

# **SERVICE TRUCK SPECIFICATIONS**

## **City of East Providence**

### **Water Utilities Division**

## **BODY**

The service body shall be the Maintainer MTS 1-084 Service Body or approved equal and shall meet or exceed the following specifications. Along with the bid, an engineered line drawing in a PDF format shall be provided that shows the two sides, top and rear views of the unit along with clearly detailed accessories that are to be provided. Failure to do so may result in rejection of bid.

### **1.0 BED CONSTRUCTION**

The bed frame sills shall be constructed of C6 x 6.2 structural channels with 4" cross-members of structural tubing. Cross members shall be on a maximum of 12" centers. The bed floor shall be a minimum of 1/8" steel deck plate, w/no wheel wells (flat floor). Rear body supported with a horizontal cross tubing of 4" x 6" x 3/16", with vertical 4" x 4" x 3/16" tubing supports. Structural channel located in front & rear of wheel wells for additional support shall be required. Wheel well opening of 44" x 21". Body length of 131" (inches) maximum. Overall body width shall be a minimum of 96" (inches) wide with a 49"W opening between the side packs.

### **1.1 GALVANNEALED STORAGE COMPARTMENTS**

The entire compartment shell including top, backs, bottoms, sides and fronts along with any sheet metal shall be constructed with 12-gauge A-60 galvanized steel. The floors of the compartments shall have two (2) formed reinforcements fabricated directly from side to side for the entire width of the floor. The center deck cargo area shall have a 49" inside opening.

All door openings will be equipped with metal backed automotive door seals (stick-on weather stripping is not acceptable). All doors will be constructed from single piece, reinforced (interior side) of 3/16" aluminum w/ plasma radiuses corners. Doors shall be equipped with bolt-on replaceable stainless steel hinges and studded bolt-on stainless steel D-ring (3) three-point keyed alike latches. The latch is designed to be water resistant, incorporates a padlock feature, blind mount design, key cylinder to have a spring flip-open side cover to aid in water & dust resistance, utilize existing cut-out pre-attached gasket and keyed alike cylinder. All doors, including the rear van enclosure, are to be installed in a 1 1/2" formed-recessed door opening for protection (flush mount doors are not acceptable). All vertical doors shall be equipped with removable gas shock door holders to secure the doors in both the fully open and fully closed positions. There shall be a continuous aluminum extruded drip rail above all compartment doors (except the workbench compartments) evenly pop-riveted with an adhesive backing.

The first SS compartment (24" x 52" x 23") shall be equipped with two (2) galvanized infinite adjustable shelves w/protective lip. (No adjustable shelf clips will be accepted). The top of the compartment shall be a hinged down control panel for operation of exterior lighting with lighted rocker switches & clearly marked. The second SS compartment (35" x 52" x 23") shall be equipped with two (2) infinite adjustable galvanized shelves with protective lip. Above roll-out drawers shall be provided above the drawer set. No adjustable shelf clips will be accepted. The third SS compartment (44" x 31" x 23") shall be equipped with one galvanized infinite adjustable shelf w/protective lip. (No adjustable shelf clips will be accepted). The fourth SS compartment (24" x 52" x 23") shall be equipped with two (2) infinite adjustable galvanized shelves. (No adjustable shelf clips will be accepted).

The first CS compartment (24" x 52" x 23") shall be equipped with two (2) galvanized infinite adjustable shelves w/protective lip on each. The bottom of the compartment shall be reinforced for jack hammer storage. The bottom shall have a reinforced plated bolted to the floor and covered in PPG polyurethane body liner. The second CS compartment (35" x 52" x 23") shall have two (2) galvanized infinite adjustable shelves w/protective lip. (No adjustable shelf clips will be accepted). The third CS compartment (44" x 31" x 23") shall be equipped with one galvanized infinite adjustable shelf w/protective lip. (No adjustable shelf clips will be accepted). The fourth CS compartment (24" x 59" x 23") shall be equipped with one fixed shelf for the mounting of one Hannay 1/2" x 50' hose reel and one infinite adjustable shelf . (No shelf clips shall be accepted).

