

RESOLUTION NO. R18-01

**A RESOLUTION AWARDING THE BID AND AUTHORIZING THE
MAYOR TO SIGN AN AGREEMENT WITH MONTANA PETERBILT FOR THE
PURCHASE OF A GARBAGE TRUCK FOR THE
CITY OF LAUREL'S PUBLIC WORKS DEPARTMENT.**

WHEREAS, the City of Laurel needs a new garbage truck for its Public Works Department; and

WHEREAS, the City of Laurel complied with its procurement policy and Montana Law by utilizing a competitive bid process to ensure the garbage truck purchased is in the best interest of the City in both quality and price; and

WHEREAS, Montana Peterbilt was the lowest qualified bidder; and

WHEREAS, the lowest bid was for \$279,684.00.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Laurel, Montana,

That the Mayor is authorized to sign an agreement with Montana Peterbilt for the purchase of the garbage truck for the total purchase price of \$279,684.00

Introduced at a regular meeting of the City Council on January 16, 2018, by Council Member Wilke.

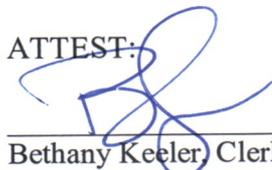
PASSED and APPROVED by the City Council of the City of Laurel this 16th day of January 2018.

APPROVED by the Mayor this 16th day of January 2018.

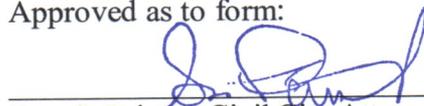
CITY OF LAUREL


Thomas C. Nelson, Mayor

ATTEST:


Bethany Keeler, Clerk-Treasurer

Approved as to form:


Sam S. Painter, Civil City Attorney

END: INVITATION TO BID

CITY CLERK
CITY OF LAUREL
P.O. BOX 10
LAUREL, MONTANA 59044

FORM OF AGREEMENT – PAGE 1

AGREEMENT, made on the 16 day of January, 2018, by and between the City of Laurel and Montana Peterbilt.

WITNESSETH that the above named company and the City of Laurel, for consideration, hereinafter name agree as follows:

SCOPE OF OPERATION: The contractor shall provide material and equipment, perform the work and do everything required by the specifications entitled:

CONTRACT SPECIFICATION:

**ONE NEW TANDEM TILT CAB. 2017 MODEL OR NEWER, 60,000 G.V.W.
TRUCK CAB AND MINIMUM 31-CUBIC YARD AUTOMATED SIDE LOADING
REFUSE COMPACTOR BODY INSTALLED**

TIME OF COMPLETION: Delivery of goods, equipment, and/or services shall be expected within one hundred eighty (180) days of the award of bid.

FOLLOWING IS AN ENUMERATION OF THE CONTRACT BID

Intent and Scope of Operation
Call for Sealed Bids: Notice to Bidders (Bid Bond/Performance Bond)
Instructions to Bidders
Contract Specifications
Standard Terms and Conditions
Invitation to Bid
Form of Agreement
Form of Proposal (Bid Proposal)

IN WITNESS WHEREOF, the parties hereto have executed this agreement to day and year above written.

Montana Peterbilt, LLC
Contractor

By: Paul Nest
Title Sales

CITY CLERK
CITY OF LAUREL
P.O. BOX 10
LAUREL, MONTANA 59044

FORM OF AGREEMENT – PAGE 2

CITY OF LAUREL



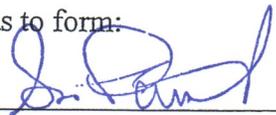
Mayor

ATTEST:



City Clerk

Approved as to form:



Civil City Attorney

END: FORM OF AGREEMENT

CITY HALL
115 W. 1ST ST.
PUB. WORKS: 628-4796
WATER OFC.: 628-7431
COURT: 628-1964
FAX 628-2241

City Of Laurel

P.O. Box 10
Laurel, Montana 59044



Office of the Director of Public
Works

January 11, 2018

Thomas C. Nelson, Mayor

Re. Refuse Truck Purchase Recommendation

I wanted to inform you that due to the winter road conditions that the inspection and demonstration of the Bridgeport refuse truck did not take place. Matt and Kevin had to turn around about an hour after they left Laurel due to the snow and road conditions.

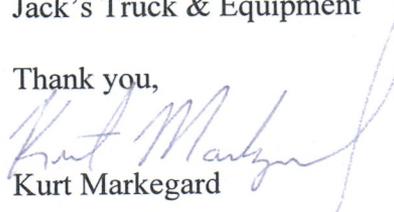
It is typical to have a demonstration of refuse trucks prior to the City going out for bids. The City had demonstrated a Wayne Curbtender prior to ever purchasing one eight years ago. The City also demonstrated a Heil refuse truck last year prior to going out for bids and the demonstration ended with the truck breaking down. The Bridgeport refuse truck wasn't demonstrated prior to going to bid as no sale representative had contacted the City to arrange a demonstration of their system. In order to understand how the Bridgeport refuse trucks work, City staff had to view the system on Youtube. I suggested to try and attempt the demonstration of a Bridgeport refuse truck after bids closed in order to evaluate its operation and unfortunately it didn't work out due to the weather.

Matt and I have discussed the purchase of the new refuse truck and feel that it would be in the best interest of the City to purchase the Wayne Curbtender refuse body with the Peterbilt truck chassis from Montana Peterbilt for \$279,684.00 which is the lowest bid for the Wayne Curbtender refuse body.

The Wayne Curbtender refuse body bids are as follows;

Montana Peterbilt	\$279,684.00
Tri State Truck & Equipment	\$295,418.00
Jack's Truck & Equipment	\$296,028.00

Thank you,


Kurt Markegard

CITY CLERK
CITY OF LAUREL
P.O. BOX 10
LAUREL, MONTANA 59044

FORM OF PROPOSAL (BID PROPOSAL)

The undersigned hereby submits the following proposal: Having carefully examined the specifications entitled CONTRACT SPECIFICATIONS:

For the City of Laurel Public Works Department, as well as all other conditions affecting the bid, the undersigned proposes to furnish all equipment and services necessary to complete the work required.

180 days from Order Date
Time and Date of Delivery

**ONE NEW TANDEM TILT CAB. 2017 MODEL OR NEWER, 60,000 G.V.W.
TRUCK CAB AND MINIMUM 31-CUBIC YARD AUTOMATED SIDE LOADING
REFUSE COMPACTOR BODY INSTALLED**

Net FOB Laurel, Montana

\$ 279,684.



By Robert

Title Sales

Company Montana Rehabilit LLC

Date 12/27/17

END: FORM OF PROPOSAL (BID PROPOSAL)



Sentry Insurance - Surety Bond Department
 1800 North Point Drive
 P.O. Box 8022
 Stevens Point, WI 54481
 Phone: 800.473.6879

**Sentry Select Insurance Company
 SURETY BOND FOR THE PROPOSAL OR BID ON A CONTRACT**

Bond Number: BN 85651

Date Bond Executed: December 26, 2017
 (must not be later than bid opening date)

Surety

Name: Sentry Select Insurance Company
 Address: 1800 North Point Dr.
 Stevens Point, WI 54481
 Incorporated: State of Wisconsin
 Telephone: 1-800-473-6879

Principal

Principal's Name: Montana Peterbilt
 Primary Address: 2355 N. Frontage Road
 Billings, MT 59103
 State of Incorporation: Montana
 Type of Organization: Limited Liability Corporation

PENAL SUM OF BOND					BID IDENTIFICATION	
PERCENT OF BID PRICE	AMOUNT NOT TO EXCEED				BID DATE	INVITATION NO.
	Million(s)	Thousand(s)	Hundred(s)	Cents		
10%	00	28	120	00	12/28/2017	2017 truck and side load compactor
					FOR: Equipment	

OBLIGATION:

We, the Principal and Surety(ies), are firmly bound to the City of Laurel, Montana (hereinafter called the "Obligee") in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations active as co-sureties, we, the Sureties, bind ourselves in such sum "jointly" and "severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, for the payment of the sum shown opposite the name of Surety. If no limit of liability is indicated, the limit of liability is the full amount of the penal sum.

CONDITIONS:

The Principal has submitted the bid identified above.

THEREFORE:

The above obligation is void if the Principal - (a) upon acceptance by the Obligee of the bid identified above, within the period specified therein for acceptance (sixty (60) days if no period is specified), executes the further contractual documents and gives the bond(s) required by the terms of the bid as accepted within the time specified (ten (10) days if no period is specified) after receipt of the forms by the principal; or (b) in the event of failure to execute such further contractual documents and give such bonds, pays the Obligee for any cost of procuring the work which exceeds the amount of the bid.

Each Surety executing this instrument agrees that its obligation is not impaired by any extension(s) of the time for acceptance of the bid that the Principal may grant to the Obligee Notice to the surety(ies) of extension(s) are waived. However, waiver of the notice applies only to extensions aggregating not more than sixty (60) calendar days in addition to the period originally allowed for acceptance of the bid.

WITNESS:

The Principal and Surety(ies) executed this bond and affixed their seals on the above date.

