

ATTACHMENT A - CURRENT SPECIFICATIONS
Rear loader, refuse truck with 16 cubic yard high compaction

C.1 Safety Equipment

- C.1.1 First aid kit; mounted inside of cab
- C.1.2 5 pound ABC fire extinguisher mounted in cab and 10-pound fire extinguisher mounted outside with cover.
- C.1.3 Triangle kite
- C.1.4 Back-up alarm: horn or buzzer type.
- C.1.5 Air horn
- C.1.6 Inside dash mounted 6.8 inches LCD, monitor system audio, protected by recessed mounting behind light bar, and insulated armored cable with mil-spec connectors for maximum protection.
- C.1.7 2 LED amber strobes front and rear. License plate, rear, to be attached via one way screws. Tool to be provided.
- C.1.8 (LED body lighting all except back-up lights
- C.1.9 Two (2) rubber wheel chocks shall be secured on side of body

C.2 Vehicle

- C.2.1 Cabover, 3 persons seating; step-in-height; maximum 24 inches. All crewmembers must be able to sit facing forward while being transported.
- C.2.2 Wheelbase shall be compatible with body, maximum 152 inches.
- C.2.3 Cab to axle: shall be compatible to body, maximum 152 inches.
- C.2.4 Cab to axle: shall be compatible to body, maximum 108 inches.

C.3 Gross Vehicle Weight Rating (GVWR)

- C.3.1 Minimum: 40,600 pounds
- C.3.2 Front axle weight rating with oil seal, minimum 14,000 pounds
- C.3.3 Rear axle weight rating, minimum 26,000 pounds

C.4 Chassis

- C.4.1 Frame Resisting Bending Moment: Minimum 1,983.00 RBM
- C.4.2 Color: manufacturer's standard
- C.4.3 Front bumper: manufacturer's heavy duty with holes to access 2 frames mounted tow hooks

C.5 Suspension

- C.5.1 Front: minimum 14,600 pounds GVWR
- C.5.2 Front suspension type: axle shall be front leaf spring type with manufacturer's heavy duty shock absorbers.
- C.5.3 Lubricated front wheel bearing

- C.5.4 Rear suspension: minimum 31,000 pounds GVWR
- C.5.5 Rear suspension type: spring type/flat variable leaf
- C.5.6 Rear axle electronic traction control

C.6 Wheels

- C.6.1 Front: minimum 8.25 x 22.5 piloted steel disc.
- C.6.2 Rear: minimum 8.25 x 22.5 hub piloted steel disc
- C.6.3 1 Spare: match rear

C.7 Tires

- C.7.1 Front: minimum: 12R22.5 steering g-159 Goodyear 16 ply all season or equal
- C.7.2 Rear: minimum: 12R22.5, 16 ply, mud & snow
- C.7.3 One spare to match rear, minimum 12R22.5, 16 ply mud & snow.
- C.7.4 On-spot automatic tire chain system shall be mounted in front of axle.

C.8 Brakes

- C.8.1 Type: Air ABS
- C.8.2 Front: Drum, S cam, self adjusting
- C.8.3 Rear: Drum, S cam type self-adjusting
- C.8.4 Parking brake type: Spring type mounted rear of axle
- C.8.5 Compressor: minimum 12.9 cubic feet/minute
- C.8.6 Air dryer Bendix ADIS or equal. Alcohol evaporator not acceptable.
- C.8.7 Low air warning light and buzzer

C.9 Engine

- C.9.1 Type: minimum Isuzu diesel, water cooled: 6H7.8L
- C.9.2 Configuration: minimum: in-line 6 cylinder
- C.9.3 Net S.A.E. Horsepower; minimum: 230 @ rated RPM
- C.9.4 Torque: minimum: 660@ rated RPM
- C.9.5 Automatic Engine Shut-down System: Protection to include: Low oil pressure, low coolant level, and high engine temperature electronic engine-integral.
- C.9.6 Engine shall provide pre-heater coil to pre-heat engine before starting.
- C.9.7 Engine/oil & fuel filters spin on type only.
- C.9.8 Radiator: shall have clamp on tanks and a minimum of 737 square inches
- C.9.9 Coolant: Permanent antifreeze to 34 degrees F
- C.9.10 Fuel water separator: heated
- C.9.11 Hydraulic fan clutch (no air controlled) must be rated for engine size specified.

C.10 Transmission

- C.10.1 Type: 5 speed automatic, Allison RDS3000 5 speed
- C.10.2 Transmission cooler; coolant to oil.

C.10.3 Control: Push button type

C.11 Power Take Off (PTO)

C.11.1 Direct mount: no PTO shaft

C.11.2 Hot shift with rev limiter, lit when on PTO shall reengage when returned to idle.

C.11.3 Neutral interlock (PTO shall be inoperable, if transmission is not in neutral).

