

SPECIFICATIONS FOR HEAVY DUTY SANITATION TRUCK CHASSIS

COMPLY

YES

NO

1. SERVICE EQUIPMENT:

This truck will be used by the Department of Public Works Sanitation Dept. for picking of trash and transferring to dump site or transfer station

2. MODEL:

Shall be the manufacturer's current model.

YEAR _____ MAKE _____ MODEL _____

3. GROSS VEHICLE WEIGHT:

Minimum G.V.W.R. of 44,000Lbs.

4. CAB TO AXLE:

Shall be suitable for mounting a 23 to 27 yd. automated side loader. Fitted to builder specs

5. ENGINE:

a. Must have Cummins ISL, 370 hp wet sleeve engine design and 1250 lbs. of torque

b. Engine crankshaft to be equipped with a flange to attach either a drive shaft or a front mounted hydraulic pump.

c. Installed engine block heater.

d. Fuel heater/water separator

e. Engine starter shall be a heavy duty Delco Remy.

6. RADIATOR:

a. Radiator shall be heavy duty type with sufficient cooling capacity to adequately cool the engine and transmission. The radiator must be mounted so that a front mount hydraulic pump can be used.

b. Radiator must be all aluminum construction. If plastic side tanks are provided it must have additional warranty covering parts and labor for (5) five years. This must be clearly written in warranty documents

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	COMPLY	
	YES	NO
7. STEERING GEARS:		
Must have dual front steering gears	<input type="checkbox"/>	<input type="checkbox"/>
8. TRANSMISSION:		
a. Transmission shall be an Allison 6 speed RDS 3000 series transmission. There shall be no substitutes.	<input type="checkbox"/>	<input type="checkbox"/>
b. Transmission shall be filled with Transynd synthetic fluid or equivalent.	<input type="checkbox"/>	<input type="checkbox"/>
9. REAR AXLE:		
a. Single speed with capacity rating of no less than 26,000 lbs	<input type="checkbox"/>	<input type="checkbox"/>
b. Full floating axle with 5.38 ratio with driver control main locking differential. Shall use a synthetic axle fluid.	<input type="checkbox"/>	<input type="checkbox"/>
10. FRONT AXLE:		
Shall have a minimum rating of 18,000 lbs. Shall have a multi-leaf system with 18,000 lb. capacity.	<input type="checkbox"/>	<input type="checkbox"/>
11. TURNING RADIUS:		
Must include a diagram of turning radius.	<input type="checkbox"/>	<input type="checkbox"/>
12. FRAME:		
Frame shall have a minimum 22.10sm., 2,600,000 RBM, 120,000 psi single channel from bumper to bumper with a 20" minimum front extension and a 65" frame overhang to the rear.	<input type="checkbox"/>	<input type="checkbox"/>
13. TIRES:		
a. Front tires to be 315/80R with highway tread, "L" rating	<input type="checkbox"/>	<input type="checkbox"/>
b. Rear tires (4) to be 11.00R x 22.5 with a 14 ply rating.	<input type="checkbox"/>	<input type="checkbox"/>
c. Rear tires must be traction type.	<input type="checkbox"/>	<input type="checkbox"/>
d. Must include one spare tire and rim for front and rear.	<input type="checkbox"/>	<input type="checkbox"/>
14. RIM/WHEELS:		
Hub piloted, steel painted rims to match truck cab paint.	<input type="checkbox"/>	<input type="checkbox"/>

COMPLY	
YES	NO

15. FUEL TANK:

Tank not to be less than 60 gallons. Frame mounted, aluminum tank.

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16. BRAKES:

Air brakes:

a. Front cam 16.5" x 6" with slack adjuster and dust cover.

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b. Rear cam 16.5" x 7" with slack adjuster and dust cover.

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c. Must be supplied with a Meritor- Wabco heated air dryer system.

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d. Must include drain valve and heater on all tanks

e. Must have a minimum CFM of 18.0 and pull cords on tank to release the air.

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17. EXHAUST SYSTEM:

a. Horizontal DPF with a vertical tailpipe on the right side of cab.

