

## 020-19 – Appendix A – Group 2 SPECIFICATION, JEA CLASS 143: Truck / 5T VACUUM JET

### 1. SCOPE

It is the intent of the JEA to purchase **ONE (1)** 5 Ton 6X4 Vacuum Jet Truck. All units must be tested and delivered to JEA Fleet Facility (5717 New Kings Road Jacksonville, Florida 32209) in complete operational condition, with all required equipment and documentation by **SEPTEMBER 25, 2019**. Liquidated Damages (\$62.00 Per Unit, Per Day) start **September 25, 2019**.

### 2. MODEL:

New, current model year production **Class-8 Cab / Chassis** (Freightliner M2-112, International HX620, Kenworth T880, MACK Granite or Equal) with **15 CU YD to 16 CU YD Industrial Debris Tank** and **Roots 824 / 3600 CFM / 18"** and **80 GPM @ 3000 PSI Water Pump**. Reference: **JEA Unit # 70723** for general details, general layout and general clarification.



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**3. CAB / CHASSIS (CLASS-8). STANDARD CAB**

- 3.1 **Class-8 Tandem Axle** Cab/Chassis (66,000 LB GVWR).
- 3.2 **CA:** Not to Exceed **187"**.
- 3.3 **WB:** Not to Exceed **270"**.
- 3.4 **Overall Height:** From Level Ground to Highest Point on Vehicle not to Exceed **154"**.
- 3.5 **Overall Length:** Not to Exceed **492"**.
- 3.6 **Max Speed:** 72 MPH.

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4. ENGINE (REQUIRE **DETROIT DD13**, **MACK MP8**, **PACCAR MX13**, **DETROIT DD15** OR **CUMMINS X15**, DUE TO RELIABILITY / DURABILITY)
  - 4.1 **Horse Power:** Minimum 450 HP @ 1800 RPM.
  - 4.2 Torque Range: Minimum 1650 lbs. to 1850 lbs.
  - 4.3 **No** Automatic Idle Shutdown.
  - 4.4 Block Heater.
  - 4.6 Engine warning and shut down system.
  - 4.7 IDLE UP / Remote Throttle Option
5. TRANSMISSION
  - 5.1 Allison RDS 4500.
  - 5.2 PTO Provision
6. REAR AXLES
  - 6.1 **Air Ride** / **46K** with manual dump valve (Rated for Required GVWR and Application).
  - 6.2 Require Inter Axle Differential Lock.
  - 6.3 Require Side-to-Side Differential Locks on Both Drive Axles.
7. FRONT AXLE
  - 7.1 **20,000 lb.** with Oil Bathed Bearing/Hubs (Rated For Required GVWR).
8. TIRES
  - 8.1 **FRONT:** Floater **425 / 65 R22.5** Rated for GVWR.
  - 8.2 **REAR:** 11R 22.5 All Terrain Tread Rated for GVWR.
9. BRAKES (AIR DISC BRAKES)
  - 9.1 **Air Disc Brakes** with **Shields:** Front and Rear Axles.
  - 9.2 Anti-lock braking system.
  - 9.3 Automatic drain valves.
  - 9.4 Air Dryer.
  - 9.5 Low air pressure warning system.
10. COOLING SYSTEM
  - 10.1 Heavy duty extra cooling capacity, largest available from manufacturer.



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### 11. FUEL TANK

- 11.1 Minimum **100** gallon useable fuel capacity.

### 12. CHASSIS ELECTRICAL AND LIGHTING **(NO SCOTCH LOCK CONNECTIONS)**

**NOTE: WIRE ALL LED STROBE LIGHTS TO ONE OEM UP-FITTER SWITCH IN CAB with Label. WIRE ALL BIN LIGHTS TO ONE OEM UP-FITTER SWITCH. WIRE ALL AREA LIGHTS TO ONE UP-FITTER SWITCH. ALL LIGHTING, LED ONLY.**

- 12.1 **Meters:** Engine hour meter, PTO hour meter, transmission temperature, engine oil pressure, engine temperature, charging system, fuel level, air pressure and diesel exhaust fluid level (In Cab / Dash Mounted).
- 12.2 **OEM UP-FITTER SWITCHES/UPPER CONSOLE:** For wiring Strobe Lights, Area Lights & Etc.
- 12.3 **Auxiliary / Accessory Fuse BLOCK/Lugs:** To wire GPS, Fuel Rings, JEA RADIO, DC Accessory Power Outlets & Etc. See Example Below. Wire to Waterproof Resettable Breaker so we can isolate from vehicle if needed.