C.12 Rear End

C.12.1 Magnetic drain plug, top geared minimum 55 MPH

C.13 Electrical

C.13.1 12 volt negative ground

C.13.2 Battery: minimum (2) maintenance free, 1500 CCA

C.13.3 Alternator: minimum: 130 amperes. All wiring shall be copper

C.14 Fuel System

C.14.1 Fuel tank: minimum 50 US gallons

C.14.2 Fuel tank type diesel

C.14.3 Vehicles shall be equipped with an EJ Ward candometer (VIT) automated fuel system

C.15 Exhaust System

C.15.1 Vertical exhaust with vertical pipe (vertical pipe, must be lower than body).

C.16 Exterior

C.16.1 Colors: cab bright white, body tangier orange

C.16.2 The entire body shall be properly cleaned and painted with a suitable primer, and finish painted with a high quality polyurethane paint.

C.16.3 Mud guards: steel front of rear tires with no advertisement

C.16.4 Window: windshield shaded, all other windows tinted

C.16.5 Doors: to open a full 70 degrees with a window that opens & closes

C.16.6 Locks: doors must be lockable with a key

C.16.7 Dual interior steel, or aluminum grab handlers on both sides

C.16.8 Front bumper: full steel 12" with tapered ends and 2 tow hoods

C.16.9 Underbody tool box, steel, painted black with T handle, 24" x 18" x 18"

C.17 Interior

C.17.1 Color: manufacturer's standard

C.17.2 Sun visors: dual

C.18 Seating

C.18.1 Driver's seat; air ride, vinyl bucket

C.18.2 Forwarded facing passengers seat: minimum 2 persons padded seat with padded back support with seatbelts.

C.19 Floorcovering

C.19.1 Rubber throughout

C.20 Insulation

C.20.1 Manufacturer's sound package not to exceed 84 dbs prior to body installation.

C.21 Heat Defrost Air Conditioning

C.21.1 Heater: multi speed, minimum: 40,000 BTU

C.21.2 Air conditioning: manual (CFC free)

C.22 Instrumentation

C.22.1 Speed-o-mete

C.22.2 Odometer 1 million mile

C.22.3 Tachometer

C.22.4 Hour meter

C.22.5 Fuel gauge

C.22.6 Oil pressure gauge

C.22.7 Battery condition gauge

C.22.8 Water temperature gauge

C.22.9 Transmission temperature gauge

C.22.10 Air inlet restriction gauge

C.23 Radio

C.23.1 AM/FM/CD/Clock with 2 speakers, one in each door

C.24 Mirrors

C.24.1 Fully collapsible dual west coast mirror heads with 9" convex. Mirror not attached to window glass no exceptions.

C.25 Body

C.25.1 16 yard high compaction

C.25.2 Minimum 1000 lbs cu yards.

C.25.3 Compaction force: minimum 89,000 pounds.

C.25.4 Capacity: minimum 15,400 pounds based on average dry household refuse, not including hopper

C.25.5 Body sides shall be minimum 11 gauge high tensile sheet, 50,000 PSI minimum yield steel. Curved shall design, one piece side sheets, with ¼" wrap around reinforcement top and bottom. The body floor shall be ¼" minimum, with 5/16" trough, and ¼" ramp liners.

C.25.6 Side door: a side door shall be provided at left side front corner of body, with handholds & step rungs for ease of entrance to body for maintenance and cleaning purposes.

C.25.7 Minimum door size: 30" wide x 30" high.

C.25.8 Packer shall meet all applicable ANSI Z-245.1 safety standards.

C.25.9 The packer shall contain a safety mechanism to prevent hopper over-packing.

C.26 Tailgate

C.26.1 Tail gate shall have a minimum of 2 locking devices, one on each side.

C.26.2 Water seal: a watertight seal shall retain fluids a minimum of 24 inches above packer floor height.

C.26.3 Tailgate hopper capacity: minimum 3.0 cubic yards. Hopper extension kits are not acceptable.

C.26.4 Hopper: minimum: 3/8 inch 100,000 PSI steel one piece-no liners.

C.26.5 Tailgate sides shall be ¼", 50,000 PSI minimum yield steel.

C.26.6 The rear side steps shall conform to ANSI standard and specification Nos. 121-2104 & 2105 and also the rear ride steps shall be a minimum 42" long and 15" wide at the rear.

C.26.7 Hand holds: minimum 2 hand holds shall be permanently mounted on each side of the tailgate: minimum diameter of one and one-quarter inch, outside perimeter and be compatible with a broad range of differing height personnel and conforming to ANSI standard 245.1-1999.

C.26.8 Hopper working lights: minimum 2-4 inch working lights located inside tailgate above blade. Control switch shall be located in the cab.

C.26.9 Blade or carrier shall be slide or roller type no swing link design will be accepted.

C.26.10 Spring mounted wiper sheet.

