

MEMORANDUM

DATE: November 20, 2018
TO: Mayor White & City Council
VIA: Mercy Rushing, City Administrator
FROM: William Crump, Public Works Director
SUBJECT: Meredith Request – Street Department

Street Department

The Street Department is requesting to replace our 2005 ODB Leaf Truck. This is the truck the city uses to pick up leaves for the entire city of Mineola. Our old truck is aging and it is difficult to get the parts required to keep it running. The cost for a new truck is \$195,917. Please see attached quote from November, 2018.

Given that the old truck is over 13 years old, it still works. The City plans to keep it as a backup truck if needed, and a secondary truck when volume is high. The citizens have come to enjoy this service and rely on us to be prompt with leaf pickup, as with limb pickup.

We appreciate your consideration of this request.



City of Mineola
1824 N. Pacific
Mineola, TX 75773

William Crump: wcrump@mineola.com or 903-569-2535

SKU#	ODB Model SCL800SM25	MSRP
SCL800SM25.JD74	Powered by John Deere 4045TFC03 diesel 4 cyl. engine rated for 74 HP Final Tier 4 ** Hopper - 25 cubic yards with single top hinged rear door and manual latches 32" diameter suction impeller with six 3/8" thick T-1 steel blades *Kubota 30" diameter suction impeller with six 3/8" thick T-1 steel blades *JD 3 axis (up/down; left/right & in/out) hose boom with proportional hydraulics 4-groove power band belt drive for suction impeller 16" diameter x 120" urethane suction hose with steel nozzle 13" clutch assembly with a 2.25" diameter PTO shaft & safety engagement Boxed perforated pleated radiator screen F/S CAMSET56-NTSC-2 rear color camera with 5.6" screen with audio - installed Light bar on hopper nose cone with 4 front facing amber flashing LED lights Hydraulic rear door latches for single top hinged door 3 axis (up/down; left/right & in/out) hose boom with proportional hydraulics Remote electric throttle Remote electric clutch engagement 44-gallon polyethylene fuel tank Electronic engine controls with engine safety shut down system Underbody type hoist that dumps to 52 degrees and is power up/down Gear driven hydraulic pump powers the 21.5 ton capacity hoist LED type DOT lights and 2 oval LED amber flasher lights at rear 4 oval LED flasher on top front of hopper All components pre-painted prior to assembly - standard color is white Mounted on approved chassis	\$ 84,349.00
8OPT	BE (bottom exhaust) for 25 cubic yard units	\$ 8,268.00
SCL805.810.P	11 gauge perforated top screens with 3/16" holes in lieu of standard	\$ 2,652.00
	2018/2019 Freightliner M2 chassis with dual steering	\$ 97,000.00



Equipment Total:	\$ 95,269.00
Chassis Through Pricing	\$ 97,000.00
Net Equipment Cost:	\$ 192,269.00
Freight:	\$ 3,648.00
Net Equipment Total:	\$ 195,917.00

Options available for your consideration:

SCL800SM25.K87	Powered by Kubota WG3800-G-E3 4 cyl. gasoline rated for 87 HP	\$ 77,901.00
	Single axis boom, top hinged rear door w/manual latches (DEDUCT)	\$ (15,000.00)
SP.PNT.SCL	Special hopper paint in lieu of standard white	\$ 988.00
ODB.HL	Hook lift version with sub-frame	\$ -
SCL800.029	Air Scoop to redirect exhausted air towards rear of unit	\$ 2,652.00
SCL800.CDH.OPT	Chipper door and trailer hitch with wiring (no brake controller)	\$ 2,756.00
SCL800.CD.OPT	Chipper door only	\$ 1,336.00
2248X.PTO.KIT.I	Fluid Drive coupler in lieu of standard clutch	\$ 4,082.00
MDH.16.120	HD Rubber suction hose in lieu of urethane (N/A with 3-Axis boom)	\$ 780.00
ODTDDL15-47CUS	LED Traffic directional light bar mounted on the rear door	\$ 1,326.00
EP2DSMDFG	Two (2) surface mounted LED flashers mounted in front bumper	\$ 1,019.00
LCT620.602.U	Urethane coated liners for blower housing	\$ 1,040.00
SCL800.LH	Driver's (street) side pickup (Not available with 3-Axis option)	\$ 1,872.00

M21F	Outside air heater filter, M2 freightliner	\$	250.00
A22549855	screen assembly, M2 freightliner	\$	307.00
SCL800.TB	Tool box & Mount Installed	\$	1,200.00
	mounted on customer chassis - NEW	\$	2,500.00
	mounted on customer chassis - USED	\$	3,500.00