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b. Must have a 45 degree elbow at the top of exhaust pipe.

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18. CAB:

CONVENTIONAL CAB ONLY, NO CAB OVERS

a. Conventional tilt hood with inspection hatches and stationary grill.

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b. Cloth high back, air ride drivers seat and passenger seat. The exception would be if passenger seat is furnished with Fontaine conversion

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c. Electric two speed wiper with delay.

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d. Sun visors left and right

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e. Air conditioning

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f. Heated mirrors left and right

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g. Electronically adjustable mirrors

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h. Cab must include power locks on both cab doors

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i. Dome light in cab

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j. AM-FM radio with Bluetooth capabilities

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SPECIFICATIONS FOR HEAVY DUTY TRUCK CHASSIS

COMPLY

YES

NO

k. Accessory power plugs mounted in dash

l. Hour meter

m. Tilt steering wheel

n. Outside cab mounted entrance grab rails on both sides of cab.

o. Cab must have power windows.

p. Cab must have dual steer. If right hand steer is installed aftermarket it must be the Fontaine right hand conversion package.

19. ELECTRICAL SYSTEM:

a. 12 volt system with a 150 amp. (minimum) brushless alternator.

b. Three(3) 3000 CCA (minimum) batteries with a battery disconnect switch.

20. LIGHTING:

a. Lights to include signal, tail and stop to conform to ICC and DOT regulations.

b. Rear brake, turn, tail and side marker lights to be LED.

c. Upfitter switches to be added to dash for additional lighting.

21. PAINT:

The entire cab to be painted white with a clear coat over a suitable primer with a black frame.

22. MANUALS:

Must have a complete set of Operator, Service and Parts manuals included.

COMPLY

YES **NO**

EMISSIONS COMPONENT WARRANTY:

* 60 Months or 100,000 miles on parts and labor to include coverage of complete after treatment system and sensors for entire warranty period

ENGINE/CHASSIS:

* Warranty is to cover all major engine components including EGR cooler, valve and mixer, turbo, fuel injectors, water pump, and labor for a period of 60 months or 100,000 miles

TRANSMISSION:

* Transmission parts and labor to be covered for a period of 36 months

TOWING:

* Towing on all warrantable failures to be cover for a period of 60 months

*** WARRANTY TO START THE DAY EQUIPMENT IS PUT INTO SERVICE**

SPECIFICATIONS FOR AUTOMATED SIDE LOADER

COMPLY

	YES	NO
1. BODY CAPACITY:		
Minimum capacity must be no less than 24yds including hopper	<input type="checkbox"/>	<input type="checkbox"/>
2. STEEL GRADE:		
Hopper steel grade must be Hardox 450	<input type="checkbox"/>	<input type="checkbox"/>
3. FLOOR CONSTRUCTION:		
Hopper floor must have a full thickness of no less than .250(1/4") and yield strength of no less than 175,000 psi	<input type="checkbox"/>	<input type="checkbox"/>
4. SIDE CONSTRUCTION:		
a. Side body walls should be one piece, seamless for less resistance and less welded seams	<input type="checkbox"/>	<input type="checkbox"/>
b. 12 gauge minimum, a tapered design with a (4) four degree minimum taper	<input type="checkbox"/>	<input type="checkbox"/>
5. TAILGATE:		
a. Rear tailgate must be hydraulically operated	<input type="checkbox"/>	<input type="checkbox"/>
b. Tailgate must have automatically operating safety latches	<input type="checkbox"/>	<input type="checkbox"/>
c. Tailgate must be operated by two cylinders	<input type="checkbox"/>	<input type="checkbox"/>
d. The cab must have an alarm to notify driver that tailgate is not properly locked	<input type="checkbox"/>	<input type="checkbox"/>
e. Tailgate must have a rubber seal at least 24" high to prevent leakage of liquids	<input type="checkbox"/>	<input type="checkbox"/>
f. Tailgate must have two manual locking pins	<input type="checkbox"/>	<input type="checkbox"/>
g. Tailgate must not slide down to be in locked position	<input type="checkbox"/>	<input type="checkbox"/>
6. HYDRAULIC SYSTEM:		
Hydraulic pump shall be a front engine, crank driven, Denison tandem vane pump, one for body and the other for arm functions, with electronic over-speed control.	<input type="checkbox"/>	<input type="checkbox"/>

