



**Joe Johnson
Equipment**

Subsidiary Of Federal Signal Corporation



May 1, 2023

John Yungblut, C.E.T.
Director of Public Works
Township of Huron-Kinloss
21 Queen St
Ripley, ON NOG 2R0

Dear John,

Re: Elgin Whirlwind1 Vacuum Street Sweeper – Canoe Contract 093021- ELG

We would like to take this opportunity to thank you for your continued interest in Joe Johnson Equipment (JJE) and Elgin's industry-leading line of innovative street sweeping products.

JJE is pleased to present the following quotation to provide one (1) new Elgin Whirlwind1 Single Engine Vacuum Street Sweeper, mounted on a new stock Freightliner M2-106 chassis.

We look forward to assisting with this equipment requirement and please do not hesitate to contact us if you have any questions.

Respectfully Submitted,

Marc Youell
Regional Sales Manager
Joe Johnson Equipment
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2521 Bowman St. Innisfil, ON L9S 3V6

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CANOE QUOTATION
CONTRACT NUMBER: #093021-ELG

To provide One (1) New Elgin Whirlwind1 Single-Engine, Dual Side Broom (36") street sweeper module, mounted on a new stock Freightliner M2-106 chassis, complete with standard equipment as follows:

Single Engine System - Variable Speed Device (VSD):

- Replaces auxiliary engine; installed between the chassis engine and the Allison transmission
- "Road Mode" VSD produces 1:1 speed ratio between chassis and transmission
- "Work Mode" VSD allows chassis accelerator pedal to control input to transmission and engine speed remains constant - fan speed is adjustable
 - - Singular in-cab push button control
 - - No parking brake requirement
 - - No complex EPA off-highway aftertreatment system
- Type Planetary Gearbox Design
- Horsepower 240 (179 kW) approved input rating
- Torque 560 ft-lb approved input rating

Chassis Engine*

- Make Cummins ISB 6.7 or equivalent
- Type in-Line 6 cylinder, turbocharged diesel
- Displacement 409 cu. In. (6.7 L)
- Torque 520 ft-lbs (708 Nm) @ 1600 RPM
- Fuel Tank Capacity 50 gal (189 L)

Electrical System:

- Chassis Battery Rating 12 volt
- Sweeper Battery Rating 1000CCA
- Chassis Engine Alternator 160 amperes
- Lights Side broom, rear clearance, rear identification
- Reversing Safety Electric back-up alarm, sweep components raise automatically
- Wiring Harnesses Color coded, function stamped and labeled every 4 in (100 mm)
- Rear Back Up Camera

Instrumentation / Controls:

- Rocker switches in central console gauges:
 - Blower tachometer, hour meter, fuel, voltmeter, coolant temperature, spray water level gauge, hopper up, hopper rear door open, full load indicator
- Memory Sweep resume feature
- VSD Mounted Oil Level Sight Gauge



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Sweeping Path (with 36" side broom):

- Suction nozzle only – 32"
- Suction nozzle and one side broom – 52"
- Suction nozzle and extension broom – 78"
- Dual suction nozzles, side brooms & extension broom – 144"

Blower (Fan):

- Drive: Direct Jaw-type coupling with hydraulic 2.87 cu-in displacement bent axis motor
- 20,000 CFM @ 4,000 RPM
- Hardox Steel Blower Construction
- 10 gauge steel blower housing, rubber-lined for extended wear

Vacuum Nozzle and Hose:

- 32" nozzle width
- 174 in² pickup area
- Abrasion-resistant steel components
- Quick disconnect type hose connection at lower area near vacuum nozzle
- Flexible rubber, steel-reinforced hose construction
- 11' inside diameter hose

Side Broom:

- 36" diameter
- Steel plate construction
- Speed constant
- Hydraulic motor driven, protected by relief valve
- Free-floating trailing arm
- Pneumatically inward / outward, raised / lowered motion
- Inward/outward, forward/backward tilt adjustment
- Digging pressure / wear control pneumatic in-cab
- Segment set disposable type constructed of tempered steel wire

Extension Broom:

- 16" diameter, 60" length
- Speed constant
- Hydraulic motor driven, protected by relief valve
- Digging pressure / wear control outside of cab
- Pneumatic lift control from control panel
- Polypropylene prefab, disposable located centre of sweeper

Debris Hopper:

- 8.0 yd³ volumetric capacity
- 10 degree floor angle / 50 degree dump angle



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- 10 gauge steel sides and top, ¼" gauge steel floor
- Lift: Double-acting hydraulic cylinder
- Hydraulic open / close and lock / unlock of hopper dump door
- Weight-actuated full load indicator with in-cab warning light
- Safety props: steel bar under body and outside rear door
- Hinged, quick release, steel hopper screens
- Push button hopper dumping controls on right side of unit
- In-cab dumping controls

Spray Water System:

- Dual polyethylene-constructed, removable water tank construction
- 335 gallon water system capacity
- Twin diaphragm pump with run-dry capability with high and low selectable pump speeds
- 8 GPM system flow, 40 PSI system pressure
- Spray nozzles (quick disconnect type)
 - 7 inside each suction nozzle
 - 4 at extension broom
 - 3 at each side broom
- On / off controls at control panel
- 100 mesh, cleanable filter
- Anti-siphon fill
- 16ft 8in hydrant fill hose

Hydraulic System:

- Powers hydraulic motors on side brooms, blower fan and activates and hopper cycle
- Hydraulic Blower Pump: Variable – piston type with 4.2 cu-in / rev rating
- Hydraulic Sweeper Pump: Gear driven with a capacity of 32.2 GPM @ 2400; sweeper brooms and hopper dump
- 23 gallon capacity reservoir
- Filter Sweeper Functions System: 10 micron spin-on type filter, twin suction strainers 100 mesh. Cooler hydraulic system accessible without raising hopper
- Filter Blower System: 6 micron canister type
- Filter Reservoir Vent: 10 micron spin-on type breather
- Alarm For Low Hyd Oil / High Hyd Temp

Additional Options Included:

- Variable Speed Dual Side Brooms
- Side Broom Tilt Left Hand with Display 36"
- Side Broom Tilt Right Hand with Display 36"
- Air Purge
- Right Hand Inspection Door & Step
- 6" Hopper Drain



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- Rear LED flood Lights
- Cab/2 RR LED Beacon
- Hydraulic Wandering Hose (use w/Dual Sidebroom & Variable Speed)
- Hopper Deluge
- High Pressure Washdown – High PSI At low RMP
- High Pressure Washdown Hose Reel (Use w/Right hand inspection Door)
- LED/Stop/Tail/Rear Turn Lights
- Two (2) Extra Key
- Front spray Bar - Dual
- Idle Down/No Water – Dual Sidebrooms
- Dual Auto Shutter
- LifeLiner Hopper System with Warranty

Mounted on a new stock Freightliner M2 chassis.

Purchase Price\$488,752.51

Terms & Conditions
 Pricing in Canadian dollars, excluding applicable taxes
 F.O.B.: Huron-Kinloss, ON
 Payment: Net 30 days
 Quotation valid for 14 days
 Delivery: to be confirmed at time of order



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