All terms are FOB Richmond Virginia & this is a valid quote for 60 days unless otherwise agreed

Thank you, Shaunna Britton sbritton@odbco.com or 804-239-3048

ODB

Truck Specification

2018 Freightliner M2-106 Dual Steer Cab & Chassis
VIN White # N0006EA

Cummins ISL 6 cylinder turbocharged diesel (8.9L)
270 HP @ 2000 RPM; 800 lb/ft torque @ 1300 RPM
50 state emissions with clean idle certification
1100 square inch radiator w/drain valve; Gates hoses
Horton Drivemaster on/off fan clutch with dash control
Donaldson PowerCore air cleaner
Phillips 1000 watt block heater
Right hand horizontal after treatment device & tailpipe
Cummins 18.7 CFM air compressor
Delco 28-SI 12 volt 160 amp quadramount alternator
(2) Alliance Group 31 12 volt 1850 CCA batteries
Frame mounted battery box left side under cab
Electric disconnect switch inside cab on driver's side
Positive and negative jump start posts
Delco 12 volt 38MT series heavy duty starter
Allison 3500 RDS 6 speed automatic transmission
Dash mounted push button electronic shift controls
Castrol Transynd automatic transmission fluid
Water to oil transmission cooler (in radiator tank)
Interface wiring & PDM with end of frame connection
Meritor MFS-12-143A 12,000 lb. set back front axle
14,600 lb. flat leaf front spring suspension
Heavy duty front suspension stabilizer bar
TRW THP-60 power steering
Chicago Rawhide Scotseal Plus XL front oil seals
Chicago Rawhide caps with rubber plug in window
Synthetic lubrication SAE 75W-90W
Meritor 16.5 x 5 Q-Plus brakes with cast iron drums
Meritor automatic slack adjusters; front dust shields
Graphite bronze bushings with seals; front shocks
Meritor RS-23-160R 23,000 lb rear axle; 6.43 ratio
Driver controlled differential lock with buzzer & light
Meritor 17T driveline with half round yokes
Chicago Rawhide Scotseal Plus XL rear oil seals
Synthetic lubrication SAE 75W-90W
Meritor 16.5 x 7 Q-Plus brakes with cast iron drums
Meritor automatic slack adjusters; rear dust shields
Custom 30,000 lb. rear spring suspension with steel helper springs and radius rods, modified and designed to maintain 25 cu. yd. leaf collector in a level position in both a static empty as well as a fully loaded condition
Air brake system (WABCO 4S/4M ABS)
Meritor SS1200 Plus heated air brake dryer
Pull cables on air reservoirs (mounted under RH steps)
Huck-spin round collar chassis fasteners

225" wheelbase (159" cab-to-axle; 59" frame overhang)
11/32" x 3-1/2" x 10-15/16" steel frame with clear rails
Section modulus: 16.979 cu. in. (per rail)
RBM: 2,040,000 lbf. in. Yield strength: 120,000 PSI
Left hand 50 gallon rectangular aluminum fuel tank
Left Hand 6 gallon diesel exhaust fluid (DEF) tank
Davco Diesel Pro 233 12v heated fuel/water separator
11R22.5 14 ply radial front tires
11R22.5 14 ply radial rear lug tires
Accuride 22.5 x 8.25 hub pilot 2 hand hole steel wheels
Conmet iron front and rear hubs
Freightliner 106" BBC alum cab with leaf spring mounts
14" 3-piece painted steel bumper with collapsible ends
Dual frame mounted front tow hooks
Left hand and right hand steering and controls
LED aerodynamic cab marker lights; LED tail lights
Removable bug screen mounted in front of grille
Dual bright finish remote control heated mirrors
Dual 8" bright finish heated convex mirrors
Dual fender mounted 8" bright finish convex mirrors
Left & right hand exterior cab grab handles
All windows tinted with operating wing windows
Single 11" air horn under deck; dual electric horns
Custom gray vinyl interior; alum scuff plates on doors
Level cab entry steps on both sides
Silencer package (heavy duty insulation incl. firewall)
Dual dash mounted cup holders & cigarette lighter
Air conditioning, heater, defroster w/electronic controls
Solid state circuit protection and fuses
Dome light activated by left or right hand door
Dual high back air ride seats
Black Cordura Plus cloth covering on both seats
Arm rest on right hand seat
Storage console mounted between seats on cab backwall
Dual 18" four spoke steering wheels
Modified dashboard (console removed) with custom dash switch arrangement as required for left or right side
LH and RH gauge panels with speedometer, tachometer, oil pressure, engine coolant temperature, air pressure, transmission oil temperature, voltmeter, hour meter, and fuel gauges
Intake mounted air restriction gauge with graduations
Cruise control)
Four extra dash rocker switches wired to back of cab
AM/FM weather band stereo radio
Two speed electric windshield wipers with delay feature
87-112 decibel self-adjusting electric backup alarm
GVW Rating of Vehicle = 35,000 lbs.