Both side packs shall have a master compartment lock system, spring loaded and padlock guards. Padlocks furnished by the water utility. There shall be two (2) rear grab handles on body.

Four (4) flush mount tie downs shall be provided and spaced evenly in the center deck. The recessed rings shall rotate a full 360 degrees for best tensioning position and have a minimum rating of 5000 lbs. pulling capacity each. Recesses shall be provided with drain holes.

There shall be a 20" deep rear workbench/push bumper which will be constructed out of 3/16" steel work surface. The step is constructed out of 10-gauge pickled and oiled plate steel and is tied directly to the chassis frame. There shall be (2) 12-gauge galvanized side compartments with polished stainless steel door. D-handle latches, single point shall be provided. Each door latch shall have a keyed alike, protective spring loaded cover. The door latch on the inside of the compartment shall be protected from sliding bars. The doors shall be equipped with rubber bumpers on the bottom to hold them open. Below the work surface shall be 10-gauge steel full width step bumper tied directly to the chassis frame. The bumper shall have corner marker lights cut into each corner at 45-degree angles. Rear step on the platform shall have a notched area on the SS rear to access the body. There shall be reflective tape in red and white alternating at the bottom of the bumper and visible from the rear.

There shall be a 2" square tube hitch receiver fabricated into the rear bumper with safety chain loops on each side. The hitch shall be rated at Class IV (1,500 vertical & 10,000 MGTW). Two (2) vise mounting pockets on each side of the rear work surface shall be provided. There shall be one bolt on vise bracket provided. There shall be a transverse bar storage pocket that runs from the SS to the CS workbench compartments. A seven (7) prong trailer plug connected to truck lighting system shall be provided.

There shall be a van enclosure covering the service body constructed of 12 gauge A-60 galvanized steel. The enclosure shall have a height no more than 72" from the floor to the top of the enclosure. The van enclosure specifications are as follows:

Support for van enclosure is provided by front, rear and side walls, with additional support where necessary. Rear van body doors to be swing-out recessed style doors with three-point d-ring stainless steel door latches w/locking key matching other doors and full weather stripping. Top outside corners of the enclosure are to have a taper in lieu of square corners. Two (2) galvanized full length shelves are to be installed on each side of the enclosure w/4" protective lip. Shelves to be evenly divided and have a center support.

**EXCEPTIONS:**

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**2.0 I.C.C. SAFETY KIT**

There shall be a 2 1/2 lbs. fire extinguisher and hazard reflectors shipped in the chassis cab. (The body shall also be equipped with rear mud flaps.)

**2.1 WIRING AND LIGHTING**

The body shall be wired and lighted to meet I.C.C. regulations. All wiring shall be enclosed in protective looming. The rear tail, turn and back-up lights shall be L.E.D, enclosed in a rubber mounted recessed box and installed on the rear of the body. The marker lights should be L.E.D and shall also be rubber mounted recess type.

**2.2 EXTERIOR LIGHTING**

There shall be (2) two exterior 12V halogen floodlights - one mounted permanently on top of the rear SS compartment and the other a remote light on a magnetic base with 25' of cord. Spring-loaded flip up receptacles for the remote light shall be located at the bottom rear of the SS and CS compartments.

Two (2) exterior rubber-mounted amber oval L.E.D strobe lights shall be provided and located on the body. Two (2) exterior rubber-mounted oval clear L.E.D. strobe lights are to be installed on the rear of the body. A lighted, fused on/off switch to be located in the cab.

**2.3 INTERIOR LIGHTING**

12 Volt strip lights will be provided in each tool box, one (1) each 36” light with dual rocker switches (top and bottom) provided in the CS1, 2, 4, SS1, 2, 4, and two (2) each 12” lights with dual rocker switches (top and bottom) located in the CS3 & SS3 compartments. There also shall be two (2) sets of three (3)-36” strip lights evenly spaced in the interior roof of the topper with power switch inside the rear door.

**2.4 BACKUP ALARM**

There shall be a Grote Model 73040, or approved equal, electric backup alarm installed at the rear of the truck.

EXCEPTIONS:

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**3.0 HYDRAULIC ROTARY AIR COMPRESSOR SYSTEM**

There shall be one Viper 85 Rotary air compressor provided. Air compressor to be rated at 85 CFM @ 100 PSI.