C.27 Hydraulic System

C.27.1 A heavy duty, single speed power take-off with neutral Interlock (P.T.O. inoperative if transmission not in neutral) shall be provided and shall be compatible with the chassis transmission). The PTO shall be activated by:

1. Electrical signal (hot shift)

C.27.2 The PTO shall run quietly. Gearing shall be selected for minimum engine RPM compatible with recommended pump RPM for correct operating pressure and rates of flow for the refuse body.

C.27.3 To minimize hydraulic cylinder weight, a high pressure hydraulic system shall be employed. The operating pressure of the system shall be 2300 maximum PSI.

- C.27.4 A heavy-duty gear pump shall be provided with minimum rated capacity of 24 GPM@ 1,200 RPM.
- C.27.5 The hydraulic system shall incorporate adjustable relief valves to protect all components from excessive pressure and overloads, and shall be equipped with tamper proof device and pressure gauge installed.
- C.27.6 All hydraulic tubes shall be securely clamped to prevent vibration, vibration, abrasion, and excessive noise.
- C.27.7 All hydraulic hoses shall conform to S.A.E. standards for designed pressure. Bends shall not be less than S.A.E. recommended by standards. Flat spots in hoses are not acceptable.
- C.27.8 The hydraulic tank mounted in the front of the body to prevent pump cavitation shall be complete with a screened fill pipe and cap, filter breather, clean out cover, manual shut-off valve and service drain plug under the tank.
- C.27.9 Hydraulic tank shall be equipped with low hydraulic fluid sensor which will register on dash of cab, and shut-down system which prohibits the engagement of the PTO system when fluid level is below 40% of of tank capacity.
- C.27.10 The hydraulic system shall be protected by a ten (10) micron return line filter.
- C.27.11 Multi-spool control valves shall be of a sectional design such that servicing would not require replacement of the entire valve assembly.
- C.27.12 All hydraulic lines located on front and top of packer body shall be protected with cover to prevent damage. The cover shall be removable to allow for repair or replacement of hoses.
- C.27.13 Rods of packing, carrier, or slide cylinders shall be a minimum 5" and 5.5" respectively induction hardened to a surface hardness of 55-65 Rockwell C scale, and be chrome plated.

C.28 Controls

- C.28.1 Packing controls: controls for packing blade shall be located in a convenient location for the technician at the right side of the tailgate.
- C.28.2 Controls shall be of independent design allowing the packer blade to be independently stopped and or reversed from any point in the compaction cycle.
- C.28.3 Tailgate and ejection controls: shall be located at the left side front corner of the packer.

C.29 Ejection System

- C.29.1 Load ejection: unloading shall be by the ejection method. The ejection panel shall traverse the full length of the body, by a double action telescopic cylinder. Clamping bars are not acceptable.
- C.29.2 Ejection system shall be equipped with a quick disconnect system for unloading via wet pack. Customer quick disconnect sizes will be determined by user.

C.30 Supercan Lift

- C.30.1 Supercan lifts: (2); Bayne MBTL-180 or equal super can lifts shall be installed on the rear of the tailgate hopper and be flush mounted.

- C.30.2 Controls: separate controls shall be provided on each side of the tailgate in a position convenient to the technician. The controls shall be located 36 inches above the rear step.
- C.30.3 Supercan lifts at full dump position shall not make contact with sweep blade at any time.
- C.30.4 Supercan lift tap in kit and plumbing shall be supplied by dumper manufacturer to ensure compatibility.
- C.30.5 All super can hydraulic tubes on the outside of the tailgate lift shall be metal lines. Rubber hoses are not acceptable.

C.31 Safety Standards

- C.31.1 Conspicuity striping: tape shall be full-length of body and full width of tailgate with no breaks.
- C.31.2 Cycle time. Bidders shall state cycle time.
- C.31.3 Communication buzzer: from tailgate of cab.
- C.31.4 All control valves shall be located not to cause.

C.32 Corrosion Treatment

C.33 Dimension

- C.33.1 Overall dimensions: maximum 310 inches from bumper to tailgate.
- C.33.2 Overall length: bumper to tailgate, maximum 25 feet 10 inches.
- C.33.3 Overall width: maximum 8 feet 6 inches including mirrors.
- C.33.4 Overall height: maximum 11 feet 6 inches from ground to top.

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF PUBLIC WORKS



REPLY TO:
FLEET MANAGEMENT ADMINISTRATION
1725 15TH STREET, N.E.
WASHINGTON, D.C. 20002
(202) 576-6799
FAX (202) 576-7715

Specifications
Rear Loader, Refuse Truck with 16-Cubic Yard High Compaction or Equal
(Compress Natural Gas)

