



# Antrim County Road Commission

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## **NOTICE TO HEAVY EQUIPMENT BIDDERS**

The Road Commission is requesting bids for the purchase of one (1) current model year motor grader, equipped with a front mounted scarifier and a fourteen (14) foot side mounted snow wing. Sealed bids will be accepted at the offices of the Antrim County Road Commission, 319 E Lincoln St., P.O. Box 308, Mancelona, MI 49659-0308, until 1:00 pm, Monday, March 9, 2015, at which time they will be publicly opened and read aloud. Bids will be tabulated and a recommendation will be made to the Board of County Road Commissioners at their next regular meeting.

### **GENERAL**

The Road Commission is considering the purchase of a new motor grader. In the summer months, the grader will be equipped with a front mounted scarifier and will be utilized for road construction and maintenance. For the winter months it will be utilized for snow removal and shall be equipped with a front mounted plow and a right side mounted snow wing.

### **SPECIFICATIONS**

The attached specifications are minimums. The specifications are general in nature, outlining our needs for grader operations. The Road Commission is aware that most manufacturers' offer model upgrades that incorporate these needs without using "add-on" equipment. The Road Commission would welcome bids for both a standard model, with "add-on" equipment, and an upgraded version.

Recommendations for optional equipment, not stated in the specifications, are welcome and should be bid as an option, showing add/deduct amounts.

All bidders must make a motor grader, of comparable specifications, available for demonstration and test operations by Road Commission personnel, at its discretion.

### **TRADE-IN**

The Road Commission is offering a 1992 Champion 730A for trade-in. The grader is ACRC unit #065 and has approximately 14,000 hours of operation. Inspections may be scheduled by contacting the Road Commission at the number below.

### **BID PROCEDURES**

Pricing shall be FOB Mancelona, Michigan.

Bidders must enclose the attached specification sheet, noting any variations.

Bidders must include any informational brochures available.

Bids must be placed in a sealed envelope, clearly marked "**Motor grader bid**".

Faxed or e-mailed bids **will not** be accepted.

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

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2015 Motorgrader Specifications

**MANUFACTURER** \_\_\_\_\_

**MODEL** \_\_\_\_\_

<b><u>1. GENERAL</u></b>	YES	NO	DEVIATIONS
1.1 The minimum net peak horsepower shall be 200.			
1.2 The minimum net peak torque shall be 900 foot/pounds.			
1.3 The minimum base operating weight shall be 35,000 pounds.			
1.4 The maximum operating weight shall not be less than 46,000 pounds.			
1.5 The minimum blade pull, at maximum weight, 0.9 coefficient of traction, shall be 23,000 pounds.			
<b><u>2. ENGINE</u></b>	YES	NO	DEVIATIONS
2.1 The engine shall meet EPA Tier 4 specifications. With or without the use of a urea solution (DEF).			
<b><u>3. TRANSMISSION</u></b>	YES	NO	DEVIATIONS
3.1 The transmission shall be direct drive with modulated shift capabilities. It shall also include inching pedal capabilities and an independent oil reservoir and filtration system.			
3.1 The transmission shall be geared to allow a maximum operating speed of not less than 25 MPH.			
3.2 The transmission shall be geared to allow for a minimum speed, at operating RPM's, of not more than 4 MPH.			
<b><u>4. TIRES AND WHEELS</u></b>	YES	NO	DEVIATIONS
4.1 Tires shall be 17.5 R 25 and shall be either Michelin X Sno-plus or Bridgestone VSW Snow Wedge			
4.2 Wheels shall be one piece construction and sized at 13" x 25"			
<b><u>5. BLADE AND CIRCLE</u></b>	YES	NO	DEVIATIONS
5.1 The moldboard shall be of the following dimensions: Length: 14 feet Height: 23 inches, minimum (measured along arc, including cutting edge) Thickness: 3/4 inch, minimum			
5.2 The cutting edge shall consist of two (2) 8" x 3/4" x 84" through hardened replaceable blades. The blades shall be secured with 5/8" grade 9 bolts and locking nuts. NO end bits desired.			
5.3 The circle drive system shall have a slip clutch mechanism			
5.4 The moldboard shall have an impact absorption system			

