

City of Scottsbluff, Nebraska

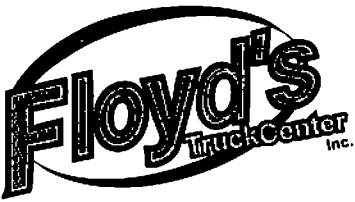
Monday, July 1, 2013

Regular Meeting

Item Bids1

Council to consider awarding the bid of \$189,999.00 for a new rapid rail loader and compactor for Environmental Services to Floyd's Trucking.

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SCOTTSBLUFF • SIDNEY • CHEYENNE

See All Our Trucks At www.floydstrucks.com

TO: City of Scottsbluff.

PER BID ON NEW TRUCK CHASSIS AND NEW RAPID RAIL
 LOADER + COMPACTOR !

I ONLY RECEIVED ONE BID FOR TRADE IN !
 OUR BID WAS \$215,281⁰⁰ FOR NEW FREIGHTLINER TRUCK
 WITH NEW WAY SIDEWINDER RAPID RAIL COMPACTOR !
 TRADE PRICE IS \$25,282⁰⁰ FOR A DEDUCTION OF
 \$189,999⁰⁰

NEW -	\$	215,281 ⁰⁰
TRADE -	\$	25,282 ⁰⁰
<hr/>		
D. Deduction	\$	189,999 ⁰⁰

THANK YOU

Tom Cooper GM Floyd's Truck Center



BID #2 TOTAL PRICE IS \$ 215,281⁰⁰

2014 Freightliner w/ NEW WAY SIDELOADER?

Automated Side Loader Refuse Collection Truck Body
For the City of Scottsbluff

SUGGESTED BID SPECIFICATIONS
Bidder Shall Complete the Following
If No, State Specifically the Item being Offered

Meets Specifications:
YES NO

Section 1 APPLICATION

- 1.1 It is the intent of these specifications to describe the minimum requirements for an automated Side Loading refuse compactor body. YES NO
- 1.2 The capacity shall be 31 cubic yards, exclusive of the hopper. YES NO
- 1.3 Features standard to this unit will be furnished by the successful bidder. Body shall conform in strength, quality of material, and workmanship to that provided by the best engineering and manufacturing practices of the industry. YES NO
- 1.4 All equipment shall be new model design, assembled and ready for operation at the time of delivery. YES NO
- 1.5 Bidders shall attach a statement that the unit meets or exceeds these specifications and/or list any exceptions fully and accurately. YES NO

Section 2 GENERAL

- 2.1 Refuse body will have a capacity of 31 cubic yards, exclusive of the hopper. YES NO
- 2.2 Packer body capable of packing 900 pounds per cubic yard of dry household trash. YES NO
- 2.3 Hopper shall have a minimum capacity of 6 cubic yards. YES NO
- 2.4 Packer must meet all applicable standards. YES NO

Section 3 BODY CONSTRUCTION (The following specifications are minimums.)

- 3.1 The body shall be all welded construction. YES NO
- 3.2 Body wall thickness is 10 gauge Hardox 450, 174,000 psi strength. YES NO
- 3.3 Body roof thickness is 10 gauge, 80,000 psi. YES NO
- 3.4 Body floor is 7 gauge AR 235, 70,000 psi. YES NO

SECURITY PLAN FOR NEW AND EXISTING

185'16" 21 EAST JARVIS ISLAND

	Meets Specifications:	
	YES	NO
3.5 Sides, front and rear to be reinforced for strength requirements.	_X_	___
3.6 Reinforcement design and characteristics dependent upon construction methods used, but they must be certified to meet the specified compacting requirements without body distortion.	_X_	___
3.7 Unit shall have a shovel holder.	_X_	___
3.8 Unit shall have a clean out tool. Unit shall have dual cleanout doors with a dimension of 12" x 16" each.	_X_	___
 Section 4 BODY DIMENSIONS		
4.1 Body height above truck frame is not to exceed 108".	_X_	___
4.2 Outside width of the body is not to exceed 96".	_X_	___
 Section 5 HOPPER		
5.1 The hopper shall have a minimum capacity of 6 cubic yards.	_X_	___
5.2 The hopper floor shall be a minimum of 1/4" AR 400 abrasion resistant steel.	_X_	___
5.3 The hopper sides are to be a minimum of 1/4" AR 400 abrasion resistant steel.	_X_	___
5.4 A hydraulic crusher panel will be furnished to prevent refuse loss during transport.	_X_	___
5.5 A ladder or foot supports with grab handles shall be designed to meet OSHA standards and provide easy access to the hopper area.	_X_	___
5.6 The hopper shall have a minimum displacement rate of 5.4 cubic yards per minute.	_X_	___
 Section 6 PACKING MECHANISM		
6.1 The packing panel is to be 3/8" 50,000 psi steel.	_X_	___
6.2 The packing mechanism is to retain compacted material in the body.	_X_	___
6.3 Length of the packing cycle is to be determined by proximity switches. When the Auto Pack feature sees maximum pressure 3 consecutive times it shuts off indicating that the packer is full.	_X_	___

Meets Specifications:
YES NO

6.4 Packing features are dependent upon each manufactures design, but must be capable of accomplishing the requirements set forth in these specifications. It must also fulfill the operational claims made by the manufacturer.

