

AUTOMATED DROP FRAME 24 CUBIC YARD SIDE-LOADING REFUSE PACKER

07/03/2014

City of Gallatin

1.0 Introduction

The City of Gallatin is seeking bids for **AUTOMATED DROP FRAME 24 CUBIC YARD SIDE LOADING REFUSE PACKER** for the Public Works Department. Bids will be due on July 18th 2014 at 1:30 pm in a sealed envelope clearly marked: **AUTOMATED DROP FRAME 24 CUBIC YARD SIDE LOADING REFUSE PACKER.**

1.1 Scope of Work

The City of Gallatin seeks to purchase an **AUTOMATED DROP FRAME 24 CUBIC YARD SIDE LOADING REFUSE PACKER.**

2.0 Technical Requirements

See Attached Spec Sheet.

3.0 Vendor Requirement

Meet minimum Truck Requirements.

4.0 Evaluation of Proposals

The City of Gallatin will award the contract to lowest responsible and responsive bidder meeting specifications, quality, and performance standards pursuant to the Municipal Purchasing Act of 1983. Response will be based on the following factors;

- Completeness of response
- Cost
- Meeting Truck requirement specs.
- Quality of service
- Quality of product

5.0 Contract Award

The City of Gallatin reserves the right to reject any or all proposals and to waive any informality found therein. The City of Gallatin will award a contract based on evaluations described above. In the event that the lowest bidder is not available at the time of need, the city reserves the right to go with the next lowest bidder.

6.0 Question Submissions

Public Works Office
Attn: Dianna Johnson
641 Long Hollow Pike
Gallatin TN 37066
Telephone: 615-451-5909
Email: dianna.johnson@gallatin-tn.gov

7.0 Proposal Submission

ALL SUBMISSIONS MUST BE SEALED AND CLEARLY MARKED

**AUTOMATED DROP FRAME 24 CUBIC YARD SIDE LOADING
REFUSES PACKER.**

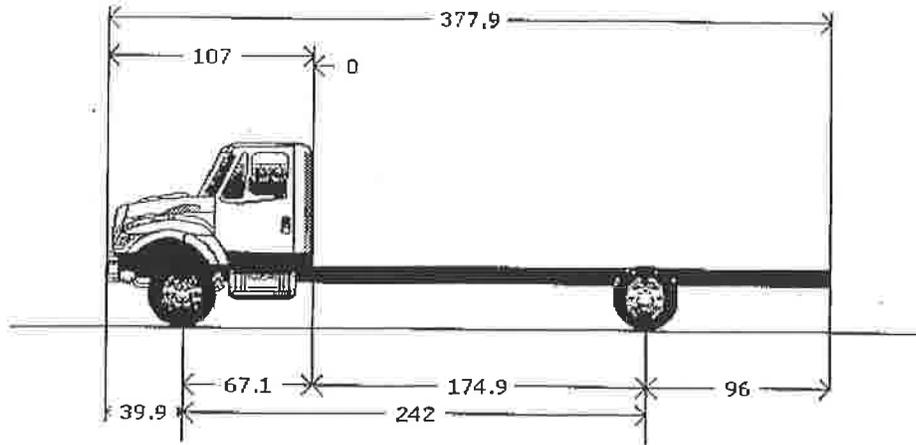
BID DUE DATE: July 18th, 2014, 1:30 pm

Proposals shall be directed to the attention of:
Finance Department
Attn: J.R.Smith, Jr
132 West Main Street
Gallatin, TN 37066
Telephone: 615-451-5963

PRICES

Price for Truck \$ _____

Name of Company: _____
Address: _____
Telephone: _____
Signature: _____
Print Name: _____
Title: _____
Date: _____



Model Profile
2014 7400 SBA 4X2 (SA625)