Compressor Dimensions with fittings (in.) – 42.2L x 20.0W x 21.0H

Dry Weight (lbs.) – 370

**HYDRAULIC SYSTEM REQUIREMENTS**

- 3000 PSI rated hydraulic pump
- Pressure relief set at 3200 PSI
- Hydraulic reservoir at 2.5 times the oil flow (recommended)
- Dedicated gear pump
- Additional oil cooler for high-ambient temperatures

## SPECIAL FEATURES

### Compressor

- Vanguard™ Lifetime Warranty on air end
- Gear-type hydraulic motor
- Oil-injected, Sullair® rotary screw air end
- Powder-coated, galvanized sheet metal enclosure
- Air-to-oil compressor fluid cooler
- Ambient operating range: -20°F to +110°F
- Electrical 12-volt DC/24-volt DC
- Supply connections
  - Hydraulic oil in – 3/4" 37° JIC
  - Hydraulic oil out – 1" 37° JIC

There shall be a closed center, load sensing/pressure compensated variable piston pump (4.21 cu/in minimum displacements) to be run by a PTO driveline through an automatic transmission, with a lighted master control switch located in the cab. A minimum 50-gallon oil (heated hot water) reservoir shall be mounted in front of the service body ahead of a steel bulkhead and shall be equipped with an in-tank suction strainer and 10 micron in-tank return filter with restriction gauge and fish-eye sight gauges.

All hydraulic fittings shall be O-ring type wherever possible and double braided hydraulic pressure hose with a pressure rating of at least 3500 psi shall be used.

One air accessory package shall be provided including a 1/2" I.D. Hannay hose reel assembly with hose. There shall be one Norgren 001 filter-lubricator-regulator or equivalent with die cast aluminum body, 40-micron filter and steel bowl and sight glass mounted in the CS4 compartment, next to the reel. There shall be one poly lockable box on the rear of the body for access to the air reels.

There shall be one 20-gallon air tank ASME rated with internal check valve provided. The tank to be mounted between truck frame rails.

The air compressor shall be located inside the van on the floor and bolted to tabs. Bolting of the air compressor to the floor is not acceptable.

### EXCEPTIONS:

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### **3.1 ELECTRONIC ENGINE SPEED CONTROL**

There shall be an electronic speed control installed on the chassis engine and be set for proper RPM to operate the air compressor.

### **4.0 HYDRAULIC TOOL CIRCUIT**

There shall be one hydraulic tool circuit provided, w/couplers and handles. One way flow w/10 GPM @ 2,250PSI. There shall be one hydraulic adjustable flow meter provided on the quick disconnect circuit. The quick disconnects shall be located on the rear of body at the utility's approval.

### **5.0 INTERIOR VAN HEAT SYSTEM**

There shall be one diesel fueled hot water heater provided. The heater must be capable of producing 45,000 BTU and plumbed to a 20-gallon auxiliary steel fuel tank located in the bed area. The heater shall also be plumbed to a 20-gallon stainless steel antifreeze tank located in the bed area.

The fuel tank's outer shells are made of 10-gauge Grade 50 pickled & oiled (pio) steel. Baffles are to be made of 12-gauge pickled and oiled (pio) steel. Tanks are to be wrapped at the bottom for mounting reinforcement with 7-gauge pickled and oiled Grade 50 steel.

Tanks will have a special rack system (mounted to the floor) with spring loaded mounts on one side, fixed mounts on the other side. Tanks must be able to be raised for cleaning and access under tanks. All tanks to be pressure tested to 3lbs. and tagged as such.

There shall be a rear removable panel located behind the tanks to protect them. Panel to be covered in PPG Body Liner.

### **5.1 CLEANING, PAINTING AND LINE-X PROTECTION**

The body, tanks, van enclosure, inside and out shall be chemically cleaned with Chemkleen 163; warm water rinsed and phosphatized with Chemfros ST or approved equal process. All shall be primed with a DPU 174 to 1.0 - 1.5 dry mils. The topcoat of the body and enclosure inside and out shall be PPG Poly-Urethane Paint Dupont Yellow 750206EB with 2.0 -2.5 dry mils.