SURETY

X *Dorene R. Bialas*

Dorene R. Bialas, Attorney-in-Fact
 (Printed Name and Title)

NA

Authorized Countersignature (Where Required)



PRINCIPAL

X *Rod Neal*

Rod NEAL *MT Peterbilt LLC* *owner*
 (Printed Name and Title)

SENTRY SELECT INSURANCE COMPANY
POWER OF ATTORNEY
Bond Number: BN 85651

Know all men by these presents, that Sentry Select Insurance Company, a corporation duly organized under the laws of the State of Wisconsin, and having its principal place of business in the City of Stevens Point, State of Wisconsin, does hereby make, constitute and appoint JOHN T. BAUMAN, BEVERLY R. BEIGEL, DORENE R. BIALAS, CURT B. ESQUEDA, CHERYL M. JISKO, ANDY M. KURSZEWSKI, JENNIFER M. MURPHY, COLLEEN A. RAJSKI, JENNIFER L. THAUER, MICHELLE M. THAUER, and LYNDA L. WACHOWIAK as its true and lawful Attorneys-in-Fact, for it, and in its name, place and stead, with full power and authority to sign, execute, acknowledge and deliver for and on its behalf as Surety, any and all bonds with an effective date on or after February 17, 2017.

Signed:

Scott A. Miller, President
SENTRY SELECT INSURANCE COMPANY



Attest:

Kenneth J. Erler, Secretary
SENTRY SELECT INSURANCE COMPANY

ACKNOWLEDGMENT

State of Wisconsin)
County of Portage) ss.

I, Shelley M. McEachen, Notary Public, do hereby certify that Scott A. Miller and Kenneth J. Erler, the President and the Secretary, respectively, of Sentry Select Insurance Company, personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such President and Secretary, appeared before me this day in person and acknowledged that they signed, sealed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and official seal this 17th day of February, 2017.



Shelley M. McEachen, Notary Public
My Commission expires 10/17/17

AUTHORIZATION

I, Raina Zanow, Assistant Secretary of Sentry Select Insurance Company, hereby certify that Sentry Select Insurance Company is duly licensed to transact fidelity and surety business in all States of the United States of America, that the foregoing Power of Attorney is a correct and true copy of the original Power of Attorney, that said Power of Attorney has not been revoked, and I further certify that the following is a true and exact copy of two resolutions passed by the Board of Directors of Sentry Select Insurance Company at meetings held by said Board, a quorum being present and voting on the date specified below, which resolutions are still in effect:

RESOLVED, that the President or any Senior Vice President in conjunction with any Secretary or Assistant Secretary, be and they are hereby authorized and empowered to appoint Attorneys-in-Fact of the Company, in its name and as its acts, to execute and acknowledge for and on its behalf as Surety any and all bonds, recognizance, contracts of indemnity, waivers of citation and all other writings obligatory in the nature thereof, with power to attach thereto the seal of the Company. Any such writings so executed by such Attorneys-in-Fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected Officers of the Company in their own proper persons. (Adopted 11 September 1969.)

RESOLVED, that the signature of any Officer authorized by the Bylaws and the Company seal may be affixed by facsimile to any power of attorney or special power of attorney or certification of either for the execution of any bond, undertaking, recognizance or other written obligation in nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such Officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed. (Adopted 29 April 1971.)

Given under my hand and official seal this 26th day of December, 2017.

Raina Zanow, Assistant Secretary
SENTRY SELECT INSURANCE COMPANY



CITY CLERK
CITY OF LAUREL
P.O. BOX 10
LAUREL, MONTANA 59044

INVITATION TO BID

RETURN TO: City Clerk, City of Laurel, P.O. Box 10, Laurel, Montana 59044

Please bid net prices at which you will agree to furnish required equipment. To receive consideration, this form must be signed in full by a responsible, authorized agent, office, employee or representative of your firm.

BID ITEM:

ONE NEW TANDEM TILT CAB. 2017 MODEL OR NEWER, 60,000 G.V.W. TRUCK CAB AND MINIMUM 31-CUBIC YARD AUTOMATED SIDE LOADING REFUSE COMPACTOR BODY INSTALLED

Enter full company name and address:

Montana Peterbilt LLC
3255 N. Frontage Road
Billings MT 59101

CONDITIONS AGREEMENT

We have read and agree to the conditions and stipulations contained herein and to the Standard Terms and Conditions contained on the attached.

We further agree to furnish the services specified at the prices stated herein, to be delivered to the location and that date set forth herein.

Paul Neal
Signature

Sales
Title

12/27/17
Date

CURBTENDER

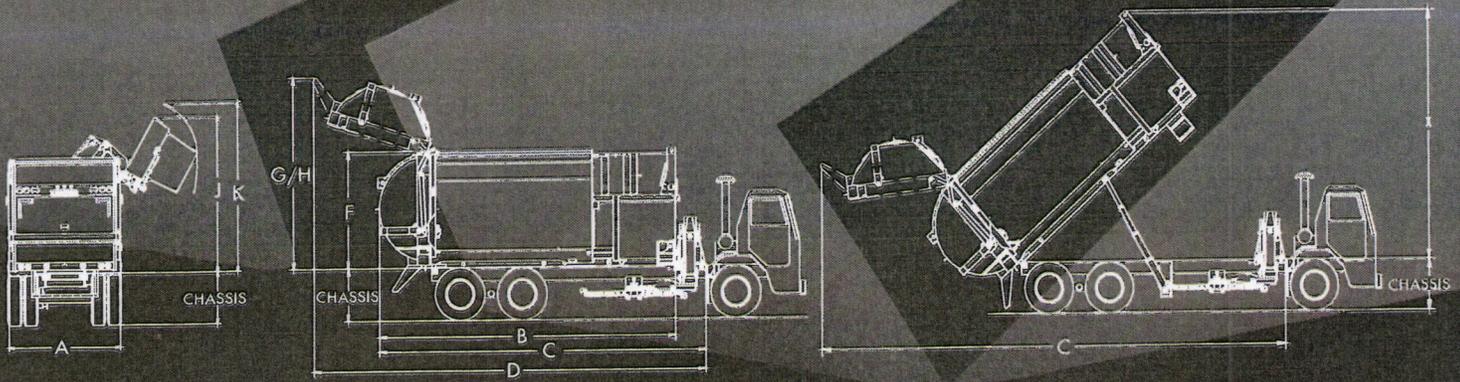
AUTOMATED SIDE LOADER



www.WayneUSA.com



WAYNE



BODY SPECIFICATIONS

	20 cu. yd.	24 cu. yd.	27 cu. yd.	31 cu. yd.
A: Width Overall	96"/2,438 mm	96"/2,438 mm	96"/2,438 mm	96"/2,438 mm
B: Length of Body	206"/5,232 mm	230"/5,842 mm	256"/6,502 mm	278"/7,061 mm
C: Length Lift Arm to Rear of Body	232"/5,893 mm	256"/6,502 mm	282"/7,163 mm	304"/7,722 mm
D: Length Lift Arm to Rear Door Open CTFE	262"/6,655 mm	286"/7,264 mm	312"/7,925 mm	334"/8,484 mm
E: Length Lift Arm to Rear Door Open CTTD	368"/9,347 mm	397"/10,083 mm	418"/10,617 mm	443"/11,252 mm
F: Height Above Chassis	96"/2,438 mm	96"/2,438 mm	96"/2,438 mm	96"/2,438 mm
G: Height Above Chassis Rear Door Open CTFE	157"/3,988 mm	157"/3,988 mm	157"/3,988 mm	157"/3,988 mm
H: Height Above Chassis Rear Door Open CTTD	194"/4,928 mm	194"/4,928 mm	194"/4,928 mm	194"/4,928 mm
I: Height Above Chassis Body Raised CTTD	175"/4,445 mm	190"/4,826 mm	207"/5,258 mm	218"/5,537 mm
J: Height Above Chassis Lift Arm Dump (30-100 gal.)	124"/3,149 mm	124"/3,149 mm	124"/3,149 mm	124"/3,149 mm
K: Height Above Chassis Lift Arm Dump (100-400 gal.)	135"/3,429 mm	135"/3,429 mm	135"/3,429 mm	135"/3,429 mm
Hopper Capacity	4 cu. yd./3 cu. m			
Approximate Body Weight	13,633 lbs.	14,149 lbs.	14,637 lbs.	15,055 lbs.