Blue Sea Systems ST Blade ATO/ATC Fuse Blocks  
Style Name: 12-Circ Split w/Cover & Neg



- 12.4 **MASTER SWITCH WITH LOCKOUT/TAGOUT:** In Cab, (Mitigate Dead Batteries Due To GPS & Etc.). **EXAMPLE: TR SERIES DUAL POLE MASTER DISCONNECT SWITCH (500A • DPST • IP67/IP69k • Integrated Lockout Tagout).**



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- 12.5 **All Cab / Chassis Lights:** LED ONLY.
- 12.6 **4** Corner Mounted LED Strobe Sights & **2** Recessed Amber LED Strobe Lights (3" or 4" Round or Oval Shape) mounted outside/center of Body (1 on DS & 1 on PS).
- 12.7 **Auxiliary Battery Jump Ports:** Insulated remote posts protected and mounted Drivers Side underneath cab body / close to batteries. (Do not mount over fuel tank!).



- 12.8 **DC Accessory Power Outlets:** THREE DC Power Outlets in cab for accessories with spring loaded cover (For Cell Phone Chargers & Etc.). See example below (NAPA Part Number & Picture): NAPA Part # BK 7821773 or equal. Power/Wire to the Auxiliary / Accessory Fuse BLOCK



- 12.9 **LED Post Mounted Spot Light,** Drivers Side.
- 12.10 **(1) LED GO-LIGHT / Remote Controlled:** Mounting location TBD (D Pelt).
- 12.11 **POWER PACKAGE:** Power Windows, Locks, Mirrors (Heated), Cruise Control & Tilt Wheel.
- 12.12 Factory installed air conditioner and heater.
- 12.13 Backup Camera (7" or 8" Color Monitor) and Backup Alarm.
- 12.14 AM / FM / Weather Band Stereo with Auxiliary Input and [Bluetooth/Hands Free](#).

#### 13. ADDITIONAL REQUIRED EQUIPMENT

- 13.1 **AIR RIDE DRIVER'S SEAT AND AIR RIDE PASSENGERS SEAT WITH COLLAPSIBLE ARMREST AND HEAD REST.**
- 13.2 Front bumper.
- 13.3 **Tow/Recovery Hooks:** Front & Rear.
- 13.4 (2) Two fender/hood mounted mirrors (Passenger & Drivers Side for Blind Spots).
- 13.5 **Window Tint:** driver, passenger & rear windows (Max Legal in FL).

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13.6 **Cup Holders:** Minimum 2.

13.7 Interior / Forward / Roof Mounted Console with storage compartments.

#### **VACUUM / JET ATTACHMENTS: 15 CUBIC YARD to 16 CUBIC YARD DEBRIS TANK, POSITIVE DISPLACEMENT PUMP & ACCESORIES**

#### **14. DEBRIS TANK & WATER TANKS**

14.1 15 to 16 Cubic Yard Debris Tank with Hydraulic Actuated **Rear Industrial Door** with **Hydraulic Actuated Locks**.

14.2 **Positive Displacement Blower:** Roots 824 / 3600 CFM / 18".

14.3 Rear Splash Guard.

14.4 Screen assembly over rear drain port.

14.5 5" Butterfly Valve with 10' lay flat hose.

14.6 Power Flush Out System (6 to 8 Jets).

14.7 1300 Gallon Water Capacity.

14.8 10' Telescopic Boom with Industrial Grade Elbow or Equivalent.

14.9 Pendant Controlled Engine Idle Control.

14.10 Debris Tank Up Audible Alarm with LED Light.

14.11 **Deflector Plate:** Protect rear door.

#### **15. HOSE REEL (800' CAPACITY / FRONT MOUNTED) & PUMP**

15.1 800' X 1" Sewer Hose with 10' Leader Hose, Footage Counter and Dual Roller Guide (3000 PSI BLUE).

15.2 **PUMP:** 80 GPM @ 3000 PSI with Pulsation Feature & Air Purge System.

