



# Antrim County Road Commission

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## NOTICE TO TRUCK BIDDERS

Sealed bids will be received for the purchase of two (2) current model year tandem axle trucks until 1:00 PM, Monday, November 7, 2016, at which time they will be publicly opened and read. Bids shall be received at the office of the Antrim County Road Commission, PO Box 308, 319 E. Lincoln St, Mancelona, Michigan 49659-0308. Bids will be tabulated and a recommendation will be made to the Board of County Road Commissioners at their next regular meeting.

### General Description

These specifications are for two (2) current model year tandem axle cab and chassis' having a GVWR of 64,000 pounds. These trucks will be used as heavy duty road maintenance vehicles and will be equipped with underbody scrapers, 13 foot all-purpose material spreaders with on board pre-wet capabilities, front snow plows and side mounted snow wings. The trucks shall also be equipped with trailer connections and controls.

These are minimum specifications. Pricing shall include manufacturers' standard warranty. Extended warranty packages will be priced separately as an optional bid. Bidders may recommend options, indicating specifications and pricing for each.

### General Specifications

GVWR	64,000 pounds
Wheelbase WB	205 inches
Cab to Trunion CA	Approximately 132 inches
After frame EOF	65 inches
Bumper to Back of Cab BBC	123 inches
Front axle FA	Set back with a capacity of 20,000 pounds
Rear axle RA	46,000 pounds

Exact specifications are to confirmed with the body builder prior to ordering

### Engine

Detroit Diesel Model DD-13 or Cummins Model ISX12  
410 HP at rated RPM, 1550 lb/ft torque at rated RPM  
Must meet 2013 EPA/Carb emission regulations  
DEF tank and hoses, of sufficient length. to allow for relocation by body builder  
12V, 160A pad mounted alternator  
19 CFM single cylinder air compressor  
Engine braking capabilities  
Air conditioning compressor  
Kysor air operated fan clutch  
1350 Adapter flange for front mounted PTO

**Engine (cont)**

12V, 39MT starter

Three (3) Group 31S 1000CCA AGM batteries

Winterized to -34F

Radiator shall be sized to allow for crankshaft mount PTO

Provisions for inside/outside air intake, selectable from dash mounted switch

Real time vehicle system monitoring software shall be installed and activated at the time of delivery, coordinate with the Road Commission for contact information

**Aftertreatment device**

If possible, the aftertreatment device is to be of a compact design

To be located vertically, behind the cab, on the passenger side

**Transmission**

Eaton Ultrashift Plus Vocational Transmission

Eaton-Fuller Model FO-16E308LL

All cab mounted warning lights and temperature gauges

Transmission shall have a pedestal mounted, “cobra head” style controller

Vehicle speed sensor shall have dual leads, to allow for ground speed sander control connection without splicing

Low speed capabilities of approximately 5 MPH at rated RPM without braking

Top speed at rated RPM shall be 55MPH

Must maintain 24” ground clearance

Driveline to have all 1810 half-round u-joints

**Frame**

Single rail frame

Frame shall have these minimum specifications:

Section modulus            21.0 in<sup>3</sup>

RBM                            2,500,000 inch pounds

120 KSI

Front frame extensions, 20” minimum

Front frame shall not be splayed

Front frame reinforcement as necessary for front mount snow plow

65” end of frame

Rear most cross member shall be tubular

All items attached to the frame must maintain a 24” ground clearance

**Front axle and suspension**

20,000 pound single front axle

Iron, hub piloted, front hubs with vented hub caps, window and center plug

Dual power steering gearboxes

Synthetic 75W-90 front axle lube

22,000 pound leaf springs

Heavy duty front shock absorbers

### **Rear axle and suspension**

46,000 tandem rear axle, RT-46-160 or equivalent  
Gear ratio compatible for 55 MPH  
Iron, hub piloted, hubs  
Rear ends are to be of an axle lock design and shall be controlled from the cab  
Synthetic 75W-90 rear axle lube  
Hendrickson Haulmax rear suspension, 10.5" ride height  
Four (4) heavy duty shock absorbers

### **Braking System**

Braking system shall be air disc design  
Heavy duty calipers with dual pistons  
ABS to be 6S/6M with driver controlled ATS shut-off  
All steel tanks, must maintain 24" ground clearance  
Air dryer with governor and heater  
Rear brake geometry to allow for asphalt spreader

### **Chassis equipment and fuel tanks**

Omit front bumper  
Front mounted tow hooks, coordinate with bodybuilder for placement  
No rear mud flaps or brackets  
Transit fuel tank only

### **Trailer Connections**

Both air and electrical lines shall be provided and run to the rear of the chassis, with approximately six (6) feet of extra cable.  
The lines shall be terminated with glad hands and a SAE J560 7 wire trailer receptacle, respectively.  
The lines shall be coiled and secured, not mounted, at the end of the chassis.