MINIMUM CHASSIS REQUIREMENTS

	36,000 lbs.	39,000 lbs.	54,000 lbs.	60,000 lbs.
Minimum GVWR	36,000 lbs.	39,000 lbs.	54,000 lbs.	60,000 lbs.
Front Axle / Rear Axle	13,000/23,000 lbs.	14,000/25,000 lbs.	18,000/36,000 lbs.	20,000/40,000 lbs.
Wheel Base	177"/4,496 mm	189"/4,801 mm	204"/5,182 mm	228"/5,791 mm
Recommended CA	151"/3,835 mm	175"/4,445 mm	n/a	n/a
Recommended CT	n/a	n/a	180"/4,572 mm	202"/5,131 mm

BODY CONSTRUCTION

- Sides: 10 gauge 50,000 PSI
- Top: 10 gauge 50,000 PSI
- Body Floor: 7 gauge 50,000 PSI
- Hopper Sides: 3/16" Hardox 450
- Hopper Floor: 1/4" Hardox 450

TAILGATE CONSTRUCTION

- 10 gauge 50,000 PSI
- Raised and lowered hydraulically
- Latched and unlatched hydraulically
- Cylinders (2) 3" diameter

PACKING/EJECTION CYLINDER

FE Series:

- Pin-to-pin mounted
- (1) double-acting telescopic
- 3 Stages for 20, 24, 27 cu. yd.
- 4 Stages for 31 cu. yd. -
6 1/2" x 5 1/4" x 4 1/4" x 3 1/4"

TTD Series:

- Pin to pin
- (1) double-acting rod
- Single stage 6"

PACKING EJECTION PANEL

- 3/8" face sheet
- Hardox replaceable wear shoes
- 2-piece hinged 3/16" follow panel

HYDRAULICS

- Tandem hydraulic pump
- 22 gpm arm, 55 gpm packer limit
- 3,000 PSI maximum system pressure
- 60 gal. hydraulic fluid reservoir
- 10 micron absolute return filter

GRIPPER

- Dual-pressure grip selection-standard
- Quick-change spring steel grippers
- Universal belt gripper (optional)
- Cylinder (1) 2 1/2" diameter x 8 1/2" stroke

LIFT ARM MECHANISM

- 2,000 lb. lift arm capacity
- 6" x 8" 50,000 PSI telescopic boom
- Adjustable roller bearing guides with
- Hardox 450 wear strips
- Hardened pivot pins
- Cylinders (1) in/out 2" diameter x
- 66" stroke, (1) lift 2 1/2" diameter x
- 26" stroke, (1) dump 2 1/2" diameter x
- 10" stroke

CONTROLS (all optional)

- Quik-Grip™ programmable gripper positioning
- New proportional hydraulic valve
- New proportional joystick control
- Auto shake function
- Coordinated auto-dumping

ENGINEERED FOR PERFORMANCE



701 Performance Drive
Cedar Falls, IA 50613
Phone: (319) 266-1721
Fax: (319) 266-8207



PowerPak Supplemental Warranty

5-Year Packer Body Structural

Curbtender warrants that the structural components of the packer body shall be free from defects in material and workmanship under normal use and service for a period of 5-years. The packer body structural is defined as the packer body and hopper, tailgate and pack panel.

This supplemental Warranty becomes effective after the expiration of the unit warranty. The standard unit Warranty is for 1-year, but extended unit Warranties are available.

To This supplemental Warranty is expressly limited to the repair or replacement, at Curbtender's option, the following body components:

- body walls, roof and floor (Must have optional floor and wall liner kit installed)
- hopper walls and floor (Must have optional floor liner kit installed)
- pack panel (Must have optional nose and face liner kits installed)
- tailgate

NOTE: To validate the packer body structural supplemental warranty, all liner kits identified above must be ordered and installed when the packer body is purchased. Replacement part freight or labor reimbursement for repair and/or troubleshooting is not a component of the supplemental Warranty. In addition, the supplemental Warranty does not cover assembly parts including the follower and rollers, follower track, wear pads, etc. Warranty will not be granted when failure has resulted from abuse, neglect, improper operation or lack of preventative or scheduled maintenance.

THE WARRANTY SET FORTH HEREIN IS THE SOLE AND EXCLUSIVE WARRANTY BEING GIVEN BY CURBTENDER WITH RESPECT TO THE POWER ARM. THE REMEDIES PROVIDED IN THIS WARRANTY ARE THE EXCLUSIVE REMEDIES AVAILABLE AND ARE LIMITED TO REPAIR OR REPLACEMENT OF THE NONCONFORMING PARTS.

THIS WARRANTY IS CONTINGENT UPON AND APPLICABLE ONLY IF THE CURRENT CURBTENDER WARRANTY POLICY AND PROCEDURES ARE COMPLIED WITH. THIS INCLUDES A WARRANTY REGISTRATION IS ON FILE FOR THE UNIT AND A WARRANTY REQUEST FORM IS SUBMITTED WITH A VALID SR# AND RGA WHEN APPLICABLE.

THIS SUPPLEMENTAL WARRANTY MUST BE PURCHASED WITH THE UNIT AND CAN NOT BE ADDED LATER.

NO EMPLOYEE OR REPRESENTATIVE OF CURBTENDER IS AUTHORIZED TO MODIFY THIS SUPPLEMENTAL WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY. THIS IS THE SOLE AND EXCLUSIVE WARRANTY OFFERED BY CURBTENDER.



Powerpak Supplemental Warranty

5-Year Power Arm Structural

Curbtender warrants that the structural components of the Power Arm Assembly shall be free from defects in material and workmanship under normal use and service for a period of 5 years or 1,250,000 arm dump cycles, whichever occurs first. The dump cycles are based on the arm cycle count recorded in the packer control system. Normal use and service is defined as an average of 1,000 arm dump cycles per day dumping 100 gallon or smaller carts.

This supplemental Warranty becomes effective after the expiration of the unit warranty. The standard unit Warranty is for 1-year, but extended unit Warranties are available.

This supplemental Warranty is expressly limited to the repair or replacement, at Curbtender's option, the following weldments:

- arm saddle
- inner boom
- outer boom
- gripper support

Replacement part freight or labor reimbursement for repair and/or troubleshooting is not a component of the supplemental Warranty. In addition, the supplemental Warranty does not cover assembly parts including rollers, wear pads, pivot bushings, pins, gripper assemblies, etc. Warranty will not be granted when failure has resulted from abuse, neglect, improper operation or lack of preventative or scheduled maintenance.

THE WARRANTY SET FORTH HEREIN IS THE SOLE AND EXCLUSIVE WARRANTY BEING GIVEN BY CURBTENDER WITH RESPECT TO THE POWER ARM. THE REMEDIES PROVIDED IN THIS WARRANTY ARE THE EXCLUSIVE REMEDIES AVAILABLE AND ARE LIMITED TO REPAIR OR REPLACEMENT OF THE NONCONFORMING PARTS.

THIS WARRANTY IS CONTINGENT UPON AND APPLICABLE ONLY IF THE CURRENT CURBTENDER WARRANTY POLICY AND PROCEDURES ARE COMPLIED WITH. THIS INCLUDES A WARRANTY REGISTRATION IS ON FILE FOR THE UNIT AND A WARRANTY REQUEST FORM IS SUBMITTED WITH A VALID SR# AND RGA WHEN APPLICABLE.

THIS SUPPLEMENTAL WARRANTY MUST BE PURCHASED WITH THE UNIT AND CAN NOT BE ADDED LATER.

NO EMPLOYEE OR REPRESENTATIVE OF CURBTENDER IS AUTHORIZED TO MODIFY THIS SUPPLEMENTAL WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY. THIS IS THE SOLE AND EXCLUSIVE WARRANTY OFFERED BY CURBTENDER.





PowerPak Supplemental Warranty

5-Year Electrical Control System

Curbtender warrants that the packer's electrical control system shall be free from defects in material and workmanship under normal use and service for a period of 5-years. The packer electrical control system is defined as, all electrical components which are directly involved in the control and operation of the Curbtender packer body.

This supplemental Warranty becomes effective after the expiration of the unit warranty. The standard unit Warranty is for 1-year, but extended unit Warranties are available.

This supplemental Warranty is expressly limited to the repair or replacement, at Curbtender's option, the following electrical components:

- proximity sensors
- smart switches
- I/O modules
- controllers
- control displays
- joystick
- electrical harnesses
- etc.

Replacement part freight or labor reimbursement for repair and/or troubleshooting is not a component of the supplemental Warranty. In addition, the supplemental Warranty does not cover vendor accessories including but not limited to cameras and camera displays. Warranty will not be granted when failure has resulted from abuse, neglect, improper operation or lack of preventative or scheduled maintenance.

THE WARRANTY SET FORTH HEREIN IS THE SOLE AND EXCLUSIVE WARRANTY BEING GIVEN BY CURBTENDER WITH RESPECT TO THE ELECTRICAL SYSTEM. THE REMEDIES PROVIDED IN THIS WARRANTY ARE THE EXCLUSIVE REMEDIES AVAILABLE AND ARE LIMITED TO REPAIR OR REPLACEMENT OF THE NONCONFORMING PARTS.

THIS WARRANTY IS CONTINGENT UPON AND APPLICABLE ONLY IF THE CURRENT CURBTENDER WARRANTY POLICY AND PROCEDURES ARE COMPLIED WITH. THIS INCLUDES A WARRANTY REGISTRATION IS ON FILE FOR THE UNIT AND A WARRANTY REQUEST FORM IS SUBMITTED WITH A VALID SR# AND RGA WHEN APPLICABLE.

THIS SUPPLEMENTAL WARRANTY MUST BE PURCHASED WITH THE UNIT AND CAN NOT BE ADDED LATER.

NO EMPLOYEE OR REPRESENTATIVE OF CURBTENDER IS AUTHORIZED TO MODIFY THIS SUPPLEMENTAL WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY. THIS IS THE SOLE AND EXCLUSIVE WARRANTY OFFERED BY CURBTENDER.