APPLICATION:	Packer - Manual Slide Loader
MISSION:	Requested GVWR: 42000. Calc. GVWR: 42000 Calc. Start / Grade Ability: 34.44% / 2.23% @ 55 MPH Calc. Geared Speed: 75.5 MPH 8.3 MPG @ 55 MPH
FUEL ECONOMY:	
DIMENSION:	Wheelbase: 242.00, CA: 174.90, Axle to Frame: 96.00
ENGINE, DIESEL:	{MaxxForce 9} EPA 10, 300 HP @ 2000 RPM, 860 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 300 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 3500_RDS_P} 5th Generation Controls; Wide Ratio, 6-Speed, With Double Overdrive; Refuse/Mixer; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 60,000-lb GVW Max.
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Meritor MFS-16-143A} Wide Track, I-Beam Type, 16,000-lb Capacity
AXLE, REAR, SINGLE:	{Dana Spicer S26-190D} Single Reduction, 26,000-lb Capacity, R Wheel Ends, Driver Controlled Locking Differential Gear Ratio: 5.57
CAB:	Conventional
TIRE, FRONT:	(2) 315/80R22.5 XZY-3 (MICHELIN) 486 rev/mile, load range L, 20 ply
TIRE, REAR:	(4) 12R22.5 XZY-3 (MICHELIN) 483 rev/mile, load range H, 16 ply
SUSPENSION, RR, SPRING, SINGLE:	Varl-Rate; 31,000-lb Capacity; Includes (3) Torque Rods
FRAME REINFORCEMENT:	Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
PAINT:	Cab schematic 100GN Location 1: 9219, Winter White (Std) Chassis schematic N/A

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
SA62500	Base Chassis, Model 7400 SBA 4X2 with 242.00 Wheelbase, 174.90 CA, and 96.00 Axle to Frame.	6959/3442	10401
1570	TOW HOOK, FRONT (2) Frame Mounted	8/0	8
1CBU	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL	109/447	556
1GBP	FRAME REINFORCEMENT Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL	449/726	1175
1LMX	BUMPER, FRONT Full Width, Aerodynamic, Painted Steel; 0.189" Material Thickness	-15/0	-15
	<u>Includes</u> : BUMPER, FRONT Powder Coated Gray (Argent) Color		
1SAL	CROSSMEMBER, REAR, AF (01)	-2/42	40
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille	129/-24	105
1WGS	WHEELBASE RANGE 189" (480cm) Through and Including 256" (650cm)	0/0	0
2ARU	AXLE, FRONT NON-DRIVING (Meritor MFS-16-143A) Wide Track, I-Beam Type, 16,000-lb Capacity	95/0	95
	<u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.		
3ADE	SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 16,000-lb Capacity; With Shock Absorbers	76/0	76
	<u>Includes</u> : SPRING PINS Rubber Bushings, Maintenance-Free		
	<u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.		
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications	0/0	0
	<u>Includes</u> : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : DUST SHIELDS, FRONT BRAKE : DUST SHIELDS, REAR BRAKE : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : PARKING BRAKE VALVE For Truck : QUICK RELEASE VALVE Bendix On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SLACK ADJUSTERS, FRONT Automatic : SLACK ADJUSTERS, REAR Automatic : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4		
	<u>Notes</u> : Rear Axle is Limited to 23,000-lb GAWR with Code 04091 BRAKE SYSTEM, AIR and Standard Rear Air Cam Brakes Regardless of Axle/Suspension Ordered.		

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
4193	BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Brake Chambers <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.	0/0	0
4722	DRAIN VALVE {Bendix DV-2} Automatic; With Heater; for Air Tank <u>Includes</u> : DRAIN VALVE Mounted in Wet Tank	1/0	1
4773	BRAKE SHOES, REAR Cast <u>Notes</u> : Provides Rear Axle GAWR Up to 26,000-Lb. : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.	0/50	50
4AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)	0/0	0
4ECG	AIR DRYER {Bendix AD-IP Twin} With Heaters and Everflow Module <u>Includes</u> : AIR DRYER LOCATION Inside Left Rail, Back of Cab	20/12	32
4ETE	BRAKE CHAMBERS, FRONT AXLE {Haldex} 24 SqIn	0/0	0
4EVL	BRAKE CHAMBERS, REAR AXLE {Haldex GC3030LHDHO} 30/30 Spring Brake <u>Includes</u> : BRAKE CHAMBERS, SPRING (2) Rear Parking; WITH TRUCK BRAKES: All 4x2, 4x4; WITH TRACTOR BRAKES: All 4x2, 4x4; 6x4 & 6x6 with Rear Tandem Axles Less Than 46,000-lb. or GVWR Less Than 54,000-lb.	0/0	0
4LAA	SLACK ADJUSTERS, FRONT {Haldex} Automatic	6/0	6
4LGA	SLACK ADJUSTERS, REAR {Haldex} Automatic	0/0	0
4NDB	BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.	0/0	0
4SBD	AIR COMPRESSOR {Bendix Tu-Flo 750} 16.5 CFM Capacity	0/0	0
4WXV	BRAKE CHAMBERS, SPRING Forward of 4x2 for Reyco & Vari-Rate suspension for: Asphalt Spreader/Paver applications	0/0	0
5708	STEERING COLUMN Tilting	10/0	10
5CAL	STEERING WHEEL 2-Spoke, 18" Diam., Black	0/0	0
5PTB	STEERING GEAR (2) {Sheppard M-100/M-80} Dual Power	123/-4	119
7BEJ	EXHAUST SYSTEM Single, Horizontal, Aftertreatment Device Frame Mounted Outside Right Rail Under Cab; Includes Vertical Tail Pipe and Guard <u>Includes</u>	-1/-12	-13