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COMPLY	
YES	NO

b. The hydraulic system shall operate at an acceptable temperature without the need for external hydraulic oil cooling devices

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c. The tank shall be complete with a screened fill pipe and cap, clean out cover, oil level sight and temperature gauge and suction line shut-off valve

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d. Must have a pressurized system with at least 3psi to eliminate any chance of running the pump without oil in the pump

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e. Refuse body must be lifted by one center mount cylinder. NO chassis or side mount cylinders

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f. Hydraulic pump shall operate ALL hydraulic features at engine idle speed 750-850 rpm

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g. Must have an emergency stop button easily accessible inside cab

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7. PACKER CONSTRUCTION:

a. Packer must have a minimum opening of 24"

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b. Packer must be operated by two hydraulic cylinders

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c. Packer must have an emergency stop button

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d. Packer must stop all hydraulic functions when packer door is open

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e. Must have an auto pack feature

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8. BODY:

Body must include brackets for hanging cleanout tools onto the side of the body

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9. CAMERA SYSTEM

a. Must include camera system to see the rear of the vehicle while in reverse, hopper and right side grab arm

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b. Camera system must have a minimum of 7" screen that swivels

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c. Cameras must have heaters, vocal and night vision

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COMPLY	
YES	NO

10. CART COUNTER:

Must include a cart counter

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11. LUBRICATION:

All body hinges, cylinder rod ends, cylinder base, rollers, trunnions and high cycle pivot points shall be supplied with grease fittings

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12. HORIZONTAL REACH:

- a. Horizontal reach must be a minimum of 144"
- b. Must have a minimum lifting capacity at maximum reach of 600lbs

c. See attached diagram for reach

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13. AUTOMATED REGUSE CONTAINER SIZES:

Must be able to lift automated refuse containers from 36 to 95 gallon

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14. ARM CONTROL:

- a. Arm must be controlled by an electric over hydraulic operated joystick- NO air
- b. Joystick must be able to be moved to be operated from either side of cab.
- c. Must have an indicator light when arm is extended
- d. All functions on arm to function while energizing limit switch on joystick handle
- e. Lift arm must be secured to automated body and lift out of the way for maintenance

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15. AUTOMATED BODY LIGHTING

- a. All lighting on hopper must be LED including tail, stop, flashers and turn and a Whelon Roto-Beam #R416 AF LED on center, rear outside of hopper
- b. Must have two 4" amber LED strobes in upper light bar along with brake, tail, stop and turnlights

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16. HOPPER CAPACITY:

Hopper must have a capacity of at least (4) four cubic yards

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17. CRUSHER PANEL:

Must have a hydraulic crusher panel to enclose hopper

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COMPLY	
YES	NO

18. BODY PAINT

Body must be properly cleaned of oils, grease, weld slag and be painted a color chosen by the buyer.

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Must have a minimum of two coats primer and two coats baked on enamel finish

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19. CAB ACCSESORIES:

Cab must include fire extinguisher, safety triangles and first aid kit, all mounted securely in cab

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20. MANUALS:

Must include all parts, operator and service manuals

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21. WARRANTY ON AUTOMATED BODY:

a. Warranty must cover body, hydraulics and all moving parts for a period of (1) ONE year starting on the first day the vehicle is put in service

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b. Warranty on paint must be a period of (3) three years of paint adhesion

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22. OPTIONS:

List these options and costs to be added:

Cleanout tools

\$ _____

Upgrade to heavy duty arm(include literature)

\$ _____

Electric/ hydraulic control valve

\$ _____

Hardox 450 body, floor and lower side walls

\$ _____

A hydraulic pump shut down system that would prohibit prolonged operation

of the hydraulics when a failure occurs

\$ _____

CHASSIS MUST BE APPROVED BY REFUSE BODY MANUFACTURE BEFORE ORDERING

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