CITY OF AUBURN
AUBURN, ALABAMA
MINIMUM BID SPECIFICATIONS
2009 Truck Cab and Chassis with Automated Side Loading Refuse Collection Body

It is the intent of these specifications to describe a 2009 Truck Cab and Chassis with Automated Side Loading Refuse Collection Body. These specifications describe and state minimum requirements of this item. Bids submitted on item not meeting these minimum requirements will be subject to rejection.

The following are intended as guidelines, all equivalent or comparable units will be considered.

All bidders must fill in all blanks: **YES** if meeting or exceeding specifications and **NO** if exceptions are taken. Any exceptions taken must be explained in written detail on bidder's letterhead and attached to the bid submitted. Bidder must attach copy of factory warranties for items being bid.

	YES	NO	OFFERED
A. CHASSIS			
1. Wheelbase – 210 inches, as recommended by body manufactured.	____	____	_____
A. Platform – 297 inches	____	____	_____
B. After frame – 90 inches (Low entry cab isn't acceptable)	____	____	_____
2. Engine and Equipment			
A. 345 HP minimum diesel engine	____	____	_____
B. Torque rating of 1360 feet lbs. @1200 rpm	____	____	_____
C. 3-12 volt (625 CCA) batteries	____	____	_____
D. Single vertical exhaust with turn out	____	____	_____
E. Electric 12 volt starter gear reduction	____	____	_____
F. Aluminum flywheel housing	____	____	_____
G. 15" single element air filter or greater	____	____	_____
H. 200 amp alternator	____	____	_____
I. Crankshaft PTO adapter	____	____	_____
J. Engine Alarm system with light and buzzer; equivalent or better	____	____	_____
K. AD-9 air dryer system	____	____	_____
L. Incorporate antilock brake system	____	____	_____
M. Minimum 18.7 CFM air compressor	____	____	_____

	YES	NO	OFFERED
3. Transmission			
A. Allison (or equivalent) HD4500-RDS Rugged duty series gen 4	____	____	_____
B. Transmission cooler	____	____	_____
C. Oil resistant transmission mounts	____	____	_____
D. Vocational package – Allison (or equivalent), Special refuse service, single selector	____	____	_____
E. Dana/Spicer (or equivalent) 1760 driveshaft with coated Splines	____	____	_____
F. Dana/Spicer (or equivalent) 1710HD inter-axle driveshaft with coated splines	____	____	_____
4. Frame and Equipment			
A. 13.25” X 3.25” X .3125” frame rails or greater with ¼” steel frame reinforcement inside	____	____	_____
B. 10” front frame extension	____	____	_____
C. Swept back steel front bumper, channel type	____	____	_____
D. Front tow device pin	____	____	_____
E. Web channel type cross member, behind rear axle	____	____	_____
F. Skid plate under bumper and radiator	____	____	_____
5. Front Axle and Equipment			
A. Front axle (20,000 lbs capacity)	____	____	_____
B. Front axle ground clearance shall be minimum 11 inches	____	____	_____
C. Rockwell (or equivalent) “S” cam type brakes 16.5” X 5” with dust shields	____	____	_____
D. Multi-leaf springs (20,000 lbs capacity)	____	____	_____
E. 592S Shepard (or equivalent) integral power steering	____	____	_____
F. Automatic slack adjusters	____	____	_____
G. Static load cushions	____	____	_____

			YES	NO	OFFERED
6.	**Rear Axle and Equipment**				
	A.	Rear axle (46,000 lbs capacity)	____	____	_____
	B.	4.88 axle ratio	____	____	_____
	C.	Multi-leaf tandem rear suspension	____	____	_____
	D.	Bronze trunnion bushing	____	____	_____
	E.	Transverse torque rod	____	____	_____
	F.	Oil seals, Chicago rawhide (or equivalent)	____	____	_____
	G.	Rockwell (or equivalent) "S" cam 16.5" X 7" Q rear brakes with dust shields	____	____	_____
	H.	Automatic slack adjusters	____	____	_____
	I.	Power divider lockout in cab manual air valve with warning	____	____	_____
	J.	Buzzer and light	____	____	_____
	K.	Anti-sway springs	____	____	_____
7.	**Tires and Wheels**				
	A.	Front tires: 425/65R22.5 G286 18 ply	____	____	_____
	B.	Rear tires: 11R22.5 G124 14 ply	____	____	_____
	C.	Front wheels: 22.5" X 12.25", hub piloted	____	____	_____
	D.	Rear wheels: 22.5" X 8.25", hub piloted (10-hole)	____	____	_____
8.	**Fuel Tank**				
	A.	80 gallon, 24" diameter RH steel fuel tank	____	____	_____
9.	**Cab and Equipment**				
	A.	Cab over design	____	____	_____
	B.	Right hand drive only with air ride design seat	____	____	_____
	C.	West coast mirrors, heated, bright finish (left hand & right hand)	____	____	_____