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
	: EXHAUST HEIGHT 10' Exhaust Height - Based on Empty Chassis with Standard Components (+ or - 1" Height) : MUFFLER/TAIL PIPE GUARD Non-Bright Finish		
7SCY	ENGINE COMPRESSION BRAKE for MaxxFoRce I6 Engines; Electronically Activated	0/0	0
7WAE	RAIN CAP With Single Exhaust, Non-Bright Finish	2/0	2
7WZY	SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, ON/OFF Type, Mounted in IP, Inhibits Diesel Particulate Filter Regeneration as Long as Switch is in ON Position	2/0	2
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0
	<u>Includes</u> : BATTERY BOX Steel with Plastic Lid : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : FUSES, ELECTRICAL SAE Blade-Type : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : HEADLIGHTS (2) Sealed Beam, Round, with Chrome Plated Bezels : JUMP START STUD Located on Positive Terminal of Outermost Battery : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : RUNNING LIGHT (2) Daytime, Included With Headlights : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered		
8518	CIGAR LIGHTER Includes Ash Cup	1/0	1
8GGN	ALTERNATOR {Bosch LH160} Brush Type, 12 Volt 160 Amp. Capacity, Pad Mount	-5/0	-5
8HAA	BODY BUILDER WIRING To Rear of Frame, With Stop, Tail, Turn, and Marker Lights Circuits, Ignition Controlled Auxiliary Feed and Ground, Less Trailer Socket	2/0	2
8MKL	BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 1950CCA Total	46/9	55
8RME	RADIO AM/FM/WB/Clock/3MM Auxiliary Input, with Multiple Speakers, With CD Player	1/0	1
8VAY	HORN, ELECTRIC Disc Style	2/0	2
8WEJ	BATTERY BOX Steel, With Fiberglass Cover, 35" Back of Cab, Mounted Left Side Perpendicular to Frame Rail	1/0	1
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade	0/0	0
8WTK	STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection	0/0	0
8WWJ	INDICATOR, LOW COOLANT LEVEL With Audible Alarm	0/0	0
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses	0/0	0

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
9HAN	INSULATION, UNDER HOOD for Sound Abatement	10/0	10
9HBM	GRILLE Stationary, Chrome	0/0	0
9HBN	INSULATION, SPLASH PANELS for Sound Abatement	2/0	2
9WBC	FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 & 2010 Emissions	0/0	0
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100 <u>Includes</u> : PAINT SCHEMATIC ID LETTERS "GN"	0/0	0
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
10WCY	SAFETY TRIANGLES	6/0	6
11001	CLUTCH Omit Item (Clutch & Control)	-67/-8	-75
12712	OIL FILTER, ENGINE {Hudgins Model 960 Spinner}	26/-1	25
12851	PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine Front Mounted	10/0	10
12959	BLOCK HEATER, ENGINE {Phillips} 120 Volt/1250 Watt <u>Includes</u> : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door	2/0	2
12NUU	ENGINE, DIESEL {MaxxForce 9} EPA 10, 300 HP @ 2000 RPM, 860 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 300 Peak HP (Max) <u>Includes</u> : AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated (Air Brake Chassis Only) : ANTI-FREEZE Red Shell Rotella Extended Life Coolant; -40 Degrees F/ -40 Degrees C; for MaxxForce and Navistar Engines : COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control : CRUISE CONTROL Electronic; Controls Integral to Steering Wheel : ENGINE OIL DRAIN PLUG Magnetic : ENGINE SHUTDOWN Electric, Key Operated : FUEL FILTER Included with Fuel/Water Separator : FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single Assembly; With Water-in-Fuel Sensor; Engine Mounted : GOVERNOR Electronic : OIL FILTER, ENGINE Spin-On Type : WET TYPE CYLINDER SLEEVES	51/2	53
12THZ	FAN DRIVE {Horton Drivemaster Polar Extrema} Direct Drive Type, Two Speed, With Residual Torque Device for Disengaged Fan Speed <u>Includes</u> : FAN Nylon	46/-3	43
12UAS	RADIATOR Aluminum, Cross Flow, Series System; 1228 SqIn Core and 648 SqIn Charge Air Cooler and 342 SqIn Low Temperature Radiator <u>Includes</u> : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps	0/0	0

