



MONROE COUNTY  
**R O A D**  
COMMISSION

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840 S. Telegraph Road • Monroe, Michigan 48161 • Phone: (734) 240-5102 • Fax: (734) 240-5101

**PROPOSAL**

**FOR**

**THREE (3) 2017 / 2018 TANDEM AXLE TRUCKS AND  
EQUIPMENT**

**BID OPENING:**

Thursday, April 20, 2017 at 10:00 a.m.

BOARD OF COUNTY ROAD  
COMMISSIONERS OF THE COUNTY OF  
MONROE

Paul Iacoangeli, Chairman  
Dan Minton, Vice Chairman  
Stephen J. Pace., Member  
Charles A. Londo, Member  
Greg W. Stewart, Member

**MONROE COUNTY ROAD COMMISSION  
INVITATION TO BID**

Sealed bids will be received by the Board of County Road Commissioners of the County of Monroe until **10:00 a.m.** local time on **Thursday, April 20, 2017** at their office located at 840 South Telegraph Road, Monroe, Michigan, 48161 for the following:

- Three (3) 2017 / 2018 Tandem Axle Trucks and Equipment
- One (1) 2017 / 2018 Single Axle Truck and Equipment

Bids will be publicly opened and read aloud by the Bid Committee at 10:00 a.m. Proposals may be downloaded from the Road Commission's website at [www.mcrc-mi.org/bids.html](http://www.mcrc-mi.org/bids.html). Proposals will only be accepted on the Road Commission's bid form(s) and must be returned in a sealed envelope with the contents plainly marked on the outside of the envelope.

BOARD OF COUNTY ROAD COMMISSIONERS  
OF THE COUNTY OF MONROE, MICHIGAN

**MONROE COUNTY ROAD COMMISSION  
PROPOSAL  
THREE (3) 2017 / 2018 TANDEM AXLE TRUCKS AND EQUIPMENT**

TO: The Board of County Road Commissioners of the County of Monroe, Michigan

FOR: Three (3) 2017 / 2018 Tandem Axle Trucks and Equipment

Ladies and Gentlemen:

The undersigned bidder hereby affirms that:

1. The proposal is in all respects fair and without any collusion or fraud.
2. The undersigned agrees to furnish materials at the unit prices stated on the attached bid forms.

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, ZIP: \_\_\_\_\_

Telephone: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

INSTRUCTIONS TO BIDDERS  
and  
GENERAL CONDITIONS

The Monroe County Road Commission received a Clean Diesel Grant to acquire three (3) new tandem axle trucks model year 2017 / 2018 and equipment for each truck. By signing each bid, the bidder will deliver all bid equipment to the Monroe County Road Commission complete and ready to operate. This will be a two part bid document. Part A for the truck chassis and Part B for the truck equipment. Bidder may bid on either part A or B or both.

OWNER

The owner of the project is the Board of County Road Commissioners of the County of Monroe, also referred to as the "Board."

BIDDER

The Bidder is one who submits a signed bid with the required documentation directly to the Board at the time and place specified.

BID FORMS

Sealed proposals must be submitted on the bid forms furnished by the Board. The proposal shall be submitted in its entirety with no modifications or changes except as authorized by an addendum and with no pages removed. All proposals must be filled out in ink or typewritten and shall be legibly signed, giving the complete name and address of the Bidder.

All bids must be in a sealed envelope and clearly marked "**Bid for 2017 / 2018 Tandem Axle Trucks and Equipment.**"

OPENING OF BIDS

Bids will be received by the Board at 840 S. Telegraph Road, Monroe, Michigan, 48161 until **10:00 a.m.** local time on **Thursday, April 20, 2017** at which time they will be publicly opened and read aloud.

ACCEPTANCE AND/OR REJECTION OF BIDS

The Board reserves the right to accept, reject and/or modify any or all bids, to waive irregularities therein, and to make the award in any manner deemed to be in the best interest of the Monroe County Road Commission. The Board reserves the right to award Part A and Part B together or separately.