	Cab and Equipment (cont.)	**YES**	**NO**	**OFFERED**
D.	LH & RH convex mirror, bright finish	____	____	_____
E.	Air horn	____	____	_____
F.	Cab lift	____	____	_____
G.	Roof access, cab ladder and anti-skid roof	____	____	_____
H.	LH & RH roll up windows	____	____	_____
I.	Fixed rider's seat	____	____	_____
J.	Lap and shoulder seat belts (both sides)	____	____	_____
K.	Factory installed air conditioner and heater	____	____	_____

10. Instruments

A.	Hobbs (or equivalent) engine hour meter	____	____	_____
B.	English display gauges	____	____	_____
C.	Speedometer with electric trip odometer	____	____	_____
D.	Engine tachometer, electronic w/o hour meter	____	____	_____
E.	Transmission oil temperature	____	____	_____
F.	Transmission oil level sensor	____	____	_____
G.	Turn signal switch w/ dimmer switch	____	____	_____
H.	Windshield Wipers, 2 speed electric with intermittent	____	____	_____
I.	Electric circuit protection package	____	____	_____
J.	AM/FM Radio	____	____	_____

11. Paint

Bahama Blue (Centari—5240-A) with Black frame	____	____	_____

B. REFUSE COLLECTION BODY

Body and Arm design being bid must have been in production for at least 5 consecutive years to ensure a field proven product. Documentation may be requested.

1. Body Specification		YES	NO	OFFERED
A.	The packer body shall have a capacity, excluding the receiving hopper, of not less than: 28 YD^3	____	___	_____
B.	Body side wall construction must be curved in design	____	___	_____
C.	Body Floor shall be 10 gauge AR200, 90,000psi tensile rating.	____	___	_____
D.	Body channels will be 3/16"x3"x6"	____	___	_____
E.	Body will be dump to unload with eject assist design	____	___	_____
F.	The body will be raised by two single acting cylinders, chrome plated, case hardened, 3 stage 3 ½" bore X 2" rod X 66 ½" stroke	____	___	_____
G.	The dump cylinders shall have orifices incorporated into the cylinder to prevent the body from lowering at a rate that is faster than the normal rate of decent in case of failure	____	___	_____
H.	The body will be of tapered style, capable of dumping fully loaded.	____	___	_____
	1. The outside width of the body shall be no more than 96"	____	___	_____
	2. Inside body height at four corners will be 85	____	___	_____
	3. Inside body height in center of body to be 95 ¾"	____	___	_____
	4. Outside body height is to be 103" above chassis frame rails.	____	___	_____
I.	The body floor must be semi-round for greater strength and containment of liquids.	____	___	_____
J.	Body roof to be constructed of 11 gauge steel AR200	___	___	_____
K.	Body side wall, first section street side to 1/8" AR400	___	___	_____
L.	Body side wall all other sections to be 11 gauge AR200	___	___	_____
M.	Body bolsters – 3/16" high strength steel	___	___	_____

Body Specification (cont.)		**YES**	**NO**	**OFFERED**
N.	Bolt on body fender- 14 gauge A607	____	___	_____
O.	The packer body must be mounted as close to the chassis cab as possible for optimum weight distribution	___	___	_____
2.	**Hopper Specifications**			
A.	Capacity must be no less than 4.4 cubic yards	___	___	_____
B.	Hopper lower left side to minimum 3/16" AR200	____	___	_____
C.	Hopper lower right side to be minimum 10 gauge A607	___	___	_____
D.	Hopper upper side to minimum 14 gauge A607	___	___	_____
E.	Hopper floor wear area to be ¼" AR400 180,00 lbs psi	___	___	_____
F.	Hopper floor must be flat.	____	___	_____
G.	Hopper side bolsters: 12 gauge A607	___	___	_____
H.	Floor supports: 3'x 3"x 11 gauge A500 tubing	___	___	_____
I.	Hopper shall incorporate a 3" deep, 12" wide transverse sump the full width of the hopper. Transverse sump shall be tapered the last 14 ½" closest to the cleanout door to direct drainage to the cleanout door.	____	___	_____
J.	Hopper shall have a 19 ¼" x 22 ¼" cleanout door located on street side incorporates a gasket to prevent leakage.	___	___	_____
K.	Street side cleanout door will be fastened with wing nut style fasteners to prevent accidental opening. The cleanout door will incorporate a proximity switch for safety to shutdown the hydraulics when door is open. Limit switches will not be accepted.	____	___	_____
L.	Hopper will have sliding type 15" x 23" access door on the curbside that will incorporate a proximity switch for safety to shutdown the hydraulics when door is opened. Limit switches will not be accepted.	____	___	_____
M.	Hopper will incorporate a 26" wide x 34" high street side operator entry door for easy access to the hopper. The door latch will be ¼ turn type.	____	___	_____