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
	: RADIATOR HOSES Premium, Rubber		
12UNG	FEDERAL EMISSIONS EPA, OBD and GHG Certified for Calendar Year 2014; MaxxFoer 9 & MaxxFoer 10 Engines	0/0	0
12VBG	AIR CLEANER Dual Element, With Integral Pre Cleaner	12/0	12
	<u>Includes</u> : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted		
12VXU	THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Stationary Pre-Set, Two Speed Settings; Mounted on Steering Wheel	0/0	0
12VZA	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for MaxxFoer and Navistar post 2007 Emissions Electronic Engines	0/0	0
12WBR	FAN OVERRIDE Manual; With Electric Switch on Instrument Panel, (Fan On With Switch On)	0/0	0
12WZE	EMISSION COMPLIANCE Federal, Does Not Comply With California Clean Air Idle Regulations	0/0	0
13AAZ	AUTOMATIC NEUTRAL Allison WT, 3000 & 4000 Series Transmission Shifts to Neutral When Parking Brake is Engaged	0/0	0
13AVP	TRANSMISSION, AUTOMATIC (Allison 3500_RDS_P) 5th Generation Controls; Wide Ratio, 6-Speed, With Double Overdrive; Refuse/Mixer; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 60,000-lb GVW Max.	211/38	249
13WAW	OIL COOLER, AUTO TRANSMISSION (Modline) Water to Oil, for Allison or CEEMAT Transmission	25/0	25
13WBL	TRANSMISSION SHIFT CONTROL (Allison) Push-Button Type; for Allison 3000 & 4000 Series Transmission	0/0	0
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints	0/0	0
13WUK	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); Side Loaders	0/0	0
13WYL	SHIFT CONTROL PARAMETERS Allison Performance Programming In Primary and Allison Economy Programming in Secondary	0/0	0
14AHL	AXLE, REAR, SINGLE (Dana Spicer S26-190D) Single Reduction, 26,000-lb Capacity, R Wheel Ends, Driver Controlled Locking Differential . Gear Ratio: 5.57	0/379	379
	<u>Includes</u> : REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle		
	<u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires. : When Specifying Axle Ratio, Check Performance Guidelines and TCAPE for Startability and Performance		
14SCD	SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 31,000-lb Capacity; Includes (3) Torque Rods	0/167	167
	<u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.		

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
15SEU	FUEL TANK Top Draw; D Style, Non Polished Aluminum, 80 U.S. Gal., 303 L Capacity, 23.0" Tank Depth, Mounted Left Side Under Cab	-50/-5	-55
16030	CAB Conventional <u>Includes</u> : ARM REST (2) Molded Plastic; One Each Door : COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window : CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel : DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted : GLASS, ALL WINDOWS Tinted : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side : GRAB HANDLE, CAB INTERIOR (2) Front of "B" Pillar Mounted, One Each Side : INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color : STEP (4) Two Steps Per Door	0/0	0
16HBA	GAUGE CLUSTER English With English Electronic Speedometer <u>Includes</u> : GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)	0/0	0
16HGH	GAUGE, OIL TEMP, ALLISON TRAN	1/0	1
16HHE	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel	2/0	2
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
16JNT	SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, With 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust <u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type	31/8	39
16RPV	SEAT, PASSENGER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolated, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, -3 to +14 Degree Back Adjust <u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type	63/17	80
16SDU	MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatically Controlled, Power Both Sides, Clearance Lights LED, Bright Finish Heads & Brackets	8/0	8
16WCT	AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster <u>Includes</u> : HEATER HOSES Premium : HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps : REFRIGERANT Hydrofluorocarbon HFC-134A	42/5	47

