



# 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, January 12, 2015, 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.

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

All measurements are to be verified with the body builder before ordering

### Engine

Detroit Diesel, Model DD-13  
13 liter, 410 HP at rated RPM, 1550 lb/ft torque at rated RPM  
Must meet 2010 EPA/Carb emission regulations  
23 gallon DEF tank mounted on driver's side, aft of front fender  
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  
12V, 39MT starter

## **Engine (cont)**

Three (3) Group 31S 1000CCA AGM batteries, mounted with DEF tank on driver's side  
Winterized to -34F

Radiator shall be sized to allow for crankshaft mount PTO

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

Detroit Diesel Virtual Technician shall be installed and activated at the time of delivery,  
coordinate with the Road Commission for contact information

## **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 controller, not push button

Provisions for speedometer pick-up for ground speed controller

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**

Note: The Road Commission has historically used double frame rails and has experienced excessive expansion due to corrosion, "rust jacking". We would like to start utilizing a single rail, with no inner liner. If not possible, please include engineering data to justify.

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	

20" integral front extensions

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

23,000 pound flat leaf front 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  
Driver controlled power divider  
Iron, hub piloted, hubs  
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 4S/4M controller, compatible with brake system  
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

### **Tires and Wheels**

Michelin XZY-3 315/80R22.5 20 ply front tires  
9.00 x 22.5 unimount 10 bolt severe duty wheels with two hand holes  
Michelin XDE M/S 11R22.5 16 ply rear tires  
8.25 x 22.5 unimount 10 bolt severe duty wheels with two hand holes

### **Cab Exterior**

Aluminum/galvanized steel air ride conventional cab  
Bolt on flexible front fender extensions  
Integral headlight/marker lights  
LED marker lights  
Integral stop/tail/turn/backup lighting with 7 feet additional wire at rear  
Auxiliary snow plow wiring harness to front of hood with cab mounted switch  
Tilt forward fiberglass hood with stationary front grille with fender extensions  
Dual roof mounted air horns  
Door locks and ignition keyed alike  
Furnish three (3) keys

## **Cab Exterior (cont)**

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 and DEF tank  
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  
Aluminum/stainless steel kickplates on both lower inner door panel  
Standard heater, defroster, air conditioner  
HVAC ducting to guard against snow infiltration on fresh air intake  
Bostrom Talladega 910 high back air suspension driver seat with armrests  
High back standard suspension passenger seat  
Firewall mounted suspended brake pedal  
Door operated dome light  
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 with integrated 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 be labeled as follows; one(1) switch cover to be blank the remaining three (3) switch covers are to be factory labeled as follows, strobe light, work light, fog light  
Switch for plow light package  
Pick up post for speedometer input, to be used for material spreader ground speed control  
Turn signal switch with dimmer and washer/wiper control  
NO battery disconnect switch (will be installed by the body builder)

## **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  
As noted above, Detroit Diesel Virtual Technician shall be installed and operational at time of delivery

## **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 **“2015 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