SCL800SM-3X

"One Person Operation" Leaf Collector



ODB Company

Municipal Products Since 1910

800-446-9823

www.leafcollector.com

- Reduce Labor Costs
- Collect Leaves Faster
- Increase Productivity
- Save Money

**Your City or Town
Can't Afford Not
to Have One!**

- ▶ The fast, efficient way to collect leaves.
- ▶ One person, one vehicle
- ▶ Collect leaves safely, without mess from the cab of the truck.





SCL800SM-3X



IN-CAB CONTROLS

The entire leaf collection process is controlled from the cab. All controls and engine monitoring is done by a multi-function joystick and the full color IQAN display system with 3.5" transfective TFT color display. This system completely controls and monitors the engine, boom and hydraulic systems.



3 AXIS BOOM ASSEMBLY

ODB's 3 axis boom allows smooth, precise movement of the suction hose to the leaf pile. Combining two hydraulic cylinders for the up/down and in/out movements, plus a planetary, wheel drive hydraulic motor for the left/right movement allows the operator to place the suction hose in the desired location smoothly and precisely. The boom is controlled with a joystick located in the cab for effortless leaf collection.



BOOM SUPPORT MOUNT

ODB's 3 axis boom is supported on its own tubular steel mount. This keeps the weight of the boom off the blower housing making for a sturdier boom. The boom support is hinged to allow the blower housing face to be removed without having to remove the entire boom assembly or without having to disconnect any hydraulic lines. This is a tremendous labor saving feature.



SCL800SM-3X Computer Control "One Person Operation" Leaf Collector

IQAN, Computer Controlled Automated Leaf Collection

Computer controls provide "real-time" engine and control monitoring. This allows for automated safety features to keep the unit working efficiently for years to come.



IQAN Computer Controls provide real-time system monitoring with alarm logging and full color, on-screen error messages.



IQAN System Controls



IQAN controls allows for a "user friendly" access to all controls and features. Simple function keys and full color graphics allow the operator to easily use all the features of the unit.



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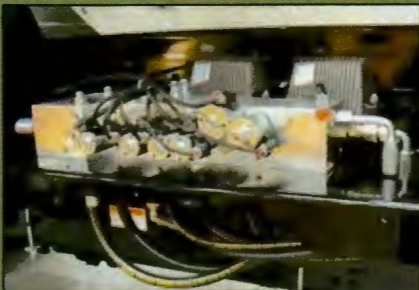
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“One Person Operation” Leaf Collector

IQAN Display System



Dual Function Valve Body



Joystick Assembly



FEATURES

IQAN DISPLAY SYSTEM - By Parker Hydraulics

- User friendly - Full Color graphics, anyone can operate it.
- Simple logic driven menu's make performing tasks extremely easy and efficient.
- Easily customizable to work the way the operator wants it to work.

COMPUTER CONTROLS

- Real time monitoring of engine and system functions.
- Real time alerts and warnings of system errors.
- Alert logging with time and date.
- Safety “controlled shutdown” of unit when critical errors are reached. For instance, this prevents shutting down the engine immediately at full throttle with the PTO engaged - serious damage to the PTO could occur. The computer system will automatically shutdown the unit in a safe manner to prevent such damage.
- Prevents harmful operator actions such as trying to dump the body with the doors locked (a warning message will appear on the screen to let you know that this can not be done.)

VALVE BODY

The multi function, proportional valve body allows the boom to be moved in multiple directions at the same time as well as giving precise speed control of the boom. The proportional valve allows the user to precisely control the speed the boom moves by how much pressure the user applies to the joystick. This makes the boom move more accurately, faster and is much easier on the the mechanical components of the boom - thus extending the life of the boom.

JOYSTICK

The joystick is conveniently mounted in the armrest (Freightliner trucks) of the truck for great access. The proportional joystick controls the boom direction, speed, engine throttle and box container dump.