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
16WJS	INSTRUMENT PANEL Center Section, Flat Panel	0/0	0
16WKY	HVAC FRESH AIR FILTER	0/0	0
16WLE	STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door	1/0	1
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood	1/0	1
16WRX	CAB INTERIOR TRIM Deluxe	0/0	0
	<u>Includes</u> : "A" PILLAR COVER Molded Plastic : CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal Is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering : CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CB Radio Pocket : DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors : FLOOR COVERING Rubber, Black : HEADLINER Soft Padded Cloth : INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section : STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door : SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console		
16WSK	CAB REAR SUSPENSION Air Bag Type	0/0	0
27DMY	WHEELS, FRONT DISC; 22.5" Non-Polished Aluminum, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 9.00 DC Rims; With Steel Hubs	-42/0	-42
	<u>Notes</u> : Aluminum Wheels not Painted or Coated : Compatible Tire Sizes: 12R22.5, 295/75R22.5, 295/80R22.5, 315/80R22.5		
28DRN	WHEELS, REAR (Accuride) DUAL DISC; 22.5" Painted Steel, 5 Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472" Thick Increased Capacity Disc and Steel Hubs	0/12	12
	<u>Includes</u> : PAINT IDENTITY, REAR WHEELS White		
	<u>Notes</u> : Compatible Tire Sizes: 11R22.5, 12R22.5, 255/70R22.5, 255/80R22.5, 265/75R22.5, 275/70R22.5, 275/80R22.5, 295/75R22.5, 295/80R22.5		
7482153208	(4) TIRE, REAR 12R22.5 XZY-3 (MICHELIN) 483 rev/mile, load range H, 16 ply	0/124	124
7652543208	(2) TIRE, FRONT 315/80R22.5 XZY-3 (MICHELIN) 486 rev/mile, load range L, 20 ply	90/0	90
	Cab schematic 100GN Location 1: 9219, Winter White (Std) Chassis schematic N/A		
	Services Section:		

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
40107	WARRANTY Standard for WorkStar 7300/7400 (4x2, 4x4, 6x4, 6x6), Effective with Vehicles Built January 2, 2014 or Later, CTS-2002T	0/0	0
40KMK	SERVICES, TOWING (Navistar) Service Call to 60-Month/Unlimited Mileage to the Nearest Navistar Dealer for Navistar Warrantable Failure as Contract Defined; Includes Engine Failure if Supplier Declines Tow Coverage & ESC Supplied thru Navistar; \$275 (USA) Maximum Benefit per Incident	0/0	0
40KMT	SRV CONTRACT, EXT VEH COVERAGE (Navistar) To 60-Month/150,000 Miles (240,000 km), Covers 100% Parts and Labor, Excludes Extended Warranty for Engine and Allison Transmission, for Rear Axle Rating of 52,000 lbs or less	0/0	0
40LCC	SRV CONTRACT, EXT ENGINE (Navistar) To 60-Month/150,000 Miles (240,000 km), 5,400 Hours; Includes Engine, Engine Electronics and Injectors; for MaxxForce 9 and Navistar N9 Engines	0/0	0
Total Component Weight:		8500/5423	13923

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

The intent of these specifications is to cover minimum requirements for a fully automated side loading refuse removal body. Failure to complete this information is grounds for rejection of the bid. Bidders are requested to state wherein your equipment meets, or fails to meet the specifications by checking 'Yes' or 'No' in the provided space. Any exceptions must be noted in 'Offered' column