 X

6.5 Packing shall complete a pack cycle in a maximum of 20 seconds at idle speed.

 X

6.6 Packing cylinder sleeves are chrome plated single stage cylinders. Cylinder dimensions are cylinder bore diameter is 4 1/2", cylinder rod diameter is 3", and stroke length is 43".

 X

Section 7 LIFTING AND GRIPPING MECHANISM

7.1 The lifting mechanism shall be capable of gripping, lifting, raising, and dumping containers from 36 to 110 gallons with the use of a joy stick. The joy stick shall be conveniently located to the left of the operator. An ergonomically designed padded armrest shall be provided to support the operator's arm during operation.

 X

7.2 The arm will consist of three main horizontal mast sections, one vertical lift section with 2 arms.

 X

7.3 The inner mast section will be constructed of 2 C channels with a web thickness of .5512", height of 6.189" and a leg width of 2.409". Both channels shall be 78.25" long.

 X

7.4 The middle C channels shall be of the same material only 84" long.

 X

7.5 The main outer mast assembly shall be constructed of 2 C shaped channels with a web thickness of .6378", height of 6.890" and a leg width of 2.5937" These channels shall be 83.75" long in length.

 X

7.6 There will be 6 combination bearings that the mast assembly rides on. The bearing surfaces must be of a 62 Rockwell hardness on the C scale.

 X

7.7 The main vertical mast shall be made from 6" x 8" 3/16 thick tube.

 X

7.8 There will be 2 lift arms 1" thick, 3.475" wide, and approximately 26" long made from T-1 steel.

 X

7.9 The lifting mechanism must be mounted to the chassis. Lifting mechanism's mounted to the body will not be acceptable.

 X

- | | | Meets Specifications: | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----|
| | | YES | NO |
| 7.10 | The mechanism shall be spring steel and have the capability of gripping containers within the range previously mentioned without having to change grip arm configurations. | _X_ | ___ |
| 7.11 | Gripping force is to be adjustable to provide container retention and also for limiting the radial force applied to prevent container damage. | _X_ | ___ |
| 7.12 | Lifting mechanism shall be capable of a complete cycle, which includes grip, lift, dump, undump, lower, and ungrip in a maximum of 8 seconds. | _X_ | ___ |
| 7.13 | The mechanism shall be capable of lifting, raising, dumping, and returning containers from any position within its reach. | _X_ | ___ |
| 7.14 | The mechanism shall incorporate serviceable bearings at the grip, pivot, and extension-retraction points to ensure smooth operation and long service life. | _X_ | ___ |
| 7.15 | The "reach" of the mechanism shall extend a minimum of 144" from its fully retracted to pivot, and extension-retraction points to ensure smooth operation and long service life. | _X_ | ___ |
| 7.16 | The mechanism will be capable of lifting 1,000 lbs. at any point to which the arm is extended. "Note" The "Bidder" shall provide "Certification" of this capability with their bid. | _X_ | ___ |
| 7.17 | The container shall be tilted a minimum of 45 degrees past horizontal to provide for full dumping. | _X_ | ___ |

Section 8 TAILGATE

- | | | | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 8.1 | The tailgate is to be hinged at or above the roofline using high strength steel hinges it is to be raised for load dumping by 2 double acting cylinders mounted on the outside of the tailgate. These cylinders shall be of a design that will prevent rapid lowering of the tailgate in case of a hydraulic component failure. | _X_ | ___ |
| 8.2 | The tailgate cylinders shall have chrome plated rams. Cylinder dimensions will be 3" bore diameter, 2" ram, and a 30" stroke. | _X_ | ___ |
| 8.3 | The tailgate is to be released and locked with no moving parts other than the two (2) primary lift cylinders and associated locking mechanisms. | _X_ | ___ |
| 8.4 | A gasket is to be affixed to the tailgate to provide a watertight seal between the body and tailgate. | _X_ | ___ |
| 8.5 | The tailgate must be equipped with a tailgate ajar switch with audible and visible warning devices fixed in the cab which comply with ANSI standards and warns when the tailgate is partially to completely open. | _X_ | ___ |

Meets Specifications:
YES NO

8.6 Body hinge structures must be of proper design, materials, and construction to support the tailgate.

8.7 Tailgate maintenance safety props shall be provided.

8.8 Tailgate bubble is Hardox 450, 174,000 psi, tailgate sides are 10 gauge 80,000 psi.

Section 9 EJECTION-DUMPING SYSTEM:

9.1 Dumping is to be accomplished by raising the body.

9.2 Dumping shall be done by means of a single telescoping, center mounted, hydraulic cylinder capable of lifting the box when compacted to maximum capacity. Hoist cylinder is a Nitrate treated, 4 stage cylinder, with a 180" stroke. Bore diameter of the cylinder from largest to smallest is 6 1/2", 5 1/2", 4 1/2", 3 1/2".