### **Tires and Wheels**

Michelin XZY-3 385/70R22.5 20 ply front tires  
Michelin XDE M/S 11R22.5 16 ply rear tires  
All wheels shall be steel and sized appropriately  
All wheels shall be 10 bolt, hub piloted severe duty with two hand holes

### **Cab Exterior**

Aluminum/galvanized steel air ride conventional cab  
Bolt on flexible front fender extensions  
Integral halogen headlights  
All exterior lighting, with the exception of the headlights, are to be LED  
Integral stop/tail/turn/backup lighting with 7 feet additional wire at rear  
Auxiliary wiring harness to the front of the truck, to allow for plow and fog lights  
Tilt forward fiberglass hood with stationary front grille with fender extensions  
Dual roof mounted air horns

### **Cab Exterior (cont)**

Door locks and ignition keyed alike  
Furnish three (3) keys  
Grab handles on both sides  
Dual stainless steel heated west coast style mirrors, door mounted both sides  
Dual 8" convex mirrors mounted under primary mirrors, both sides  
Electric windows on both sides, controlled from drivers side  
Electric wipers with intermittent controls and washers on both sides  
Aluminum enclosure with integrated step on driver's side containing batteries  
Aluminum toolbox enclosure with integrated step on the passenger side

### **Cab Interior**

Deluxe soundproof interior with head and back wall liner  
Molded rubber floor mats  
Standard heater, defroster, air conditioner  
HVAC ducting to guard against snow infiltration on fresh air intake  
Deluxe high back air suspension driver seat with lumbar support and armrests  
Standard suspension passenger seat  
Steering column to be adjustable, with fore and aft tilt and telescopic functions  
Firewall mounted suspended brake pedal  
Door operated dome light  
All interior lighting to be LED  
Orange seatbelts on both sides  
Interior sun visors on both sides  
No fire extinguisher or safety triangles

### **Instruments and Controls**

All standard gauges, including but not limited to speedometer, tachometer, odometer, ammeter, hour meter and engine coolant temperature with warning buzzers  
Dual air gauges with warning buzzer  
Electric fuel gauge  
Electric DEF gauge  
Diagnostic interface connector, 9 pin, SAE J1939  
AM/FM radio with dual speakers with antenna mounted on left "A" pillar  
Solid state circuit protection and fuses  
12V, negative ground system  
Four (4) dash mounted auxiliary switches with indicator lights, switches are to be on individual 20 amp circuits. Switches are to factory labeled as follows; one (1) switch cover to be blank, one (1) labeled "strobe light", two (2) labeled "work light"  
Switch for plow light package  
Switch for fog light circuit  
Turn signal switch with dimmer and washer/wiper control  
Necessary controls for trailer package  
Factory installed battery disconnect, to located on the cab floor outboard of the driver's seat  
When in the disconnect position, the switch shall disable all circuits  
If necessary, the disconnect switch shall allow for an automatic delay for DEF system purging

## **Paint**

Cab and hood to be BC/CC Omaha Orange  
Frame to be black  
Wheels to be white

## **Documentation and Support**

Provide on-line access to parts and service manuals, including electrical diagrams  
Provide all current diagnostic software; contact the Road Commission for currently owned software.  
Provide on-site technician training as needed  
Provide on-site warranty repairs

## **Extended warranty packages**

Specify length of extended warranties and providers  
Itemize costs for all extended warranty package

## **Miscellaneous**

All warranty start dates will be after completion by the body builder and considered road ready by the Road Commission  
Contact the Road Commission for review of order specifications prior to the truck being ordered

## **Bid Submission**

Complete listing of specifications must be included with bid  
Enclose informational brochures  
Specify approximate lead time

Pricing to be FOB Mancelona, MI

Bids shall be placed in a sealed envelope and marked "**2017 CAB & CHASSIS BID**"

Antrim County Road Commission contact: Ron Chapman, Shop Foreman 231-587-8173 or  
E-mail (preferred) at [rchapman@antrimcrc.org](mailto:rchapman@antrimcrc.org)

The Antrim County Road Commission reserves the right to accept or reject any or all bids, to waive any irregularity or defect in a bid, or to accept the bid which in the opinion of the Road Commission is in its best interest.

Burt R. Thompson, P.E.  
Engineer-Manager