C.1 Safety Equipment

- | | | |
|-------|--|-----------------|
| C.1.1 | First aid kit: mounted inside of cab
(State model offered) _____ | Required |
| C.1.2 | 5 pounds ABC fire extinguisher mounted in cab and 10 pound fire
extinguisher mounted outside with cover | Required |
| C.1.3 | Triangle kit | Required |
| C.1.4 | Back-up alarm: horn or buzzer type | Required |
| C.1.5 | Air horn | Required |
| C.1.6 | Inside dash mounted 6.8 inches LCD, monitor system, audio, protected
By recessed mounting behind light bar, and insulated armored cable with
mil-spec connectors for maximum protection.
(State makes and models offered) _____ | Required |
| C.1.7 | 2 LED Amber Strobes Front and Rear. License plate, rear, to be attached
via one way screws. Tool to be provided. | Required |
| C.1.8 | (LED) body lighting all except back-up lights | Required |
| C.1.9 | Two (2) rubber wheel chocks shall be secured on side of body | Required |

C.2 Vehicle

- | | | |
|-------|---|-----------------|
| C.2.1 | Cabover, 3 persons seating; step-in heights: maximum 24 inches.
All crewmembers must be able to sit facing forward while being transported
(State make and model offered) _____ | Required |
| C.2.2 | Wheelbase: Shall be compatible with body, maximum 170 inches
(State make and model offered) _____ | Required |
| C.2.3 | Cab to axle: shall be compatible to body, maximum 152 inches
(State make and model offered) _____ | Required |

C.2.4	Cab to axle: Front Bumper to back of cab to be a maximum of 80 inches	Required
C.3	<u>Gross Vehicle Weight Rating (GVWR)</u>	
C.3.1	Minimum: 40,600 pounds (State GVWR offered) _____	Required
C.3.2	Front axle weight rating with oil seal, minimum 14,000 pounds (State make and model offered) _____	Required
C.3.3	Rear axle weight rating, minimum 26,000 pounds (State make and model offered) _____	Required
C.4	<u>Chassis</u>	
C.4.1	Frame resisting bending moment: minimum 1,983,000 RBM (State RBM offered) _____	Required
C.4.2	Color: manufacturer's standard	Required
C.4.3	Front bumper: manufacturer's heavy duty with holes to access 2 frames mounted tow hooks	Required
C.5	<u>Suspension</u>	
C.5.1	Front minimum 14,600 pounds GVWR (State front suspension GVWR offered) _____	Required
C.5.2	Front suspension type: axle shall be front leaf spring type with manufacturers heavy duty shock absorbers (State type offered) _____	Required
C.5.3	Lubricated front wheel bearing: (State make offered) _____	Required
C.5.4	Rear suspension: minimum 31,000 pounds GVWR (State rear suspension GVWR offered) _____	Required
C.5.5	Rear suspension type: spring type/flat variable leaf (State type offered) _____	Required
C.5.6	Rear axle electronic traction control	Required
C.6	<u>Wheels</u>	
C.6.1	Front: minimum 8.25 x 22.5 piloted steel disc (State wheels offered) _____	Required
C.6.2	Rear: minimum 8.25 x 22.5 hub piloted steel disc (State wheels offered) _____	Required
C.6.3	One Spare: match rear	Required

C.7 Tires

- C.7.1 Front: minimum 12R22.5 steering g-159 Goodyear 16 ply, all season or equal
(State tires offered) _____ **Required**
- C.7.2 Rear: minimum: 12R22.5, 16ply mud & snow
(State tires offered) _____ **Required**
- C.7.3 One Spare to match rear, minimum 12R22.5, 16 ply mud & snow
(State tires offered) _____ **Required**
- C.7.4 On-spot automatic tire chain system shall be mounted in front of axle **Required**

C.8 Brakes

- C.8.1 Type: Air ABS **Required**
- C.8.2 Front: Drum, S cam self adjusting **Required**
- C.8.3 Rear: Drum, S cam type self-adjusting **Required**
- C.8.4 Parking brake type: Spring type mounted rear of axle **Required**
- C.8.5 Compressor: minimum 12.9 cubic feet/minute
(State make and model offered) _____ **Required**
- C.8.6 Air dryer Bendix ADIS or equal. Alcohol evaporator not acceptable.
(State make and model offered) _____ **Required**
- C.8.7 Low air warning light and buzzer **Required**

C.9 Engine

- C.9.1 Type: minimum Cummins 1SL - CNG, Engine
(State make and model offered) _____ **Required**
- C.9.2 Configuration: minimum: in-line 6 cylinder
(State make and model offered) _____ **Required**
- C.9.3 Net S.A.E. Horsepower; minimum: 230 @ rated RPM
(State Horsepower offered) _____ **Required**
- C.9.4 Torque: minimum: 660 @ rated RPM
(State Horsepower offered) _____ **Required**
- C.9.5 Automatic Engine Shut-down System: Protection to include: Low oil pressure, low coolant level, and high engine temperature electronic engine-integral **Required**
- C.9.6 Engine/oil & fuel filters spin on type only **Required**

- C.9.7 Radiator: shall have clamp on tanks and a minimum of 737 square inches **Required**
- C.9.8 Coolant: Permanent antifreeze to 34 degrees F **Required**
- C.9.9 Fuel water separator: heated **Required**
- C.9.10 Hydraulic fan clutch (no air controlled) must be rated for engine size Specified. **Required**
(State make and model offered) _____