Hopper Specifications (cont.)		**YES**	**NO**	**OFFERED**
N.	Street side hopper entry door will incorporate a proximity switch to shutdown the hydraulics when the operator needs to access the hopper for cleaning and/or inspection. Limit switches will not be accepted.	____	___	_____
O.	Hopper will have a foldaway ladder with 6-rungs spaced 12" apart. The ladder will be mounted to the street side of the hopper and shall be bolt-on type for ease of replacement.	___	___	_____

3. Packer

A.	Packing panel force shall be no less than 79,500 lbs.	____	___	_____
B.	Compaction rating must be minimum of 850 lbs. per cubic yd.	____	___	_____
C.	Packing panel must be of front-to-back ram type.	____	___	_____
D.	The packer panel must have an auto-pack function that is actuated with completed cycle of the arm.	____	___	_____
E.	Packing panel must extend 22" into the body during the load ejection cycle to more efficiently discharge the load.	____	___	_____
F.	Packing panel shall incorporate a 3/16" steel one-piece follower panel which allows the operator to dump even when the packing panel is fully extended into the body during the packing cycle.	____	___	_____
G.	Packer panel shall ride in tracks, one on each side of the hopper floor, 5 ½" height x 4" wide x ¼" thick.	___	___	_____
H.	The slide shoes shall incorporate extended wear chromium carbide wear strips on the lower, outer and upper portions of the shoes.	____	___	_____

4. Arm Specifications

A.	Arm must be located on the curbside frame rail with main mount extending under the chassis frame to the street side frame rail to minimize stress on the arm mount. The arm must be centered in relation to the hopper. Arm shall not be located in the hopper or in front of the hopper to minimize stress that occurs with those designs.	____	___	_____

Arm Specifications (cont.)		**YES**	**NO**	**OFFERED**
B.	Arm clearance shall be a minimum of 11" from the ground at its lowest point.	____	___	_____
C.	Arm reach to be a useable 9 feet (inside of grabber at home position to container)	____	___	_____
D.	Arm must have a zero grab capability i.e. the ability to pick up containers at the side of the unit without extending the arm.	____	___	_____
E.	Arm reach and dump cylinders will be internally cushioned to slow the arm movement at the end of the return of the reach cylinder and the return of the dump cylinder. Cushioning by use of operator switches will not be accepted .	____	___	_____
F.	Arm must be capable of lifting 2,000 lbs. @ zero extension and 750 lbs. at full 9' extension.	___	___	_____
G.	Arm must be capable of using full flow of its pump at any point during the packing cycle at idle.	___	___	_____
H.	Grabber opening – compatible to service 32 to 96 gal universal carts	___	___	_____

5. Tailgate Specifications

A.	Tailgate Side and Rear Walls shall be constructed of 1/8” AR400, 180,000 lb psi tensile rating steel.	____	___	_____
B.	Tailgate shall be of curved design for exceptional strength without the need for additional bolsters or supports.	____	___	_____
C.	Tailgate to be hydraulically actuated by 2 double acting chrome plated cylinders, 2-1/2” bore x 1-1/2” rod x 38” stroke	____	___	_____
D.	The tailgate cylinders shall have orifices incorporated into the cylinder to prevent the tailgate from lowering at a rate that is faster than the normal rate of decent in case of failure.	____	___	_____
E.	Tailgate Automatic Locking Mechanism will be actuated with controls located inside the cab. The locking mechanism shall use a minimum of 5 points of mechanical contact to ensure a tight seal at all times. Withstand full load capability. Any tailgate design that incorporates manually operated pins located at the tailgate will not be accepted.	____	___	_____