GENERAL BIDDING GUIDELINES

If bid specification is met then place a check in the column marked "YES". If it is necessary to bid alternate equipment or to take exceptions to the specifications as set forth, this must be checked as "NO"

The Basis of Award shall be dependent on the most responsible bid submitted. Consideration will be given to cash flow, purchase price, delivery dates, equipment service guarantees, parts and service availability, parts and service location, analyses and comparison of equipment specification details, and any other items of concern to the City of Laurel.

The purchaser reserves the right to reject any or all bids, to waive any informality in bids, or to accept in whole or part such a bid as may be deemed in the best interest of the City of Laurel.

The purchaser also reserves the right to reject the vehicle at time of final inspection if the vehicle does not meet any and/or all requirements of the final contract according to the personnel acting on behalf of the department at the time of final inspection. These requirements include, but are not limited to: performance, workmanship, service, quality and operation of the vehicle.

Please state the estimated delivery time after receipt of order in days: 180 days

CHASSIS SPECIFICATION

MARK YES OR NO IF COMPLIANT OR NOT

<u>ITEM DESCRIPTION</u>	YES	NO
SINGLE RIGHT HAND DRIVE STEEL CAB	X	
CUMMINS 350HP ISX12 1450 FT-LB TORQUE	X	
2 POSITION C BRAKE BY JACOBS	X	
AUDIBLE & VISUAL ALARM/LOP, HT, LWL		X
RACOR 4120R10 FILTER W/ H2O PROBE & 12V ELEC HEAT		Dawco
PHILLIPS 120V 1500W BLOCK HEATER	X	
HEATER RECEPTACLE LOCATED IN RH CAB STEPS	X	
1300 SQ. IN. SOLID ALUMINUM RADIATOR (NO PLASTIC TANK ENDS)	X	
2-SPEED ENGINE FAN	X	
EXTENDED LIFE COOLANT	X	
STEEL COOLANT SURGE TANK W/SIGHT GLASS		Plastic
16" TWO STAGE AIR CLEANER		X
BLACK, HOOD TYPE ENGINE AIR INTAKE	X	
HORZ DPF W/ LH VERTICAL SCR	X	
DPF & SCR SHIELDS	X	
VERTICAL SINGLE EXHAUST DIFFUSER STAINLESS STEEL	X	
OVER-FENDER MTD., RH SIDE, 10 GAL. CAPACITY UREA TANK		7.4 gallon
ALUM TURBO/EXHAUST PIPE DEBRIS SHIELD	X	

STEEL BATTER BOX AND LID		Aluminum
3 GROUP 31ECL 12V 2250CCA BATTERIES	X	
BATTERY SHUTOFF SWITCH W/ LOCKOUT	X	
BENDIX DV-2 AUTOMATIC WET TANK DRAIN WITH HEATER	X	
CENTRAL MANIFOLD W/ PETCOCKS	X	
BENDIX ADIP AIR DRYER W/HEAT	X	
SINGLE SELF CLEANING CAB ENTRANCE STEP	X	
STEEL CAB WITH REAR CORNER CURVED WINDOWS FOR VISIBILITY		Aluminum
RUGGED STEEL CAB DOORS		Aluminum
L.H. & R.H. DOOR CHECK STRAPS FOR WIND	X	
DUAL INTERNAL REGULATOR POWER WINDOWS	X	
SINGLE PANE REMOTE CONTROL MIRRORS W/ HEAT	X	
RETRACTABLE MIRROR ARMS		X
SINGLE DOWN VIEW MIRROR, LH SIDE	X	
BRUSHED SS EXTERIOR GRAB HANDLES	X	
TWIN AIR HORNS MOUNTED UNDER CAB	X	
SINGLE ELECTRIC HORN	X	
HYDRAULIC TILT CAB WITH AIR ASSIST	X	
BUG SCREEN MOUNTED BEHIND GRILLE	X	
IMPACT RESISTANT FRONT POLYFENDER	X	X
16" DIA. STEERING WHEEL, 2 SPOKE	X	
TILT AND TELESCOPIC STEERING COLUMN	X	
SEARS C2 AIR RIDE DRIVERS SEAT	X	
SEARS C2 FIXED PASSENGER SEAT		Air Rides
MODURA SEAT COVERS, ASPHALT COLOR		X
ALUMINUM DIAMOND PLATE FLOOR ON DRIVERS SIDE	X	
ASHTRAY MTD IN CONSOLE W/ 12V CIGAR LIGHTER	X	
INTEGRAL HVAC WITH ROOF MOUNTED A/C CONDENSER		Radiators Mounted
VOLTAGE AND OIL PRESSURE INCLUDED IN VEHICLE DISPLAY	X	
ELECTRONIC TACHOMETER	X	
HOURMETER INCLUDED IN ON BOARD DISPLAY	X	
GRADUATED, AIR CLEANER MOUNTED AIR INTAKE RESTRICTION INDICATOR	X	
OEM MOUNTED ELECTRONIC PTO CONTROL SWITCH	X	
ELECTRONIC FUEL LEVEL	X	
LED HEADLAMPS	X	
LED FRONT TURN SIGNALS	X	
SELF-CANCELING TURN SIGNALS	X	
AMBER LED ROOF MARKERS	X	
DAYTIME RUNNING LAMPS	X	
AM/FM RADIO MOUNTED IN OVERHEAD CONSOL	X	
ANTENNA - ROOF MOUNTED	X	
2 DUAL CONE SPEAKERS		X
RADIO SHUT-OFF IN REVERSE		X
DRY TYPE ABC 5LB. CAP MTD. IN CAB UNDER SEAT	X	
22.5x9.0" STEEL HP, 5.25" INSET, 5HH FRONT WHEELS	X	
MICHELIN 315/80R22.5L XZY-3 FRONT TIRES		X work Z
22.5X8.25" STEEL HP, 5HH REAR WHEELS	X	
MICHELIN 11R22.5H XDE M/S REAR TIRES		X Mulk D
22.5X8.25" STEEL, HP, 6.18" INSET, 5HH TAG AXLE WHEELS	X	
MICHELIN 11R22.5H XZY-3 TAG AXLE TIRES		XZE
STANDARD WHITE DPSS-N0007EX CAB PAINT	X	
1 YEAR CHASSIS WARRANTY	X	
5 YEAR EXTENDED ALLISON TRANSMISSION WARRANTY	X	
5YRS/300K MILES EXTENDED CUMMINS WARRANTY PP2	X	

5YRS/300K MILES EXTENDED CUMMINS AFTERTREATMENT WARRANTY
 DELL LATITUDE 3570 LAPTOP COMPUTER W/ 2016 MICROSOFT OFFICE
 DATALINK ADAPTOR TO HOOK TO CHASSIS
 CUMMINS SOFTWARE LOADED ON LAPTOP FOR READING CODES
 BENDIX SOFTWARE LOADED ON LAPTOP FOR READING CODES
 OEM TECHNICAL CALL CENTER FOR CUSTOMER AVAILABLE 24 / 7
 MADE IN THE USA

X	
X	
X	
X	
	X
	X
v	X

Automated Side Loader Refuse Compactor

INTENT:

These specifications describe a refuse collection body equipped with a mechanical device designed to handle a variety of plastic refuse containers [or specify sizes and types of containers to be handled]. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and unloading the load by means of hydraulically raising the tailgate and then ejecting the refuse without raising the body.

GENERAL TERMS:

All equipment furnished under this contract shall be new, 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. Unit shall conform to the best practice known to the body trade in design, quality of material and workmanship. Assemblies and component parts shall be standard and interchangeable throughout the entire quantity of the units as specified in this invitation to bid. The equipment furnished shall conform to current ANSI Safety Standard Z 245.1

The bidder shall complete every space in the Bidders Proposal column with a check mark to indicate if the item being bid is exactly as specified. If any check marks are placed in the "NO" column, a detailed and complete description of the deviation from specification must be supplied on a separate sheet labeled, "Deviations from Specifications".