C.10 Transmission

- C.10.1 Type: 5 speed automatic, Allison RDS3000 5 speed **Required**
(State make and model offered) _____
- C.10.2 Transmission cooler; coolant to oil. **Required**
- C.10.3 Control: Push button type **Required**

C.11 Power Take off (PTO)

- C.11.1 Direct mount: no PTO shaft **Required**
- C.11.2 Hot shift with rev limiter, lit when on PTO shall reengage when returned to idle **Required**
- C.11.3 Neutral interlock (PTO shall be inoperable, if transmission in not in neutral) **Required**

C.12 Rear End

- C.12.1 Magnetic drain plug, top geared minimum 55 mph **Required**
(State MPH offered) _____

C.13 Electrical

- C.13.1 12 volt negative ground **Required**
- C.13.2 Battery: minimum (2) maintenance free, 1500 CCA **Required**
- C.13.3 Alternator: minimum: 130 amperes. All wiring shall be copper **Required**
(State amperes offered) _____

C.14 Fuel System

- C.14.1 Fuel Tank; minimum 40 Diesel gallon equivalent **Required**
(State capacity offered) _____
- C.14.2 Fuel Tank Type: Diesel **Required**
- C.14.3 Vehicle shall be equipped with an EJ Ward Candometer (VIT) automated fuel system **Required**
Contact: Lee Christensen
EJ Ward Inc.
Phone: (210) 824-7383

C.15	<u>Exhaust System</u>	
C.15.1	Vertical exhaust with vertical pipe (vertical pipe, must be lower than body)	Required
C.16	<u>Exterior</u>	
C.16.1	Colors: Cab bright white, body tangier orange	Required
C.16.2	The entire body shall be properly cleaned and painted with a suitable primer, and finish painted with a high quality polyurethane paint	Required
C.16.3	Mud guards: steel front of rear tires with no advertisement	Required
C.16.4	Windows: windshield shaded, all other windows tinted	Required
C.16.5	Doors: to open a full 70 degrees with a window that opens & closes	Required
C.16.6	Locks: doors must be lockable with a key	Required
C.16.7	Dual interior steel, or aluminum grab handles on both sides	Required
C.16.8	Front bumper: full steel 12" w/tapered ends and 2 tow hooks	Required
C.16.9	Underbody tool box, steel, painted black with T handle, 24" x 18" x 18"	Required
C.17	<u>Interior</u>	
C.17.1	Color: Manufacturer's standard	Required
C.17.2	Sun visors: dual	Required
C.18	<u>Seating</u>	
C.18.1	Driver's seat: air ride, vinyl bucket	Required
C.18.2	Forwarded facing passenger seat: minimum 2 persons padded seat with padded back support with seatbelts	Required
C.19	<u>Floor Covering</u>	
C.19.1	Rubber throughout	Required
C.20	<u>Insulation</u>	
C.20.1	Manufacturer's sound package not to exceed 84 lbs prior to body installation	Required
C.21	<u>Heat/Defrost/Air Conditioning</u>	
C.21.1	Heater: Multi Speed, minimum: 31,000 BTU (State MPH offered) _____	Required
C.21.2	Air conditioning: manual (CFC free)	Required

C.22 Instrumentation

- C.22.1 Speed-o-meter **Required**
- C.22.2 Odometer 1 million mile **Required**
- C.22.3 Tachometer **Required**
- C.22.4 Hour meter **Required**
- C.22.5 Fuel gauge **Required**
- C.22.6 Oil pressure gauge **Required**
- C.22.7 Water temperature gauge **Required**
- C.22.8 Transmission temperature gauge **Required**
- C.22.9 Air inlet restriction gauge **Required**

C.23 Radio

- C.23.1 AM/FM/CD/Clock with 2 speakers, one in each door **Required**

C.24 Mirrors

- C.24.1 Fully collapsible dual west coast mirror heads 9" convex. Mirror Not attached to window glass no exceptions **Required**

C.25 Body

- C.25.1 16-yard high compaction **Required**
(State make & model offered) _____
- C.25.2 Minimum 1000 lbs cu yards. Bodies with "up to" 1000 lbs. cu yards will Not be considered **Required**
- C.25.3 Compaction force: minimum 89,000 pounds. Must be high compaction **Required**
(State compaction force offered) _____
- C.25.4 Capacity: minimum 15,400 pounds based on average dry household refuse, not including hopper **Required**
- C.25.5 Body sides shall be minimum 11 gauge high tensile sheet, 50,000 PSI minimum yield steel. Curved shall design, one piece side sheets, with ¼" wrap around reinforcement top and bottom. The body floor shall be ¼" minimum and ¼" ramp liners **Required**
- C.25.6 Side door: a side door shall be provided at left side front corner of body, with handholds and step rungs for ease of entrance to body for maintenance and cleaning purpose **Required**
- C.25.7 Minimum door size: 30" wide x 30" high **Required**
(State door size offered) _____