The center deck floor, side walls, and front bulkhead along with the compartment tops, backs, and workbench bumper shall be sprayed with a black polyurethane liner (PPG) to permanently seals out rust and corrosion.

EXCEPTIONS:

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## CAB & CHASSIS

The Cab/Chassis shall be a Hino Truck, Model 258LP or equal meeting the following specifications (minimum): 4 x 2 Conventional GVW 25,500 lbs.

**Motor:**

Diesel 6-cylinder inline sleeved motor  
220 HP at 2500 RPM  
Minimum 520 lbs. of torque with exhaust Brake – block heater

**Transmission:**

Allison 2200 RPS with PTO Provision  
Five-speed automatic

**Front Axle:**

8000 lbs. MFS-8 series – I Beam – oil lubricated hubs

**Front Springs:**

8000 lbs.

**Rear Axle:**

17,500 lbs. RS17-145 Series full floating  
Single reduction single speed by Hypoid gearings with oil lubricated type

**Rear Springs:**

19,000 lbs. with auxiliary helper leaf springs

**Frame:**

80,000 PSI – 1031900 R.B.M. Cab to Axle 84

**Steering:**

TRW – TAS65

**Wheels/Tires:**

19.5 x 6.75 8-Stud disc \* 245/70R19.5 (G)

**Brakes:**

Full ABS air brakes

**Control:**

A.B.S.

**Parking Brake:**

Air

**CAB:**

Steel  
Adjustable reclining driver's seat  
Two-man bench seat – AC-Heated outside mirrors  
AM/FM Radio

**Dash:**

Speedometer-Odometer-Fuel gauge-coolant temperature-engine tachometer-warnings lamps and buzzers

**Driver Information Display:**

Instant and trip fuel consumption – DPR monitor maintenance schedules-engine/vehicle diagnostics

**Batteries:**

Two, 31 Series Battery

**Fuel Filter:**

Davco 230 Fuel PRO  
Heated fuel/water separator

**Tow Hook:**

One at front

**Air Dryer****Fuel Tank:**

Single 52-gallon-synthetic fluids transmission/rear differential

**Training:**

Four hours

**Paint Code:**

DuPont Yellow 750206EB

## 6.0 WARRANTY

Included will be a minimum of four hours of in-field service training w/ regards of usability, safety, and maintenance.

### Service & Operator Manuals:

One Hard

One Disc

**\*\*\*\*\*Roadside Assistance \*\*\*\*\* 3-year unlimited roadside assistance  
Lockout \* out of fuel \* battery jumpstart  
Warranty towing**

**\*\*\*\*\*Allison Warranty \*\*\*\*\* 5-year unlimited miles with towing service**

**\*\*\*\*\*Engine Warranty \*\*\*\*\* 4-year 200,000 miles engine warranty**

<b>Covered:</b>	flywheel housing	cylinder block	oil pump
	connecting rods	intake manifold	cylinder head
	crankshaft	pistons/liners	camshaft/lifters
	timing housing/gears	steering gear	

### **OPTIONS ALSO TO BE QUOTED – THE CITY RESERVES THE RIGHT TO INCLUDE ANY OR ALL OF THESE IN THE FINAL PURCHASE.**

- 1) Five (5) EZ latch aluminum drawer assemblies (125 lbs. capacity each drawer) 18”W x 18” D x (5) 4”H w. total height of 29” maximum w/aluminum base, w/1 F-B divider and 4 SS adjustable dividers per drawer, installed in truck.
- 2) Seven (7) EZ latch Aluminum HD drawers (250 lbs. capacity each drawer) 29”W x 18”D x (1)-6”, (1)-5”, (5)-4”, overall height not to exceed 40.5” w/ aluminum base, w/2 F-B dividers and 6 SS adjustable dividers per drawer, installed in truck.  
All of the rollout drawers shall be of aluminum construction, 5052-H32.090 (28,000lb. yield strength). Each drawer must have a double latch assembly.
- 3) One pavement breaker, 60 lbs. class w/anti-vibration handles, Chicago Pneumatic Model CP1230 VRS or equal.