#### **16. ADDITIONAL EQUIPMENT REQUIRED**

16.1 Automatic Continuous Fill System with Filter (Back Flow Prevention).

16.2 Variable Flow Valve.

16.3 Tool Box Mounted behind cab. Alternate size / location may be accepted if functional per End Users.

16.4 Lazy Susan Pipe Rack (5-pipe capacity) & **20'** of Aluminum Pipe Extension Tubes.

16.5 Retractable Hand Gun Hose Reel (50' Hose).

16.6 LED Directional Arrow Bar (Mounted Topside Rear Debris Door). **Superior Signal SY800-LED-50 or EQUAL.**

16.7 Mirror mounted LED Strobe Lights (PS & DS).

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- 16.8 Boom and Rear Door Mounted LED Flood Lights.
- 16.9 **LED AREA LIGHTS:** under Front Hose Reel, under Driver & Passenger Steps and under Rear Debris Tank.
- 16.10 Low Water Alarm with Light.
- 16.11 LED Hand Held Spot Light.
- 16.12 Automatic Lubrication System [LINCOLN or EQUAL].
- 16.13 Install Juke Rod Holder.
- 16.14 Install Grease Release Metering Kit.
- 16.15 Include Can Bus System. Must be able to track actual Blower Run Time and Pump Run Time.
- 16.16 Wireless Remote Control with Emergency Stop.
- 16.17 Weatherproof Tool Storage Bin: 24"X24"X24" Mounted Drivers Side.
- 16.18 **CONE HOLDER:** Location TBD (D PELT).
- 16.19 Gallons Per Minute Meter and Water Level Indicator: Operator Station.

#### 17. DEBRIS BODY LOAD INDICATOR & LOAD LIMIT ALARM

- 17.1 Load limit alarm with light.
- 17.2 Load level indicator.

#### 18. COLOR / GRAPHICS

- 18.1 White exterior.
- 18.2 Delete all vendor and manufacturer identification decals **except required** safety & reference identification tags, decals, data plates & placards.

#### 19. MANUALS, VIDEOS, KEYS & OPERATOR ORIENTATION

- 19.1 (1) set of operator manuals per unit (HARD COPY). (1) Electronic Copy maintenance, repair & parts manuals.
- 19.2 KEY BOTH UNITS ALIKE (JEA Will Provide Key Code Pending Cab/Chassis Manufacturer). (5) complete sets of keys per unit Including Attachments, Bins & Tool Boxes. Key All Bins & Tool Boxes Alike. Stamp/Engrave JEA PROVIDED 5 Digit Unit Number On All Keys.
- 19.3 (1) On-Site JEA Operator Orientation Class (Complete Unit Overview: Chassis & Attachments).
- 19.4 (1) On-Site JEA Maintenance Orientation Class (Complete Unit: Chassis & Attachments).
- 19.5 Include a paper copy **Specification / Build Sheet / Drawings** in all units including Key Codes.

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#### 20. DRAWINGS

- 20.1 Scaled Drawings will be provided to JEA upon receipt of order. Drawings will include all interior/exterior and equipment layout details & dimensions. Final Drawings / Layout will be approved by JEA before work is started. Include one electronic copy (Flash Drive).

#### 21. WARRANTY

- 21.1 Minimum (1) ONE Year Warranty on Chassis & All Attachments (Parts, Travel & Labor). Must include all standard manufacturer warranties.
- 21.2 OPTIONAL 1 YEAR EXTENDED WARRANTY on Chassis & All Attachments (Parts, Travel & Labor): Quote Separately.

#### 22. OTHER REQUIREMENTS

- 22.1 Purchase / Install CITY License Plates.
- 22.2 Install JEA provided Branding / Decals.
- 22.3 Install JEA provided required safety equipment: purple-k fire extinguisher, first aid kit and key safe.
- 22.4 Current **DOT** Inspection / Certification with Decal installed lower left inside corner of windshield.
- 22.5 Must include/document the **Vin Number, Make, Model, Description, JEA P.O. #, and JEA Provided 5 Digit Unit Number** on all Invoices and Change Order Invoices.
- 22.6 Install **Vehicle Height Warning Placard** with Height (Feet / Inches) in cab on the dash (Drivers View) and on the outside / driver's door, by door handle.
- 21.7 Install Decibel Level/Warning Decals close to controls.
- 21.8 Reflective Roadside Triangle Warning/Hazard Kit.



**NOTE:** All Units, Attachments, Products & Services must meet & comply with all applicable regulations and specifications including but not limited to Federal and State Laws, OSHA Regulations, ANSI Standards, DOT Regulations and ASTM Standards. All Units must be delivered to the JEA Fleet Facility with a minimum  $\frac{3}{4}$  tank of fuel. Contact **Mark Murray** at **904-328-8501** 48 Hours prior to delivery. Delivery times are **Monday** through **Friday 08:00 AM – 03:00 PM** at **5717 New Kings Road Jacksonville Florida, 32209**.



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