A. BODY CAPACITY AND DIMENSIONS:

1. The body shall be brake-form radiused "Chiseled" rounded to permit a maximum capacity.
2. The minimum capacity of the body including tailgate shall be, excluding hopper area: **[Specify: 20, 24, 27 or 31 cu. yd.]**
3. The hopper capacity shall be 4 cu. yd.
4. The inside hopper width at front shall be 70"

Exactly as Specified
YES NO OFFERED

5YRS/300K MILES EXTENDED CUMMINS AFTERTREATMENT WARRANTY
 DELL LATITUDE 3570 LAPTOP COMPUTER W/ 2016 MICROSOFT OFFICE
 DATALINK ADAPTOR TO HOOK TO CHASSIS
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_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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Exactly as Specified		
<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
<u>X</u>	_____	_____
<u>X</u>	_____	<u>31 yd</u>
<u>X</u>	_____	_____
<u>X</u>	_____	_____

A. BODY CAPACITY AND DIMENSIONS: (cont'd)

Exactly as Specified
YES NO OFFERED

- | | | | | |
|-----|---|----------|-------|-------|
| 5. | The inside body width at rear shall be 90" | <u>X</u> | _____ | _____ |
| 6. | The outside body width shall be 96" (Across rear post) | <u>X</u> | _____ | _____ |
| 7. | The outside body width shall be 98" (Fenders) | <u>X</u> | _____ | _____ |
| 8. | The outside body width shall be 101" (Hose guards) | <u>X</u> | _____ | _____ |
| 9. | The outside body height above chassis frame shall be: 98" | <u>X</u> | _____ | _____ |
| 10. | The inside body height shall be: 89.81" | <u>X</u> | _____ | _____ |
| 11. | The overall body length including hopper shall be: | | | |
| | 20 cu. yd. Capacity Body - 210" | _____ | _____ | _____ |
| | 24 cu. yd. Capacity Body - 234" | _____ | _____ | _____ |
| | 27 cu. yd. Capacity Body - 258" | _____ | _____ | _____ |
| | 31 cu. yd. Capacity Body - 282" | <u>X</u> | _____ | _____ |
| 12. | The overall body length including hopper and lift arm shall be: | | | |
| | 20 cu. yd. Capacity Body - 230" | _____ | _____ | _____ |
| | 24 cu. yd. Capacity Body - 254" | _____ | _____ | _____ |
| | 27 cu. yd. Capacity Body - 278" | _____ | _____ | _____ |
| | 31 cu. yd. Capacity Body - 302" | <u>X</u> | _____ | _____ |

B. BODY CONSTRUCTION:

- | | | | | |
|----|---|----------|-------|-------|
| 1. | The body shall have a brake-formed radius design. | <u>X</u> | _____ | _____ |
| 2. | The body floor shall be flat. | <u>X</u> | _____ | _____ |
| 3. | The body floor thickness shall be 3/16" Hardox 450 | <u>X</u> | _____ | _____ |
| 4. | The body long sills shall be 6" @ 10.5 lb/ft structural channel. | <u>X</u> | _____ | _____ |
| 5. | The body floor reinforcements shall be 1/4" ASTM A-715 GR 50 formed steel members. | <u>X</u> | _____ | _____ |
| 6. | The body sides and roof shall have a brake-formed radius design providing superior structural strength to weight ratio. | <u>X</u> | _____ | _____ |
| 7. | The body sides shall be formed from a one piece panel with no vertical weld seams. | <u>X</u> | _____ | _____ |

B. BODY CONSTRUCTION: (cont'd)

Exactly as Specified
YES NO OFFERED

- | | | | | |
|-----|---|----------|-------|-------|
| 8. | The body sides and roof steel grade shall be 10 ga ASTM A1011 grade 80. | <u>X</u> | _____ | _____ |
| 9. | Front perimeter of the body will incorporate a formed angle 4-7/8" x 3-7/8" x 10 ga ASTM A-715 GR 50 internal bolster. | <u>X</u> | _____ | _____ |
| 10. | Rear perimeter of the body will incorporate an external 4" x 3-1/2" 7ga ASTM A715 GR 50 formed bolster. | <u>X</u> | _____ | _____ |
| 11. | A 10ga ASTM A715 GR 50 6" x 2-7/8" external crown rail shall form the transition from the single piece side sheet to the roof of the body. | <u>X</u> | _____ | _____ |
| 12. | Roof reinforcement shall incorporate a full length 4" x 2" x 1/4" ASTM A500 GR b rectangle tube. | <u>X</u> | _____ | _____ |
| 13. | The body fenders shall be light weight material to reduce overall weight. | <u>X</u> | _____ | _____ |
| 14. | Steel inner fender rub rail thickness shall be 3/16 Hardox 450. | <u>X</u> | _____ | _____ |
| 15. | The body shall include a bolt-on rear under ride guard as standard equipment to meet Federal Motor Carrier Safety Regulation (49CFR393.86) Safety Reg., 49CFR393.86, TTMA RP No 41-02, and SAE J682, Oct84. | <u>X</u> | _____ | _____ |

C. HOPPER CONSTRUCTION:

- | | | | | |
|----|--|----------|-------|-------|
| 1. | The hopper shall have a minimum static capacity of 4 cubic yards. | <u>X</u> | _____ | _____ |
| 2. | The hopper shall have a minimum dynamic capacity (displacement rate) of 10.5 cubic yards per minute. | <u>X</u> | _____ | _____ |
| 3. | The hopper floor must include a 1/8" Hardox 450 liner that extends into the body an additional 38". | <u>X</u> | _____ | _____ |
| 4. | The hopper floor steel grade shall be: AR450 Hardox, and be 3/16" thick | <u>X</u> | _____ | _____ |
| 5. | The hopper side walls steel grade shall be: AR450 Hardox and be 3/16" thick. | <u>X</u> | _____ | _____ |
| 6. | A hopper access door shall be provided above the packing panel on the street side of the body to permit access into the hopper area. | <u>X</u> | _____ | _____ |

C. HOPPER CONSTRUCTION: (cont'd)

Exactly as Specified
YES NO OFFERED

- | | | | | |
|-----|--|----------|-------|-------|
| 7. | The hopper access door shall be equipped with a safety interlock switch to disable all functions if the access door is opened. | <u>X</u> | _____ | _____ |
| 8. | The hopper access door dimensions shall be: 28" X 32", thickness shall be 11 ga ASTM A-715 GR 50. | <u>X</u> | _____ | _____ |
| 9. | A hopper ladder with grab handles shall be located on the streetside of the hopper. | <u>X</u> | _____ | _____ |
| 10. | The hopper ladder shall be bolted on to the hopper. | <u>X</u> | _____ | _____ |
| 11. | The ladder must have an OSHA Standard 7" toe spacing between the ladder rung and the side of the hopper. | <u>X</u> | _____ | _____ |
| 12. | A transverse sump shall extend the full width of the front hopper. | <u>X</u> | _____ | _____ |
| 13. | Two (2) 14" x 20" sealed sump access doors equipped with handles and quick acting over center toggle latches shall facilitate clean out of the sump. | <u>X</u> | _____ | _____ |
| 14. | A clean-out tool option shall be provided to facilitate easy removal of any accumulated debris from the hopper sump area. | <u>X</u> | _____ | _____ |
| 15. | A holder shall be provided on the body side to secure the clean out tool in a stored position. | <u>X</u> | _____ | _____ |
| 16. | The hopper shall have optional plastic gull wing hopper covers to enclose the hopper during transport. | <u>X</u> | _____ | _____ |
| 17. | The hopper cover shall be opened/closed by a single manual control lever located on the right hand side of the hopper wall. An optional in cab controlled, air operated version is also available. | <u>X</u> | _____ | _____ |
| 18. | The hopper cover must have an interlock eliminating the ability to dump a container if the hopper cover is closed. | <u>X</u> | _____ | _____ |
| 19. | Interior hopper side sheet shall extend into the body with no welds at the hopper to body transition. | <u>X</u> | _____ | _____ |

D. PACKING MECHANISM:

- | | | | | |
|----|---|----------|-------|-------|
| 1. | Must have a manual super pack operation that allows the panel to extend into the body to clear debris from the hopper area. | <u>X</u> | _____ | _____ |
|----|---|----------|-------|-------|

D. PACKING MECHANISM: (cont'd)

		Exactly as Specified		
		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
2.	Packer hydraulic control must utilize a regeneration circuit and include manual overrides for maintenance and repair functions.	<u>X</u>	_____	_____
3.	The packing panel shall be 33" high X 70" wide	<u>X</u>	_____	_____
4.	A single, centrally mounted, pack cylinder shall generate 83,000 lbs of packing force. Two cylinder and/or continuous packing mechanisms are not acceptable.	<u>X</u>	_____	_____
5.	The packer shall be a platen type design, integral with body.	<u>X</u>	_____	_____
6.	The packing panel shall complete an auto pack cycle in a maximum of 13 seconds @ 800 RPM.	<u>X</u>	_____	_____
7.	Packing panel top thickness shall be ¼" ASTM A-715 GR 50.	<u>X</u>	_____	_____
8.	Packing panel face plate thickness shall be 3/8" ASTM A-715 GR 50.	<u>X</u>	_____	_____
9.	Packing panel shall be reinforced with a combination of structural members for maximum rigidity.	<u>X</u>	_____	_____
10.	The packing panel shall be guided by a single self-cleaning "T" rail located in the center of the body.	<u>X</u>	_____	_____
11.	"T" Rail steel and thickness shall be: ½", AR450 Hardox ultra high-strength, high abrasion resistant steel plate	<u>X</u>	_____	_____
12.	Packing panel wear shoes thickness shall be ¼" AR450 Hardox	<u>X</u>	_____	_____
13.	The packing mechanism shall use a single, double-acting telescopic cylinder will be supported by self-aligning bearings on each end. These will be 3-stage for 16, 20, 24 and 27 yard units.	<u>X</u>	_____	_____
14.	Cylinder shall be centrally mounted above the hopper floor.	<u>X</u>	_____	_____
15.	Cylinder bore diameter shall be 6 ½"	<u>X</u>	_____	_____
16.	The main cylinder sleeve shall be induction hardened and chrome plated.	<u>X</u>	_____	_____