C.25.8 Packer shall meet all applicable ANSI Z-245.1 safety standards **Required**

C.25.9 The packer shall contain a safety mechanism to prevent hopper over-packing
(State system offered) _____ **Required**

C.26 Tailgate

C.26.1 Tail gate shall have a minimum of 2 locking devices, one on each side **Required**

C.26.2 Water seal: a water tight seal shall retain fluids a minimum of 24 inches
above packer floor height **Required**

C.26.3 Tailgate hopper capacity: minimum 3.0 cubic yards. Hopper extension kits
are not acceptable **Required**
(State hopper capacity offered) _____

C.26.4 Hopper: minimum 3/8 inch 100,000 PSI steel one-piece – no liners **Required**

C.26.5 Tailgate sides shall be 1/4" 50,000 PSI minimum yield steel **Required**

C.26.6 The rear side steps shall conform to ANSI standard and specification Nos.
121-2104 & 2105 and also the rear ride steps shall be a minimum 42" long
and 15" wide at the rear **Required**

C.26.7 Hand holds: minimum 2 hand holds shall be permanently mounted on each
side of the tailgate: minimum diameter of one and one-quarter inch, outside
perimeter and be compatible with a broad range of differing height personnel
and conforming to ANSI standard 245.1-1999 **Required**

C.26.8 Hopper working lights: minimum 2-4 inch working lights located inside
tailgate above blade. Control switch shall be located in the cab **Required**

C.26.9 Blade or carrier shall be slide or roller type no swing link design will be
accepted **Required**

C.26.10 Spring mounted wiper sheet **Required**

C.27 Hydraulic System

C.27.1 A heavy duty, single speed power take-off with neutral interlocks (P.T.O.
inoperative if transmission not in neutral) shall be provided and shall be
compatible with the chassis transmission). The PTO shall be activated by:

- Electrical signal (**hot shift**)

C.27.2 The PTO shall run quietly. Gearing shall be selected for minimum engine
RPM compatible with recommended pump RPM for correct operating pressure
and rates of flow for the refuse body **Required**

C.27.3 To minimize hydraulic cylinder weight, a high pressure hydraulic system shall
be employed. The operating pressure of the system shall be 2500 PSI

C.27.4 A heavy-duty gear pump shall be provided with minimum rated capacity of 24
GPM @ 1,200 RPM **Required**

- C.27.5 The hydraulic system shall incorporate adjustable relief valves to protect all components from excessive pressure and overloads, and shall be equipped with tamper proof device and pressure gauge installed. **Required**
(Describe tamper proof device)
- C.27.6 All hydraulic tubes shall be securely clamped to prevent vibration, abrasion and excessive noise **Required**
- C.27.7 All hydraulic hose shall conform to S.A.E. standards for designed pressure. Bends shall not be less than S.A.E. recommended by standards. Flat spots in hoses are not acceptable **Required**
- C.27.8 The hydraulic tank mounted in the front of the body to prevent pump cavitation shall be complete with a screened fill pipe and cap, filter breather, clean out cover, manual shut-off valve and service drain plug under the tank **Required**
- C.27.9 Hydraulic tank shall be equipped with low hydraulic fluid sensor which will register on dash of cab, and shut-down system which prohibits the engagement of the POT system when fluid level is below 40% of tank capacity **Required**
- C.27.10 The hydraulic system shall be protected by a ten (10) micron return line filter. **Required**
- C.27.11 Multi-spool control valves shall be of a sectional design such that servicing would not required replacement of the entire valve assembly **Required**
- C.27.12 All hydraulic lines located on front and top of packer body shall be protected with cover to prevent damage. The cover shall be removable to allow for repair or replacement of hoses **Required**
- C.27.13 Rods of packing, carrier, or slide cylinders shall be a minimum 4.5" and 5" Respectively induction hardened to a surface hardness of 55-65 Rockwell C scale, and be chrome plated. **Required**

C.28 Controls

- C.28.1 Packing controls: controls for packing blade shall be located in a convenient location for the technician at the right side of the tailgate **Required**
- C.28.2 Controls shall be of independent design allowing the packer blade to be independently stopped and or reversed from any point in the compaction cycle **Required**
- C.28.3 Tailgate and ejection controls: shall be located at the left side front corner of the packer **Required**

C.29 Ejection System

- C.29.1 Load ejection: unloading shall be by the ejection method. The ejection panel shall traverse the full length of the body, by a double action telescopic cylinder. Clamping bars are not acceptable **Required**
- C.29.2 Ejection system shall be equipped with a quick disconnect system for unloading via wet pack. Customer quick disconnect sizes will be determined by user **Required**