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<b>6. HYDRAULIC CIRCUITS AND CONTROLS</b>	YES	NO	DEVIATIONS
6.1 There shall be an additional three (3) integral hydraulic circuits to operate a snow wing (Spec'd in a later section)			
6.2 There shall be a hydraulic circuit to the front for use with the front mounted scarifier (Spec'd in a later section)			
<b>7. AUTOMATIC CROSS SLOPE CONTROL</b>	YES	NO	DEVIATIONS
7.1 The automatic cross slope control system shall be a Topcon System 5. The Road Commission may consider other systems after review.			
7.2 While automatic cross slope control is required, whether the system is integral to the grader or an "add-on" is at the bidder's discretion. Bids reflecting both are welcome.			
7.3 The system shall be installed in accordance with the manufacturer's specifications			
7.4 Operator training, conducted at the Road Commission facilities and at its discretion, shall be provided			
<b>8. ELECTRICAL AND LIGHTING</b>	YES	NO	DEVIATIONS
8.1 Exterior lighting shall include but not limited to the following: Head lights Forward and rear facing work lights, top of cab Blade work lights Work lighting facing the right side for wing operations Top mounted amber warning light			
8.2 High mounted front plow light bar with in-cab switch shall be provided			
8.3 The minimum following extra circuits and corresponding in-cab switches shall be provided: a) A 20 amp 12VDC circuit for county mounted warning flashers b) A 20 amp 12VDC circuit (not switched) for county two way radio			
<b>9. CAB AND FEATURES</b>	YES	NO	DEVIATIONS
9.1 The cab shall be low profile			
9.2 All upper and lower front and rear windows shall open and all shall have a washer/wiper system.			
9.3 Both exterior rear view mirrors shall be heated. There shall also be an interior rear view mirror and sun shade/visor.			
9.4 The cab shall be equipped with heat and air conditioning. It shall also be equipped with a fresh air vent system to provide filtered outside fresh air.			
9.5 The cab shall be equipped with an AM/FM radio and speakers.			
9.6 The seat shall be of cloth design and have either an air or mechanical suspension system.			

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<b>9. CAB AND FEATURES (CONT)</b>	YES	NO	DEVIATIONS
9.7 The cab shall be equipped with a rear facing camera system. The system shall provide a HD color view from the rear of the grader. A HD color monitor shall be mounted in-cab, in a position so as to not interfere with sight lines or operations. The camera shall be mounted at the rear of the grader in a way that minimizes the possibility of damage.			
<b>10. GENERAL</b>	YES	NO	DEVIATIONS
10.1 Both cab doors, engine access doors and all fluid fill access points shall lock with a common key.			
10.2 The louvered panels providing air to the engine cooling system shall have detachable covers to prevent snow infiltration during winter operations.			
<b>11. FRONT MOUNTED SCARIFIER</b>	YES	NO	DEVIATIONS
11.1 The grader shall have a hydraulically operated front mounted scarifier. The scarifier shall have two (2) pitch positions and nine (9) shank pockets			
11.2 Five (5) shanks with 1" x 3" inch replaceable teeth shall be provided. All necessary retainer hardware shall be included.			
<b>12. SIDE MOUNTED HYDRAULIC SNOW WING</b>	YES	NO	DEVIATIONS
12.1 The wing shall be fourteen (14) feet in length			
12.2 The wing shall be positioned by means of hydraulic cylinders. Lifting cables of any kind will NOT be accepted			
12.3 The wing and posts shall be attached in a manner that will allow for removal during the summer months. Hydraulic connections shall be accessible and shall utilize swivel fittings.			
12.4 The wing shall be mounted and fully operational at delivery.			
<b>13. DOCUMENTATION</b>	YES	NO	DEVIATIONS
13.1 The Road Commission shall be provided with online access to all parts and shop (repair) manuals			
13.2 The grader shall have a system that allows the Road Commission to monitor machine/engine operations online. The system shall also be capable of reporting malfunctions to a central point for further dissemination to the Road Commission.			
<b>14 WARRANTY</b>	YES	NO	DEVIATION
14.1 State warranty length and terms both for the entire machine and for any sub-systems Separately quote any extensions available			