D. PACKING MECHANISM: (cont'd)

Exactly as Specified
YES NO OFFERED

- | | | | | |
|-----|--|----------|-------|-------|
| 17. | All Stages of the sleeves must have metallic scrapers to protect from internal contamination and damage. | <u>X</u> | _____ | _____ |
| 18. | The first stage of the cylinder shall have a 64" stroke. | <u>X</u> | _____ | _____ |
| 19. | The cylinder full eject stroke shall be: | | | |
| | 20 cu. Yd. Capacity Body – 3 stage with a stroke of 133.50" | _____ | _____ | _____ |
| | 24 cu. Yd. Capacity Body – 3 stage with a stroke of 157.50" | _____ | _____ | _____ |
| | 27 cu. Yd. Capacity Body – 3 stage with a stroke of 181.50" | _____ | _____ | _____ |
| | 31 cu. Yd. Capacity Body – 4 stage with a stroke of 205.50" | <u>X</u> | _____ | _____ |
| | | <u>X</u> | _____ | _____ |
| 20. | Maximum operation pressure shall be 3000 psi | <u>X</u> | _____ | _____ |
| 21. | Inside width of packing panel shall be 70" | <u>X</u> | _____ | _____ |
| 22. | Inside height of packing panel shall be 33" | <u>X</u> | _____ | _____ |
| 23. | The automatic packing cycle stroke shall be 52" | <u>X</u> | _____ | _____ |
| 24. | Packing panel swept volume shall be 4 cu. yd. | | | |

*Swept volume 2 1/2
Hopper Volume 4 yd*

E. FULL EJECT - PUSH OUT:

- | | | | | |
|----|--|----------|-------|-------|
| 1. | The pack/eject panel shall be capable of a complete extend/retract cycle in less than 30 seconds. | <u>X</u> | _____ | _____ |
| 2. | All eject controls shall be operated from inside the cab. | <u>X</u> | _____ | _____ |
| 3. | The pack/eject panel shall not be capable of extending into the body during an auto pack cycle with the tailgate closed. | <u>X</u> | _____ | _____ |
| 4. | A lockout system shall be supplied to allow the ejector panel to enter the ejection mode only with the tailgate is in the open position. | <u>X</u> | _____ | _____ |
| 5. | A lockout system shall be supplied to require the ejector panel is in the home position before the tailgate can be lowered. | <u>X</u> | _____ | _____ |

F. TAILGATE:

- | | | | | |
|----|---|----------|-------|-------|
| 1. | The tailgate shall be hydraulically operated, top hinged bustle type. | <u>X</u> | _____ | _____ |
|----|---|----------|-------|-------|

F. TAILGATE: (cont'd)

		Exactly as Specified		
		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
2.	The tailgate shall automatically lock and unlock without the use of additional locking cylinders, cables or manual turnbuckles.	X	_____	_____
3.	The tailgate must use the operating system to remain closed and pressurized in the locked position without the use of any external control blocks or devices.	X	_____	_____
4.	The tailgate locking mechanism shall utilize a progressive inverted cam roller design.	X	_____	_____
5.	Tailgate thickness shall be 10 ga ASTM A-715 GR 50.	X	_____	_____
6.	The tailgate latch roller shall be fully supported by a horizontal bolster around the lower perimeter of the tailgate.	X	_____	_____
7.	The tailgate shall be operated by 2 cylinders	X	_____	_____
8.	Tailgate cylinders shall be chrome plated rod with 1 1/2" diameter and 3" bore diameter.	X	_____	_____
9.	Tailgate cylinder stroke shall be 36-1/2"	X	_____	_____
10.	Tailgate cycle time at idle shall be 30 sec	X	_____	_____
11.	The tailgate side sheets will have an integral rolled flange that overlaps the perimeter of the rear tailgate sheet	X	_____	_____
12.	A rubber seal shall be installed on the tailgate and extend across the entire bottom and vertically up each side a minimum of 60".	X	_____	_____
13.	A cab mounted light and audible alarm shall be provided to indicate that the tailgate is unlocked.	X	_____	_____
14.	The tailgate raise control shall include a delayed action to guard against accidental activation.	X	_____	_____
15.	Self-contained horizontal tailgate maintenance safety props shall be provided.	X	_____	_____
16.	The tailgate shall have a wire harness with Deutsch IP 69K connectors between the body and the tailgate to isolate the tailgate wiring from the body.	X	_____	_____

G. AUTOMATED LIFTING MECHANISM:

Exactly as Specified
YES NO OFFERED

- | | | | | |
|-----|---|----------|-------|-------|
| 1. | The Lifting Arm mechanism shall be capable of operating simultaneously during any phase of packing operations with full force and flow. | <u>X</u> | _____ | _____ |
| 2. | Lift arm shall be mounted directly to the chassis frame rail. Tip to Dump units with the lift arm mounted to the body are not acceptable. | <u>X</u> | _____ | _____ |
| 3. | The lift arm lower base weldment shall straddle both chassis frame rails and be secured to its mounting brackets with four 1" grade eight bolts. | <u>X</u> | _____ | _____ |
| 4. | The lower base weldment shall be fully constructed of 1/4" ASTM A715 GR 50 steel. | <u>X</u> | _____ | _____ |
| 5. | Arm must utilize hardened spherical self-aligning bushings at dump pivot, tapered roller bearings at gripper pivots. | <u>X</u> | _____ | _____ |
| 6. | Arm must have an automatic container shake feature that allows the inner boom to short stroke to be effective and easy on the arm assembly. | <u>X</u> | _____ | _____ |
| 7. | The Lifting Arm mechanism must have a lifting capacity of 1,750 pounds at full extension, and 2,000 pounds retracted. | <u>X</u> | _____ | _____ |
| 8. | The Lifting Arm mechanism must have no more than a 15" kick out through the entire arc of the container lift. | <u>X</u> | _____ | _____ |
| 9. | The Lifting Arm mechanism must be within the 96" road limit in the travel position with the grippers in the full lowered position and opened/home position. | <u>X</u> | _____ | _____ |
| 10. | No portion of the lift mechanism shall have less than 13 inches of ground clearance in the stowed position. | <u>X</u> | _____ | _____ |
| 11. | Lift Arm extension from the side of the body must be horizontal in a linear fashion. No swinging or arching of the lift arm is permitted. | <u>X</u> | _____ | _____ |
| 12. | Lift Arm mechanism shall have a reach of 84" from the side of the body to the centerline of a 90-gallon container. | <u>X</u> | _____ | _____ |
| 13. | Lift Arm mechanism shall be capable of grasping a container located 6" from the side of the body. | <u>X</u> | _____ | _____ |

G. AUTOMATED LIFTING MECHANISM (cont'd)

		Exactly as Specified		
		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
14.	Vertical dump height shall not exceed 120" above truck frame while dumping a 90-gallon container.	<u>X</u>	_____	_____
15.	Container dump angle shall be a minimum of 45 degrees to insure complete dumping of container's contents.	<u>X</u>	_____	_____
16.	Lifting mechanism shall be capable of a complete cycle, which includes Grip-Lift-Dump-Un-dump-Lower and Un-grip in a maximum of 8 seconds including proportional cushioning..	<u>X</u>	_____	_____
17.	The Lifting Arm must be constructed utilizing an Inner and Outer Arm assembly.	<u>X</u>	_____	_____
18.	The inner Arm assembly shall be 8" x 6" x 3/16" fabricated rectangular box constructed of ASTM-A-500 Grade B.	<u>X</u>	_____	_____
19.	The outer Arm assembly shall be 10" x 8" x 3/8" fabricated rectangular box constructed of ASTM-A-500 Grade B.	<u>X</u>	_____	_____
20.	The inner arm assembly shall include upper and lower 3/8" AR450 Hardox roller bearing tracks.	<u>X</u>	_____	_____
21.	The inner arm assembly shall glide in and out on six (6) 4" roller bearing and (4) plastic slide blocks to guide inner arm.	<u>X</u>	_____	_____
22.	Roller bearings shall rotate on a eccentric pin roller adjustment to allow compensation for wear and maintain the grippers parallel with the ground. The tunion will allow the rollers to have full contact with the inner arm tracks.	<u>X</u>	_____	_____
23.	Inner and Outer Arm pivot pins shall be 2" C1045 turn ground, heat-treated and polished pins held with 2" self-aligning spherical bearings.	<u>X</u>	_____	_____
24.	Lift Arm must have a safety interlock to restrict dumping unless the container is positioned over the hopper opening.	<u>X</u>	_____	_____
25.	Lift Arm hydraulics shall be controlled by a 4-spool sectional valve equipped with hydraulic pilot actuators for proportional spool positioning.	<u>X</u>	_____	_____
26.	Standard joystick lift function controls shall be proportional electric over pilot operated hydraulic spools.	<u>X</u>	_____	_____
27.	Solid state linear prox bar for boom angle and ultrasonic sensor for boom in/out.	<u>X</u>	_____	_____