C.30 Supercan Lift

- C.30.1 Supercan lifts: (2); Bayne MBTL-180 (or equal) super can lifts shall be installed **Required**
On the rear of the tailgate hopper and be flush mounted
(State model/make offered) _____
- C.30.2 Controls: separate controls shall be provided on each side of the tailgate in a **Required**
position convenient to the technician. The controls shall be located 36 inches
above the rear step
- C.30.3 Supercan lifts at full dump position shall not make contact with sweep blade at **Required**
anytime
- C.30.4 Supercan lift tap in kit and plumbing shall be supplied by dumper manufacturer **Required**
to ensure compatibility
- C.30.5 All super can hydraulic tubes on the outside of the tailgate lift shall be metal **Required**
lines. Rubber hoses are not acceptable

C.31 Safety Standards

- C.31.1 Conspicuity striping: tape shall be full-length of body and full width of tailgate **Required**
with no breaks
- C.31.2 Cycle time: Bidders shall state cycle time _____ **Required**
- C.31.3 Communication buzzer: from tailgate of cab **Required**
- C.31.4 All control valves shall be located not to cause any leakage on side riding **Required**
steps

C.32 Corrosion Treatment

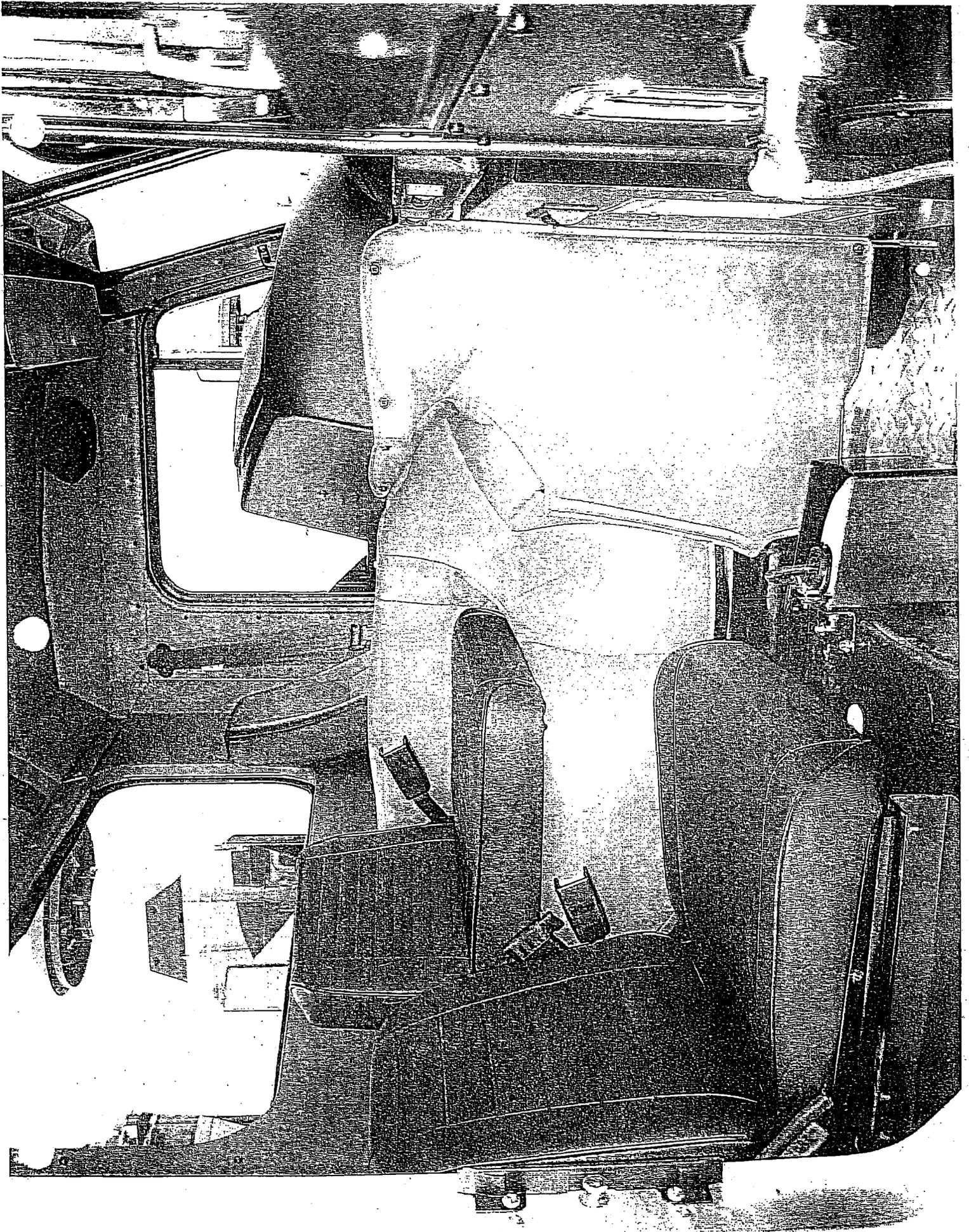
- C.32.1 Corrosion treatment (State treatment offered) _____ **Required**