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Bottom Exhaust System (Add-On Option for SCL800 units)

Optional Bottom Exhaust System re-directs the unit's exhaust to the ground, keeps debris from flying high into the air.



Air is vented through heavy duty mesh screens mounted in the top of the box and then directed to the sides by all steel duct work and is exhausted on to the ground.

Directs air flow to the ground instead of high into the air.

Hinged doors allow easy access to the exhaust screens

Top of the unit is fully enclosed so debris will not fly overhead



Hinged doors allow easy access to the exhaust screens



Debris exhausts here to the ground



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SCL800SM-3X

"One Person Operation" Leaf Collector



The fast, efficient way to collect leaves. One person, one vehicle - Collect leaves safely, without mess from the cab of the truck.



- Reduce Labor Costs
- Collect Leaves Faster
- Increase Productivity
- Save Money

One Man controls the entire leaf collection process from the cab of the truck. The operator controls the engine, engage / disengage PTO, controls the suction hose and dumps the body without ever leaving the truck. There is no leaf crew or operator fatigue and leaves are collected up to 25% faster than with traditional leaf crew units.



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SCL800SM-3X

All specifications subject to change without notice.

"One Person Operation" Leaf Collector

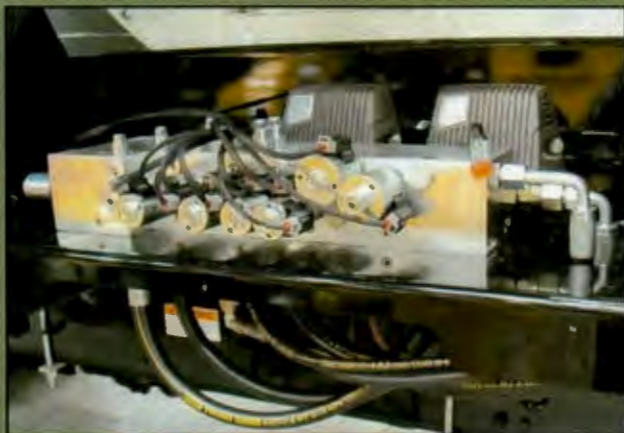
Engine (Std)	Kubota WG380-G-E3 4-cylinder, 87HP gasoline engine, meets EPA Tier 2 and CARB Tier 3 emission standards	
Engine (option)	John Deere 4045TFC03 diesel 4-cylinder rated at 74HP - Final Tier 4 (uses 30" diam. impeller)	
Engine (option)	John Deere 4045HFC04 diesel 4-cylinder rated at 85HP - Final Tier 4	
Air Cleaner	Dry element with pre-cleaner.	
Radiator	Pressurized, heavy duty with 6-blade fan.	
Radiator Screen	Constructed of ½" expanded flattened steel with steel mesh. Screen is bottom hinged to allow for cleaning without powering down the engine.	
Engine Controls	All engine controls and engine monitoring is through the IQAN full-color display system. Engine RPM, oil pressure, water temperature and fuel levels are displayed on the 3.5" transfective TFT full color display. There is an automatic safety shutdown for high temperature or low oil pressure.	
PTO	Heavy duty 13" automotive style PTO and clutch with safety engagement system.	
Safety Engagement	PTO is equipped with a safety engagement system which prevents abrupt engagement of the PTO at high RPM's.	
Belt Drive	Power is transferred from the engine to the impeller via a 4-groove power band belt. The power band is adjusted by raising and lowering the engine by simply turning four, 2" diameter engine supports.	
Skid (truck-mounted)	Heavy-duty channel steel construction, formed and welded. Skid is constructed of 3" x 8" tubular steel with a 1/4" wall thickness. Designed to mount on any truck with 32" centers. The skid frame supports the power unit and self-dumping box container.	
Skid (hook-lift)	Heavy duty A-framed skid. The frame assembly is constructed of 8" x 2" x 1/4" thick steel tubing. The A-frame and rear lock-downs are manufactured to specific manufacturer's specifications. The two steel rollers are 8" wide by 4" diameter with 1/4" thick tubing.	
Lighting	LED type stop/turn signals as well as clearance lights; rear of unit has 2 oval LED amber strobe lights. Trailer has reflective tape running the length of the unit.	
Impeller	32" (30" J/D 74HP engine) diameter with 6 gusseted blades constructed of 3/8" thick abrasive resistant T-1 steel with a Brinell hardness exceeding 400. Each blade is gusseted on the back side and welded to a ¼" thick backing plate. Impeller blades are flat with serrated tips for increased wear. Impeller is secured to the shaft via a taper locking bushing. The impeller is completely stress relieved via Bonal stress relief technology.	
Blower Housing	45-degree exhaust. Outer housing is constructed of 10 gauge welded steel, front and back plates are 7-gauge steel. Inspection / clean out door is located on the face to facilitate convenient inspection of internal contents or condition. A safety kill switch is located on the door to shut down the engine when the door is opened.	
Liners	Slip-in style which require no bolts. Made of ¼" abrasive resistant steel.	
Suction Inlet	Located on curb side of unit capable of a 180 degree range of motion.	
Intake Hose	16" diameter x 144" long. Heavy duty wire reinforced urethane hose.	
Hose Boom	Three axis hydraulically controlled boom assembly. The boom moves up/down, in/out via 2" hydraulic cylinders and left/right via a planetary wheel drive motor. Incorporating a fully adjustable proportional hydraulic system, the operator can precisely maneuver the boom placement and speed from a joystick controller mounted in the cab.	
Boom Controls	Proportional joystick mounted in the cab controls the boom movement as well as the engine's RPMs. A time-sensitive "dead man" trigger is provided on the joystick for operator safety.	
Hydraulics	The hydraulics for all boom functions, as well as dumping and optional rear-door latches, are provided through a gear-driven pump off the engine's auxillary drive. The proportional hydraulic valve body provides the operator with precise and adjustable speed control. Multi-function boom movements are capable with the proportional hydraulics. The valve body is conveniently mounted below the H-frame assembly on the boom. A steel hydraulic reservoir is provided along with proper hydraulic filters for worry free operations.	
Dumping Hoist	Uses a Crysteel scissor style hoist capable of dumping 30,400 pounds for the 14CY, 43,000 pounds for the 20 CY and 53,200 pounds for the 25 and 30 CY units.	
Vented Top Screens	Easily removable ½" expanded steel mesh screens are located on the top of the box container.	
Fuel Tank	44 gallon capacity fuel tank manufactured of ¼" thick roto-molded polyethylene.	
Paint	All metal parts are thoroughly cleaned, primed, painted and dried before assembly. Each part is primed with a rust inhibitor primer and is painted with two coats of automotive quality paint. The parts are then assembled on the unit so that bolts, nuts, cables and grease fittings are not painted.	
Options	<ul style="list-style-type: none"> ● Hopper painted customer color in lieu of standard white ● Chipper Door with trailer hitch ● BE (bottom exhaust) redirects air to ground ● Air scoop for top of hopper to redirect air towards rear. ● Front light bar with 4 amber LEDlights 	<ul style="list-style-type: none"> ● Front light bar with 4 amber LED lights ● Rear camera system ● Rear arrow stick ● Fluid drive coupler in lieu of standard clutch ● Hydraulic tailgate latch controls