Body	Yes	No	Offered
Capacity (excluding hopper): 24 cubic yards Dimensions: Length 242" – Width 92" – Height 95"			
Body floor material is 3/16 AR plate and supported by 5 1/2" x 5 1/2" x 1/4" C channel cross members that interlace with two each 5" x 3" x 7" x 1/4" trapezoid shaped full length longitudinal members. A 24" strip of 1/4" AR-400 is overlaid on the floor at the hopper/body entrance. The floor is tapered out from front to rear to allow for tapered body sides.			
Body sides are 10GA Hi Tensile, ASTM A-572 Grade 50 plate rolled into a broad radius for added strength. Body sides have bump breaks on horizontal 6" centers for added strength. Two (2) body posts formed from 5 1/2" x 5 1/2" x 3/16" C channel are used at each end of the body sides. Right and left hand body sides is tapered 8" front to back for easy and safe unloading. Top of body sides is formed for added strength and overlapped 12" on to the body roof.			
Body roof material is 12GA Hi Tensile, ASTM A 607, Grade 50 sheet metal rolled into a broad radius with 3" x 2" x 3/16" structural tube bracing and bordered front and rear by 5 1/2" x 3/16" C channel to match side post. Roof is tapered 6" front to back for easy and safe unloading. Roof panels have bump breaks at 6" centers running the length of the panel for added strength			
Tailgate is a (1) piece, 5 yard bubble style, top hinged. Tailgate uses 10GA ASTM A-572 Grade 50 sheet metal framed with 5 1/2" x 5 1/2" x 3/16" C channel, secured to the body using two (2) sets of hinges with 1 1/2" hinge pins at the roof line. The door is secured in the closed position by means of a self-locking tailgate feature. A heavy duty rubber seal is installed along the bottom and partially up the side 24" to prevent leakage. Tailgate cylinders are 3" bore x 30" stroke with 1 1/2" chrome rods. Tailgate has a seal tension adjuster located on the body that will tighten the seal in the event of leakage due to wear.			
Hopper and Packing Mechanism	Yes	No	Offered
Minimum 4 cubic yard hopper capacity			
Hopper floor and sides are 1/4" Hardox 450 plate. The hopper clean out trough is located at the front of body for safety and to expedite clean out from behind packer. An 1/4" Hardox 450 shall be installed on hopper floor for a recycle liner. Cleaning is performed from ground level without the need to physically enter the hopper area. Gaskets lined clean out doors are provided on both sides of trough. The packer frame is formed from 3/8" T-1, ASTM A-514, grade B, plate. The packer is guided by (2) 1/4" formed channels lined with 1/4" x 5" wide Hardox 450 wear strips. The			

<p>packer has 2 skids to match the channels in the hopper. The skids are 5/16" formed channel lined with 3/8" x 5" Hardox 450 strips on the upper and lower surfaces that match the wear plates on the hopper. A replaceable 1.5" x 5" x 30" black UMHW wear block is used to provide side protection and keep the packer moving straight through the hopper. The block can be replaced or shimmed without removing the packer.</p>			
<p>The packer follower is part of the packer structure, eliminating the need to roll up vertically. The top of the packer covers 85 percent of the Hopper opening behind the packer face to prevent trash from falling behind the packer. A 1/2" x 18" x 74" hinged plate bolted above the packer with a rubber wiper is installed to seal off the remaining area behind the packer when fully extended. The hinged plate also acts as a primary wiper. A secondary rubber wiper is installed behind the hinged cover plate to wipe smaller particles from the packer surface.</p>			
<p>The packer cylinders are installed in a horizontal, overlapping design, and have a 5" bore x 46" stroke. The packer cylinders use a bronze rod scraper and double lip rod seals for long life. 12" x 16" cover plates are bolted to the face of the packer to aid in the removal of the packer pins. Remote grease hoses are installed to grease the packer pins from ground level.</p>			
<p>The right hand side of the hopper shall have an auto fold down door using (2) 1-1/2" x 10" air cylinders allowing for a 74" access height to accommodate hand loading of refuse and safe removal of dropped containers. The door is controlled by an air valve installed under the right hand seat. The door must be in the closed position to allow packer operation.</p>			
<p>An hydraulic crusher panel is operated by a single 2-1/2" x 30" cylinder shall be provided to contain refuse while the truck is moving and to assist compaction of bulky material. The cover/panel opens automatically when dumping carts.</p>			
<p>Automated Arm</p>	Yes	No	Offered
<p>The arm shall be mounted to the body above the packer to retrieve, grip and dump 30-440 gallon carts. The arm shall be mounted on the body to save cab to axle space, relieve the chassis frame of undo stress and does not require a flip-up packer follower system.</p>			
<p>Cycle time for the arm is (7-8) seconds at 750 RPM from the side of the truck.</p>			
<p>Arm will reach a container, centered, 144" from the side of the truck. Cycle time from a stowed position to grip, up, down, un-grip is (7) seconds.</p>			
<p>Maximum height from the bottom of a 100 gal cart to the ground in full dump position is less than 150" and cart will be rotated to a 45 degree dump angle.</p>			
<p>Universal grippers shall be capable of picking up 30-450 gallon carts. Grippers are</p>			