G. AUTOMATED LIFTING MECHANISM: (cont'd)

Exactly as Specified
YES NO OFFERED

- | | | | | |
|-----|--|----------|------------------------|-------|
| 28. | Dump and grip cylinders shall include internal linear position sensors to provide position feedback to the control system. | <u>X</u> | _____ | _____ |
| 26. | Use of standard proximity switches for arm sensing shall not be acceptable. | <u>X</u> | _____ | _____ |
| 27. | Arm must be equipped with an air actuated boom safety latch that keeps the inner boom locked in the home position when not in use. | <u>X</u> | _____ | _____ |
| 28. | No air operation or controls may be used in the operation of the arm except for arm safety latch operation. | <u>X</u> | _____ | _____ |
| 29. | Joystick shall be conveniently located to the left of the operator. | <u>X</u> | _____ | _____ |
| 30. | Joystick must be can-bus multi-functional operation for all standard arm functions; including auto-grip-un-grip, packer function, work lights, container shake feature,. Selectable dead man function. | <u>X</u> | _____ | _____ |
| 31. | An ergonomically designed padded armrest shall be provided to support the operator's arm during joystick operation. | <u>X</u> | _____ | _____ |
| 32. | Two (2) additional control options shall be provided for the operator;
Additional controls shall consist of a three (3) rocker switch console located on the right hand window sill to allow activation by the operator's right hand and a three (3) rocker switch console with dead-man control located at the side of the operator's seat to be activated if the operator is standing outside of the cab. | <u>X</u> | <u>SEE option page</u> | _____ |
| 33. | An Automated Dump Cycle "Coordinator" option shall be provided. | <u>X</u> | <u>SEE option page</u> | _____ |
| 34. | "Coordinator" shall allow the operator to manually reach and grip a container, continued contact on arm lift switch shall cause the container to be raised, dumped, and lowered to the side of the vehicle, un-gripped and the arm returned to the stowed/home position. | <u>X</u> | _____ | _____ |

G. AUTOMATED LIFTING MECHANISM: (cont'd)

Exactly as Specified
YES NO OFFERED

35. The Lifting Arm must utilize four (4) hydraulic cylinders.
 Cylinders shall include:

- Reach (In-Out) 1-3/4" bore x 66" stroke
- Lift (Arm Up-Down) 2-1/4" bore x 26" stroke
- Dump (Cart Dump/Un-dump) 2 1/2" bore x 10" stroke
- Grab (Grip/Release) 2 1/2" bore x 8 1/2" stroke

<u>X</u>	_____	_____

H. GRIPPERS:

For Steel Grippers 30-110 Gallon Containers

NA

1. Grip/Release shall be actuated by a single, double-acting 2-1/2" bore X 8-1/2" stroke hydraulic cylinder with internal positioning sensor.
2. Gripper pivots shall incorporate receiver pockets to allow gripper assemblies to be easily interchangeable.
3. Gripper pivot shafts shall be machined from SAE41L42 quenched and tempered cold drawn steel shafting.
4. Gripper pivots shall pivot on tapered roller bearings.
5. Gripper gears shall be constructed from 1" thick AR500 material.
6. An infinitely adjustable pressure valve shall control the grip pressure/radial force; Switch will be located on the control console.
7. Gripper shall be capable of handling 30 – 110 gallon containers designed for automated collection.
8. Grippers shall have UHMW polyethylene rollers at the tip to protect and assist in grasping the container.

<u>X</u>	_____	_____

For Belt Grippers 30-110 Gallon Containers

NA

9. Gripper shall be capable of handling 30-110 gallon containers designed for automated collection.
10. Gripper shall have a stationary inner arm and a pivoting outer arm.
11. The pivoting outer arm shall provide tension using tensional springs.

<u>X</u>	_____	_____
<u>X</u>	_____	_____
<u>X</u>	_____	_____

For Belt Grippers 30-110 Gallon Containers: (cont'd)

Exactly as Specified
YES NO OFFERED

- | | | | | |
|-----|---|----------|-------|-------|
| 12. | Gripper shall have a belt 4" wide and connected on each end with three bolts. | <u>X</u> | _____ | _____ |
| 13. | Grippers shall pivot on adjustable tapered roller bearings. | <u>X</u> | _____ | _____ |
| 14. | Grippers shall have UHMW polyethylene rollers at the tip to protect and assist in grasping the container. | <u>X</u> | _____ | _____ |

Universal Grippers

PLEASE CHOOSE

- | | | | | |
|-----|---|----------|-------|-------|
| 15. | The gripper shall be capable of grasping and dumping containers with capacities from 40-450 gallons without the need to change grippers. | <u>X</u> | _____ | _____ |
| 16. | The grippers shall exert an appropriate radial force on each size container to firmly grip the container without dropping, damaging or contorting. This force shall be controlled by a switch on the control panel. | <u>X</u> | _____ | _____ |

I. Electronic Proportional Control System (EPC):

- | | | | | |
|----|--|----------|-------|-------|
| 1. | An electronic proportional control system shall be provided that will give the operator the ability to "feather" the automated lifting mechanism when gripping/un-gripping, extending/retracting, raising/lowering. Dumping/un-dumping the containers. (No Exceptions) | <u>X</u> | _____ | _____ |
| 2. | The automated lifting mechanism shall be controlled by an electronic operated hydraulic directional control valve. The valve shall respond to proportional outputs (PWM signals) from the controller. | <u>X</u> | _____ | _____ |
| 3. | Positive linear sensors shall be incorporated into the system to provide feedback of the position of the lift arm while raising, dumping and gripping the containers. | <u>X</u> | _____ | _____ |
| 4. | The system shall consist of multiple electrical components multiplexed together using a SAE J1939 Canbus to provide a complete and expandable system. | <u>X</u> | _____ | _____ |
| 5. | Must have a separate Canbus to communicate with the engine and transmission. | <u>X</u> | _____ | _____ |
| 6. | Must have an engine monitoring system to protect from over torqueing or stalling the engine in high load operations. | <u>X</u> | _____ | _____ |

I. CONTROLS: (Cont'd)

Exactly as Specified
YES NO OFFERED

- | | | |
|-----|---|----------------|
| 7. | A controller designed for mobile equipment with multiple digital and analog inputs and outputs shall be mounted near the main automated lifting mechanism hydraulic control valve. | <u>X</u> _____ |
| 8. | Remote I/O modules shall communicate through the Canbus to provide for the inputs and outputs not directly connected to the main controller. | <u>X</u> _____ |
| 9. | A color display will be provided in the cab convenient to the operator. The display will feature a function key driven menu system to access system functions. | <u>X</u> _____ |
| 10. | The joystick will also include four momentary switches for frequently used functions including pack start, container shake, work lights and Auto grip/un-grip. | <u>X</u> _____ |
| 11. | A multifunctional joystick shall be provided. It will include two proportional "axis" for extending and retracting the lift mechanism, raising and lowering the lift mechanism and a proportional rocker for closing and releasing the grippers. | <u>X</u> _____ |
| 12. | The joystick will include a selectable hold-to-run switch to prevent unintentional operation of the control. | <u>X</u> _____ |
| 13. | An optional bank of four rocker switches shall be available to allow lift mechanism operation from the curbside. | <u>X</u> _____ |
| 11. | <p>The menu system will include screens for the following:</p> <ul style="list-style-type: none"> • Factory setup (password protected) so the system can be configured for the user's needs • User setup to allow the user to change how specific features operate. • Input and output diagnostics for trouble shooting the system. • Lights, for turning on and off work and warning lights. • Collection mode grouping the controls needed when picking up containers. • Unloading mode grouping the controls needed when unloading the unit. • Joystick operation showing the function of the joystick. • Data collection showing counts of arm cycles, pack cycles, eject cycles, pump run times and warnings. • System warning messages will display over the operation screen. | <u>X</u> _____ |

J. HYDRAULIC SYSTEM:

Exactly as Specified
YES NO OFFERED

1. Hydraulic pump design must allow all hydraulic flow to be stopped during emergency situations (ex: hose burst) using the E-Stop button. No Exceptions. X SEE L4 OPTIONS
2. Hydraulic pump design must allow truck to be able to drive back to its home base without any harm to the pump and without spilling any fluid after engaging e-stop with no further modifications to the system. (ex: removing pto shaft). No Exceptions. X SEE L4 OPTION
3. An Eaton load sensing, power on demand (POD) hydraulic system featuring a variable displacement tandem piston pump driven by a long-life drive shaft must be used. No Exceptions. X SEE L4 OPTIONS
4. The hydraulic pump shall be driven by chassis transmission PTO, direct mounted off engine crankshaft or a combination of both depending on the chassis limitations. X SEE L4 OPTION
5. Piston pump system must be expected to last the life of the body (5-7 years) when properly maintained. No Exceptions. X SEE L4 OPTION
6. For maximum efficiency the tandem load sense pump shall provide only the flow required for proper operation. X SEE L4 OPTIONS
7. No over-speed control shall be required. No Exceptions. X _____
8. The arm hydraulic control valve must be true pilot operated, proportional post compensated style with manual over-rides for each function. No Exceptions. X _____
9. Hydraulic reservoir shall be a maximum capacity of 40 gallons to reduce overall weight. The reservoir shall include internal baffling to direct the oil flow for maximum heat transfer. X _____
10. A highly efficient light weight non-micro nucleation reservoir must be used, specifically designed to incorporate a suction screen without concerns of micro nucleation. X _____
11. Hydraulic reservoir shall be equipped with a fluid level sight glass and an in cab low level indicator. X _____
12. Hydraulic reservoir shall be equipped with a temperature sender so oil temperature can be monitored in the cab. X _____
13. Hydraulic reservoir shall be located street side and frame mounted. System must be plumbed and sized sufficiently to the pump inlet to assure optimum inlet conditions without the X _____

need for augmented tank pressurization.