Tailgate Specification (cont.)		**YES**	**NO**	**OFFERED**
F.	Unit will incorporate a tailgate open audible alarm able to be heard in cab and outside of body and a tailgate open visual indicator in the cab.	____	___	_____
G.	Tailgate controls will consist of 2 manually operated rocker type switches and will be momentary type for safety. On/off type switches will not be accepted.	____	___	_____
H.	Tailgate will include a manually operated safety stand attached to the tailgate and holder located at the bottom back of the body for safe cleanout and maintenance of the unit. Minimum clearance will be 36" between the tailgate and body	____	___	_____
I.	Tailgate control valve must be located on the body for ease of maintenance.	____	___	_____
J.	Post and Bolsters (Header and Footer): 10 GA A715 GRD 50 Steel	____	___	_____

6. Controls

A.	Single Joystick Control for Arm and Grabber for ease of operation by driver will be located in the cab. Multiple lever arm controls will not be accepted.	____	___	_____
B.	Joystick must incorporate air lines into the joystick and air canisters to control the movement of the valves for feathering.	____	___	_____
C.	Joystick operations of the arm will activate when the brake pedal or the parking brake is applied by the operator. Units requiring chassis transmission to be in neutral for arm operation will not be accepted.	____	___	_____
D.	Tailgate controls must be located in cab and be able to fully lock and unlock from inside the cab. Tailgates with locking mechanisms, manual or otherwise, requiring operator to exit the cab will not be accepted.	____	___	_____
E.	Control panel will incorporate a master on/off switch that has a safety lock out / Tag out device for maintenance.	____	___	_____

Controls(cont.)		**YES**	**NO**	**OFFERED**
F.	The control panel box will have a Control Area Network based Programmable Logic Controller that will be contained in a weatherproof housing inside the control box. Control boxes with exposed control boards will not be accepted due to the possibility of corrosion and contamination. Socket type components will not be accepted due to the possibility of vibrating loose and causing failures.	____	___	_____
G.	Control panel will feature an emergency stop switch that will be lighted and red in color.	____	___	_____
H.	Control panel will incorporate the use of Cannon style plugs.	____	___	_____
I.	Control panel will incorporate the use of a fuse panel and will be located on the back of the control box for ease of troubleshooting and maintenance.	____	___	_____
J.	Control panel shall incorporate an indicator light to show when the hydraulic system has gone into hydraulic over speed.	____	___	_____
K.	Control panel switches will be supplied for the following controls: Packer extend and retract, pump on/off, Arm on/off, Tailgate activate, body activate, body raise/lower, tailgate raise/lower, hopper work light, arm work light, rear strobe system, body side lights (traps), outside controls.	____	___	_____
L.	Control panel will incorporate short circuit protection, in case of failure, to ensure other functions will continue to operate normally.	____	___	_____
M.	All operations of the arm and packer panel must function with the vehicle in gear at idle to reduce vehicle fuel consumption and wear. Arms utilizing engine speed/throttle advance will not be accepted.	____	___	_____
N.	Grabber controls must be integrated onto main joystick	____	___	_____
O.	A push-button type Manual Packer Cycle control must be located on control box.	____	___	_____
P.	Unit must have an auto-pack function for the packer panel that commences after the dump cycle and return of cart.	____	___	_____
Q.	This auto-pack cycle must be programmable for multiple cycles during the route by the operator to customize the pack cycle for light to dense neighborhoods on the route. (i.e. 1-5 packer panel cycles)	____	___	_____

			YES	NO	OFFERED
7.	**Hydraulics**				
	A.	The system will incorporate a tandem gear pump configuration.	____	___	_____
	B.	Pump Model to be tandem gear displacement pump for better prevention against contamination of the hydraulic system. Piston pumps will not be accepted.	____	___	_____
	C.	The arm and main pump sections will be designed to work in gear at idle.	____	___	_____
	D.	Pump Flow: 35 gpm @ 800RPM	____	___	_____
	E.	Reservoir: 50 Gallons	____	___	_____
	F.	Hydraulic system will incorporate mechanical Hydraulic Over-speed Control (H.O.C.) to prevent damage to the hydraulic system. Air actuated, engine rpm sensor based or electronic over-speed control will not be accepted.	____	___	_____
	G.	All hydraulic tubing to be zinc coated for better resistance to corrosion.	____	___	_____
	H.	Hydraulic cylinders should be o-ring (Tele) v-pack rod should be hardened chrome.	____	____	_____
8.	**Additional Features**				
	A.	All electrical wiring will be color coded, numbered and the function of the individual wire be stamped every four inches along the wire for ease of maintenance and troubleshooting.	____	___	_____
	B.	Weather Pak® and Deutsch® Connectors (or equivalent) only	____	___	_____
	C.	5 lb. Fire Extinguisher and set of 3 Safety Triangles included in cab	____	___	_____
	D.	3-camera safety monitoring system with cameras mounted on rear of truck, inside hopper and hopper wall for arm view with in cab flat screen monitor.	____	___	_____
	E.	LED strobe system consisting of 4 amber LED strobes mounted at the corners of the tailgate.	____	___	_____
	F.	All lights on body are to be LED design.	____	___	_____