C.33 Dimension

- C.33.1 Overall dimensions: maximum 310 inches form bumper to tailgate. All **Required**
bidders shall complete the following
- C.33.2 Overall length: bumper to tailgate, maximum 28 feet 0 inches **Required**
(State feet inches offered) _____
- C.33.3 Overall width: maximum 8 feet 6 inches including mirrors **Required**
(State feet inches offered) _____
- C.33.4 Overall height: maximum 11 feet 6 inches form ground to top **Required**
(State feet inches offered) _____



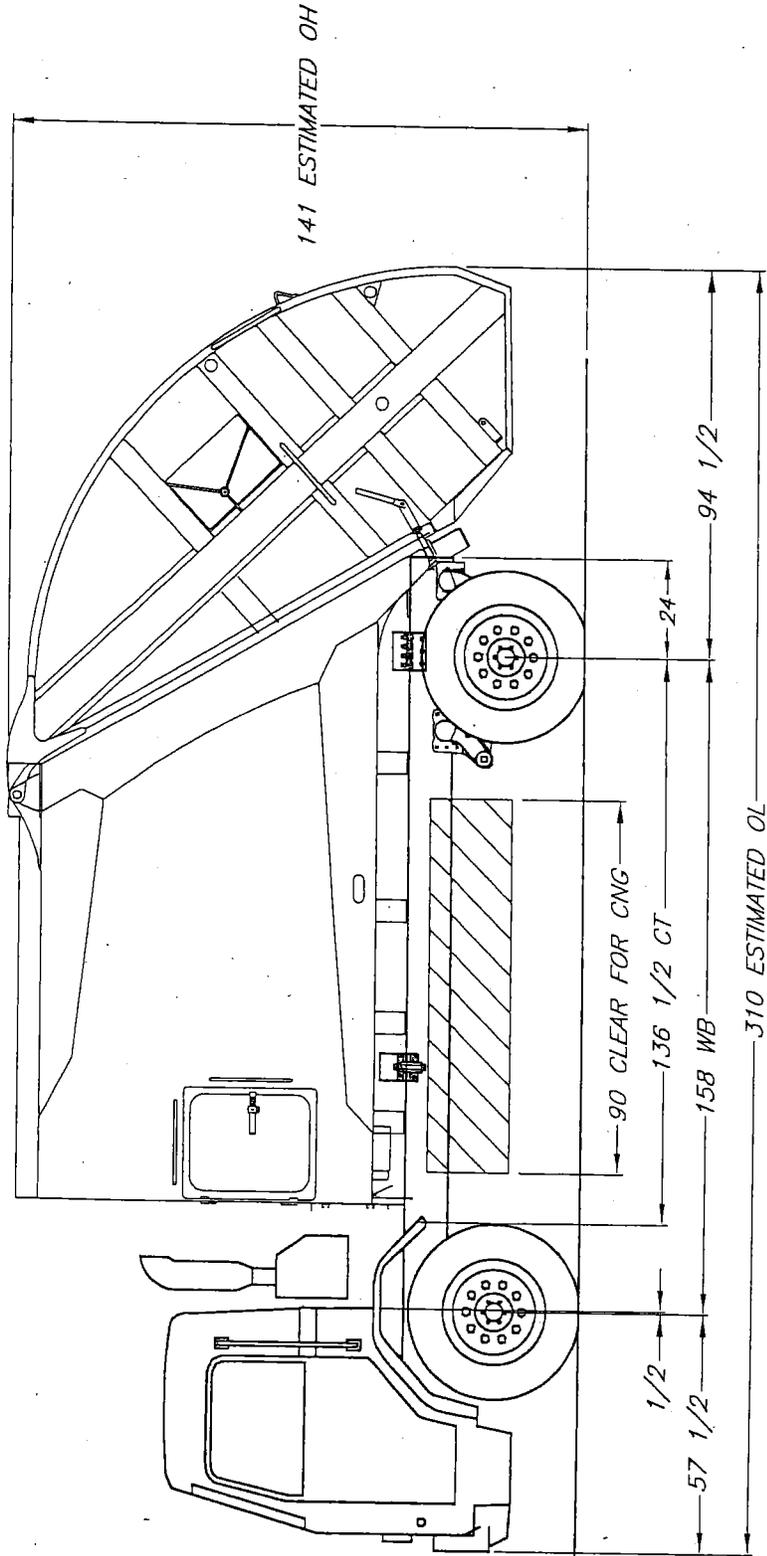
16 CUBIC YARD
MCNEILUS HD REARLOADER
ON A
PETERBILT 320
POWERED BY
CUMMINS ISL-G (CNG)



McNeilus

AN OSHKOSH CORPORATION COMPANY

MAX WIDTH 97.25 IN



PETERBILT 320 WITH 16 YD REAR LOADER BODY

BATTERY BOX MUST BE MOVED TO CURB SIDE OF CHASSIS