lined with rubber pads for protection and the gripping force can be adjusted from cab.			
Arm reach is linear travel using two (2) tubular rails spaced 30" apart for stability. Before dumping, carts are lifted vertically off the ground 26". All linear travel is done by using 3 1/2" roller bearing cam followers on AR-500 wear strips with adjustment capability for taking up slack due to age. Arm and grips stow to within the legal width and grippers shall be able to stow at any height in the vertical travel.			
The arm uses four cylinders in its operation and all have externally adjustable cushions where needed. Elevation and dump cylinders are plumbed together and sequenced automatically Reach cylinder 2" bore x 72" stroke x 1 1/4" rod. Grip cylinder 2" bore x 8" stroke x 1" rod. Elevation cylinder 2" bore x 26" stroke x 1" rod. Dump cylinder 3" bore x 20" stroke x 1 3/4" rod.			
Controls	Yes	No	Offered
The arm is controlled by using a metering controller (joystick) with a three (3) position electric toggle switch on top for grippers. An extra set of controls consisting of four (4) rocker switches will be installed for back-up and/or driver stress. The fourth rocker switch will be used for auto dump and auto stow cycles. Controls are all electric/hydraulic with the exception of the loading door. Wiring shall be labeled for function every 5' from source to destination.			
Packer is controlled by an electric stop and retract button. Pushing the button will stop the packer, pulling it will retract it and start the cycle. All packer controls and switches shall be electric operated. A manual toggle switch shall be installed to run the packer or to position it for maintenance.			
The tailgate and hoist shall be operated with 3-position electric switches. Safety features on tailgate hoist toggle shall be provided.			
Hydraulics	Yes	No	Offered
General: The Variable Displacement System generates pressure and flow only when called upon. When system is not being used, the pump is automatically shifted into a low pressure standby mode generating only 1/4 GPM @ 250 PSI. When switches or joystick is used, the pump generates only the amount of flow and pressure called upon. A compensator is used to limit the pump to a maximum flow of 30 GPM no matter the RPM. The compensator is also used to limit the maximum pressure output to 2250 PSI without the use of heat generating and fuel consuming relief valves.			
Hydraulic hoses and tubing: All pressure lines 3/4 and above are 4 wire braid SAE 100R4. Smaller sizes are 2 wire braid SAE 100R2. All stationary lines use zinc-coated steel tubing clamped every 18" with shock absorbing tube clamps.			
Hydraulic reservoir: 80 gallon frame mounted with an in-tank filter. Due to the			

lower flow rates of the displacement pump, the filter can be rated to 60 GPM max flow/3 micron, and is outfitted with a bypass gauge indicating an element change is needed.			
Arm Valve: Arm is controlled by a load sensing closed center cartridge valve. Electric coils shift spools that only emit the amount of flow required.			
Packer Valve: Electric operated 60 GPM rated single spool D-08 series valve.			
Hoist/Tailgate Valve: Electric low flow cartridge valve.			
Electrical	Yes	No	Offered
A red pilot light shall be installed to indicated "pump on", "hoist up", and "tailgate open". An audible buzzer will sound when tailgate is open and/or hoist is raised. All lights, turn signals and clearance will be LED flush grommet mounted type. All wiring will be labeled for function every 4" for ease in troubleshooting. All electrical connections are done using solder and heat shrink and protected by split loom.			
An alarm will sound when the truck is in motion if the arm is left out while the driver's foot is off the brake pedal.			
Lighting	Yes	No	Offered
Flush mounted Grote DOT specified clearance, backup and directional lights			
Center mounted amber strobe light on tailgate			
4 alternating LED strobe lights on tailgate			
Work lights on arm and hopper			
Paint	Yes	No	Offered
(1) coat PPG brand etching primer			
(2) coats PPG brand epoxy primer			
(2) coats PPG paint – Color White			
PPG (P8001) Undercoating of body			
Miscellaneous	Yes	No	Offered
3 camera system with color LED monitor to be mounted to truck. Location to be determined by purchaser.			
Clean out tools and Mounted Holder.			

10 lb. Fire Extinguisher.			
Automated Arm – Arm grease points allows easy and reliable automatic greasing system (grabber pivots, horizontal roller bearings).			
Warranty- 5 year warranty on body to include: pump, hydraulic cylinders, rocker switches, latch and relays, and timers.			
Must have full authorized service facility within 50 miles from City of Gallatin Public Works.			
Body to be manufactured in the United States no exceptions			
Chassis to include:			
Dual sit down Steering w/ integral column and shaft guards			
LH tilt steering is retained.			
RH tilt steering is included			
Dual OEM accelerator, brake and turn signal controls			
5 year extended warranty on transmission.			