Additional Features (cont.)		**YES**	**NO**	**OFFERED**
G.	Hopper work light	____	___	_____
H.	Arm work light	____	___	_____
I.	Autoload, Arm Automation Controls - push button group	____	___	_____
J.	Body painted Omaha Orange (Centari-31AH)	____	___	_____

C. OTHER SPECIFICATIONS:

Body installer is required to approve and list the following weight requirements. The GVW of combined weight of cab, chassis and loader should not exceed 97 percent of total vehicle GVW when fully loaded. The installer will assume full responsibility for these calculations.

1. List the following items:
   a. Cab and Chassis gross GVW:_____. (For example – a 33,000 GVWR IHC 4300 weighs approximately 11,686 lbs).

   b. Gross weight of left side loader including all fluids and estimated weight of operator: _____.

D. OTHER GENERAL SPECIFICATIONS

1. Standard equipment not mentioned is to be included.

2. Successful bidder must furnish a complete parts, maintenance, and operator's manual.

3. Successful bidder must be capable of performing own warranty work in his maintenance department.

4. First 90 Days of Warranty covers parts, services and mileage for repair.

5. The body shall be covered by a twelve (12) month warranty. (Include a copy of Warranty statement)

E. PRICE OF OPTIONS: FEATURES

The City of Auburn reserves the right to purchase these additional options.

1. Cab and chassis with Telma (or equivalent) brake retarder.

2. Body – Secondary arm control shall be mounted inside cab below seat to allow operator to operate arm while outside of truck.

3. Hydraulic cylinders shall be covered by a sixty (60) month warranty.

F. DELIVERY

1. Complete unit to be delivered to the following address:
356 North Donahue Drive, Auburn, Alabama 36832

2. Bid price will F.O.B. Auburn and includes title application.

3. The city must be sent a copy of the confirmation order within 24 hours after receipt of order.

4. Penalty of $100.00 per day for delay in delivery of equipment on stated date.

CITY OF AUBURN
AUBURN, ALABAMA
MINIMUM BID SPECIFICATIONS
2009 Truck Cab and Chassis with Automated Side Loading Refuse Collection Body

TO: City of Auburn

We, the undersigned, propose to furnish the items listed below and guarantee that if we are awarded the bid, we will furnish these goods in accordance with the attached specifications. **THIS FORM MAY BE COPIED IF YOU WISH TO BID ALTERNATE MODEL EQUIPMENT.**

YOU MUST SPECIFY THE EXACT EQUIPMENT BEING BID
(Enclose brochures/description documents if needed)

MAKE BID: _____

MODEL BID: _____

TOTAL BID: (Options Not Included)_____

OPTIONS:	**PRICE**
#1. Telma brake retarder	_____
#2. Secondary arm control	_____
#3. Hydraulic cylinders 60 month warranty	_____

ESTIMATED DELIVERY DATE:_____
DELIVERY DATE IS IMPORTANT CONSIDERATION

Exceptions:_____

_____

BID PRICE IS GUARANTEED FOR NINETY (90) DAYS AFTER BEING OPENED BY THE CITY OF AUBURN

_____ _____
Authorized Signature Name of Firm

_____ _____
Printed Name of Signee Address

_____ _____
Date City, State, zip

_____
Phone/Fax No.

NOTE THAT THERE IS THE POSSIBILITY THAT HIS EQUIPMENT WILL BE ON A LEASE PURCHASE PLAN THROUGH OUR OWN FINANCIAL SOURCE AND IT WILL BE IN THEIR NAME UNTIL SUCH TIME AS THE LEASE IS PAID OFF.