9.3 The body dump angle shall be such that all refuse in the box will be removed without sticking or bridging. Body dump angle is 45 degrees.

9.4 All dumping controls will be a basic control panel system that is cab mounted. Control panel must be interlocked with a manual override to prevent accidental refuse discharge.

9.5 All ejection/dumping controls shall be operated from inside the cab.

Section 10 HYDRAULIC SYSTEM:

10.1 The hydraulic system is composed of 2 vane pumps, one for body functions, and one for arm functions. Pumps have a common suction. Hydraulic pump model is Denison T6DC. D cartridge is for body function, C cartridge is for arm function. The hydraulic pressure body line shall be made up of a Denison Eco System with a 12 volt DC in line mounted solenoid which diverts the flow back to the Inlet when the pump is not engaged and a flow control block which diverts excess flow back to the Inlet. Body functions pump maximum flow is 30 gpm @ 700 rpm. Arm functions pump maximum flow is 22 gpm @ 700 rpm. Hydraulic system pressure relief for the body is 2500 psi and for the arm it is 2000 psi.

Will be off transmission

10.2 Pump capacity shall not be less than 52 gpm @700 rpm.

	Meets Specifications:	
	YES	NO
10.3 Factory installed relief valves shall be incorporated into the system and set at 2500 psi for body functions and 2000 psi for Arm functions.	_X_	___
10.4 A 10 micron absolute filter is installed in the return line.	_X_	___
10.5 Hydraulic tank is to be frame mounted and equipped with a 10 micron breather element and eye level sight gauge. Tank location will be determined by body configuration.	_X_	___
10.6 Hydraulic reservoir tank capacity must be at least 78 gallons.	_X_	___
10.7 Hydraulic system must contain cylinders capable of performing the Operational requirements set forth in these specifications.	_X_	___
10.8 Hydraulic hoses are to be SAE approved construction with hose burst pressure 4 times working pressure and have protective coverings.	_X_	___
10.9 Hydraulic control assemblies must be located so that at no time or load Condition it becomes necessary to remove the load to service these components.	_X_	___
10.10 All cylinders must have the latest design sealing materials.	_X_	___
10.11 Unit must have protective cover on pack manifold.	_X_	___
Section 11 CONTROLS:		
11.1 All compactor operating controls are to be located in the truck cab and mounted for operator convenience and comfort.	_X_	___
11.2 Warning signals shall be incorporated into all circuits monitoring abnormal compactor operations.	_X_	___
Section 12 LIGHTING AND WIRING:		
12.1 All lights and reflectors shall be in accordance with Federal and State I.C.C. Motor Vehicle Safety Standards.	_X_	___
12.2 Provisions will be made for maximum visibility and may include 2 red stop-tail lights, 2 red turn-tail lights, and an I.D. cluster. All lights must be L.E.D.	_X_	___
12.3 A lighted license plate bracket will be provided.	_X_	___
12.4 Unit must include arm, hopper, and side mounted work lights.	_X_	___

Meets Specifications:

YES NO

12.5 Unit must include 2 tailgate work lights and 4-inch amber strobe lights plus alternating flashing lights.

Section 13 PAINTING:

13.1 All components will be properly cleaned prior to priming.

13.2 All burrs and rough spots are to be removed.

13.3 Two (2) coats of rust inhibiting primer are to be applied prior to the finish coat.

13.4 Final coat to be Maroon.

Section 14 CAMERAS:

14.1 Two (2) Color Cameras will be provided: 1st placed in the rear for use as a backup camera. 2nd placed to monitor hopper area.

14.2 Color Camera monitor shall be mounted in the cab and be fully adjustable flat screen type with split screen option so all camera views can be displayed at one (1) time and automatically switch to full screen backup camera when unit is shifted to reverse.

14.3 The Cameras' shall be Safety Vision

14.4 Protective cases shall be provided for the cameras.

14.5 All Cameras' shall have shields to minimize sun glare.

Section 15 OTHER:

15.1 Two complete sets of operators, parts, and service manuals will be supplied for truck chassis and refuse body.