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“One Person Operation” Leaf Collector

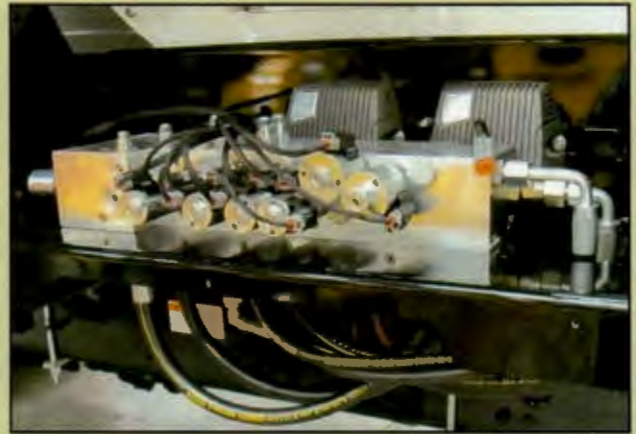
MULTI FUNCTION, PROPORTIONAL VALVE BODY

The heart of the multi-axis hose boom is the state-of-the-art valve body. The multi-function proportional valve body allows the boom to be moved in multiple directions at the same time as well as allowing the user to precisely control the speed of the boom. If the user moves the joystick slightly to the left the boom moves slowly left, but if the user moves the joystick all the way to the left then the boom moves to the left much faster. This valve body includes a pressure relief valve, “dead man cartridge”, flow divider and multi-port cartridges and solenoid assemblies. The entire assembly is conveniently located for easy access to all components of the valve body assembly.



AUTOMATIC DOOR LATCH

The top hinge door and hydraulically controlled door latches allow the operator to open and close the rear door with the press of a switch from inside the cab.



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