J. HYDRAULIC SYSTEM: (Cont'd)

Exactly as Specified
YES NO OFFERED

- | | | | |
|---|----------|-------|-----------------|
| 14. The hydraulic system shall incorporate a full flow 10-micron absolute in-tank return line filter with replaceable element. | <u>X</u> | _____ | _____ |
| 15. The hydraulic system shall incorporate a full flow 10-micron tank breather with replaceable element. | <u>X</u> | _____ | _____ |
| 16. All hydraulic fittings shall be O-ring Face Seal (OFS) or O-Ring Boss (ORB). | <u>X</u> | _____ | _____ |
| 17. All hydraulic components shall be adequately sized and designed to maintain appropriate hydraulic oil temperature. | <u>X</u> | _____ | _____ |
| 18. Maximum hydraulic system pressure for the lift arm and pack circuits shall be 3000 psi. | <u>X</u> | _____ | _____ |
| 19. Hydraulic system must provide arm operation in gear at engine idle speed, RPM not to exceed 800. No Exceptions. | <u>X</u> | _____ | _____ |
| 20. An optional self-contained forced air to oil cooler shall be available to ensure hydraulic oil temperature is regulated in high ambient temperatures as needed for running in extreme environments. | <u>X</u> | _____ | <u>STANDARD</u> |

K. LIGHTS:

- | | | | |
|--|----------|-------|-------|
| 1. L.E.D. stop, tail, clearance and reverse lights shall be provided in accordance with FMVSS#108. | <u>X</u> | _____ | _____ |
| 2. An upper bolt on light bar shall be provided. | <u>X</u> | _____ | _____ |
| 3. Upper light bar shall contain two (2) of each 4" diameter stop/tail/turn lights and 2" diameter clearance and side marker lights. | <u>X</u> | _____ | _____ |
| 4. Lower light bar shall contain two (2) of each 4" diameter stop/tail/turn AND reverse lights. | <u>X</u> | _____ | _____ |
| 5. All lights shall be sealed, lexan covers and have flexible gasket mounting. | <u>X</u> | _____ | _____ |
| 6. Mid-body turn signals shall be provided. | <u>X</u> | _____ | _____ |
| 7. Two Optional L.E.D. (2) work lights shall be available, operated by a single push button switch on the in-cab joystick, one (1) light shall illuminate the hopper and one (1) light shall illuminate the lift arm area. | <u>X</u> | _____ | _____ |

L. ELECTRICAL:

Exactly as Specified
YES NO OFFERED

- | | | | |
|---|----------|-------|-------|
| 1. All electrical wiring shall be in protective looms. | <u>X</u> | _____ | _____ |
| 2. All wiring harnesses shall be Deutsch automotive type connectors meeting IP67 waterproof specification. | <u>X</u> | _____ | _____ |
| 3. The electrical system shall not have junction boxes or terminations that do not use the IP67 specification connectors. | <u>X</u> | _____ | _____ |
| 4. All circuits shall be properly fused and wiring shall be color coded and numbered. | <u>X</u> | _____ | _____ |

M. PAINTING:

- | | | | |
|---|----------|-------|-------|
| 1. The entire unit shall be properly cleaned of all dirt, grease and weld slag prior to painting. | <u>X</u> | _____ | _____ |
| 2. The complete unit shall be painted with DuPont Imron Elite high solids to a minimum of 3.5 mils. | <u>X</u> | _____ | _____ |
| 3. The body shall be painted one color [specify] <u>WHITE</u> | <u>X</u> | _____ | _____ |

N. MANUALS:

- | | | | |
|--|----------|-------|-------|
| 1. One complete set of operators, parts and service manuals to be supplied for each refuse packer. | <u>X</u> | _____ | _____ |
|--|----------|-------|-------|

O. WARRANTY:

- | | | | |
|---|----------|-------|------------------------|
| 1. The bidder shall offer a one (1) year body warranty against defective material or workmanship. | <u>X</u> | _____ | _____ |
| 2. The bidder shall offer a two (2) year warranty on all hydraulic cylinders against defective material or workmanship. | <u>X</u> | _____ | <u>SEE OPTION Page</u> |
| 3. The bidder shall offer a three (3) year warranty on the following products supplied by Eaton Corporation; tandem piston pump, Hydraulic valves and OFS fittings and hoses against defective material or workmanship. | <u>X</u> | _____ | <u>NA SEE G4</u> |
| 4. The bidder shall offer a five (5) year Structural Warranty on the automate arm with no additional cost to the customer. | <u>X</u> | _____ | <u>OPTION PAGE</u> |



Solid Waste Systems.

P.O. Box 13040
 Spokane Valley, WA 99213-3040
 509-533-9000 Fax: 509-533-1050
 1-800-892-7831

QUOTE

Quote #: ROCBQ8053

Date: 11/22/17

Sales Rep: Roger Beatty

Customer No:

Quote To:

City Of Laurel
 Mr. Matt Wheeler
 PO Box 10
 Laurel MT 59044
 (406) 628-4796 Fax: (406) 628-2241

Ship To:

City Of Laurel
 Mr. Matt Wheeler
 PO Box 10
 Laurel MT 59044
 (406) 628-4796

FOB: Billings, MT

Ship Via: BESTWAY

Est. Ship Date: 30-60 days ARC

Terms: Net on Delivery

We are pleased to propose the following for your consideration

Qty	Description	Unit Price	Ext. Price
	Additional available Options		
1	G4 Package: BELOW IS INCLUDED	\$8,800.00	\$8,800.00
1	Standard Features Curved Shell High-Compaction Body Includes Mounting Prime Paint and Hydraulic Fluid ANSI and FMVSS compliant Backup Alarm Simultaneous Load and Pack 1 yr Standard Body Warranty 3 yr Warranty on Eaton pump and valves 3yr Warranty on hose and fittings Automatic Arm Restraint System Micro Nucleation Hydraulic tank Standard 2,000 LB Capacity Power Arm		
1	Standard Features In-Cab Control Panel with Smart Switches and Universal Symbols Electronic Proportional Controls with Diagnostic Readout 10 Micron Absolute Hydraulic Fluid Filtration 2 Pack Cycle counters, one Re-settable one non Re-settable In-Cab Body Packed Out "Power Packing" Indicator Standard L.E.D. Lighting 100% Flat Face Seal Hydraulic Fittings Engine Management SYstem Standard Auto Grip/Ungrip standard Tandem Variable Output Piston Pumps "Coordinator Auto" Arm control standard		
1	Full Eject, (Telescopic cylinder packs and ejects with Body Service Lift Included)		
1	G4 power arm with electronic proportional controls. The G4 power arm utilizes 2 external and 2 internal linear sensors standardv		
1	Joystick main arm control on main console included right hand under seat rocker switches		
1	Hopper Floor Thickness 3/16 hardox 450 high strength steel with 3/16 hardox liner 20" upper hopper wall		

Qty	Description	Unit Price	Ext. Price
1	Hopper Side Thickness 3/16" Hardox 450 Ultra-High Strength Steel		
1	Body Floor Thickness 3/16" AR400 Minimum Ultra-High Strength Steel		
1	Arm out lamp, in cab control		
1	Remote Grease Line to Pack Cylinder Bearing		
1	Operate-at-idle (low RMP high speed arm) 6-8 second cycle time @ 800 RPM		
1	High speed packer (Low RPM)		
1	Tailgate Seal, 60" above floor level		
 RECOMMENDED OPTIONS:			
1	Clean out door extensions	\$286.25	\$286.25
1	Convex Mirror Right Hand Side Top View of Dumping of Cart	\$71.25	\$71.25
1	Convex Mirror Left Hand Side Lower View	\$71.25	\$71.25
1	Service Hoist Installed PLC	\$4,062.50	\$4,062.50
1	Arm Coordinator	\$573.00	\$573.00
1	Body Floor Liner 3/16 Hardox 450 High Strength Steel	\$2,882.35	\$2,882.35
1	Hardox Hopper Liner 3/16 Hardox 450 High Strength Steel	\$1,705.88	\$1,705.88
1	Body Wall Liner (Bottom of Floor up 20" 3/16"X20" Hardox 450	\$470.59	\$470.59
1	110 Volt Hydraulic oil heater	\$808.24	\$808.24
1	Fire Extinguisher W/Bracket 20lb	\$404.71	\$404.71
1	2 Yr Cyl Warranty	\$4,500.00	\$4,500.00
		Order Total	\$24,636.02

PRICES SUBJECT TO CHANGE DUE TO CHANGING STEEL PRICES - THANK YOU!

By: _____ Accepted _____ Date _____

QUOTE VALID FOR 30 DAYS

PAYMENT DUE UPON COMPLETION OF WORK OR AS SPECIFIED ABOVE