TITLE VI ASSURANCE

The Monroe County Road Commission, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC 2000d to 2000d-4) and Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, hereby notifies all bidders that it assures that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, gender, age, or disability in consideration for an award.

PROHIBITION OF DISCRIMINATION

In accordance with Act No. 453, Public Acts of 1976, the Contractor and subcontractors hereby agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex, height, weight, or marital status. Further, in accordance with Act No. 220, Public Acts of 1976 as amended by Act No. 478, Public Acts of 1980, the Contractor and subcontractors hereby agree not to discriminate against an employee or applicant for employment tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of a disability that is unrelated to the individual's ability to perform the duties of a particular job or position. A breach of the above covenants shall be regarded as a material breach of this contract.

### TAXES

The Monroe County Road Commission is not subject to the Federal Excise Tax or the Michigan State Sales Tax. The Bidder shall not include these taxes in the unit prices quoted.

### SPECIFICATIONS

Where specified, the truck, chassis and equipment shall meet the Monroe County Road Commission's Specifications as described in the bid document.

### WARRANTIES, GUARANTEES, SERVICE CONTRACT (S)

Please provide **full** description of manufacturer and/or dealer warranties and guarantees.

### SERVICE MANUALS

Upon delivery of bid equipment, all service and parts manuals must be provided. This includes printed manuals and CD ROM manuals.

### SPECIAL EQUIPMENT

The bidder will also include, with the total cost of this bid, all diagnostic software that is available.

### TIME OF COMPLETION

Funding is contingent on meeting the Clean Diesel Grant deadlines.

**CHASSIS:** Completed chassis unit must be delivered within a 150 days or sooner of awarding of bid for equipment installation.

**EQUIPMENT:** Completed unit shall be finished and delivered to the Monroe County Road Commission by April 16, 2018 or sooner.

### FAILURE TO COMPLETE ON TIME

Funding is contingent on the Clean Diesel Grant deadline, therefore penalty fees may result up 25% of awarded bid price per unit if chassis/equipment is incomplete beyond completion times as stated above.

### ORIENTATION AND TRAINING

Provide complete description for orientation and training to MCRC employees for the operation of the bid equipment. This orientation and training should be complete enough to enable the purchaser to immediately and productively utilize and care for the equipment. Also, please provide an hourly quote for additional post-sale training.

### MEETINGS

The Road Commission reserves the right to include pre-build, mid-build and pre-paint inspection meetings at the installers' location. The Road Commission reserves the right to make minor changes for the build/installation of truck equipment.

### REFERENCES

Please attach a separate sheet showing the names of at least three companies and/or agencies, which have purchased the bid/specified equipment from your company, along with the address and phone number, and a contact person who utilizes or is knowledgeable about the equipment.

### COMMUNICATIONS

Any questions regarding this bid shall be directed to the Monroe County Road Commission's purchasing agent listed below:

Name: Christine Herron  
Phone: 734-240-5109  
Email: CHerron@mrcr-mi.org

**MONROE COUNTY ROAD COMMISSION  
UNIT PRICE CONTRACT  
2017 / 2018 TANDEM AXLE TRUCKS AND EQUIPMENT  
PART A and PART B**

TO: Board of County Road Commissioners of Monroe County, Michigan

The undersigned, having full knowledge of the proposal (Part A and Part B) and specifications for up to three (3) **2017 / 2018 Tandem Axle Trucks and Equipment** including Bidders' Addenda \_\_\_\_\_ and the conditions of these Contract Documents, hereby agrees to furnish materials at the unit prices named below:

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email: \_\_\_\_\_

## PART A: TRUCK SPECIFICATIONS

### Item 1.

- Gross vehicle weight rating (GVWR) \_\_\_\_\_
- Front axle weight rating (FAWR) \_\_\_\_\_
- Rear axle weight rating (RAWR) \_\_\_\_\_
- Cab-to-axle distance (CA) \_\_\_\_\_
- Grill to back of cab (BBC) \_\_\_\_\_
- Wheel base (WB) \_\_\_\_\_
- Distance from tandem center to end of frame (AF) \_\_\_\_\_
- Distance from tandem center to rear of last cross member \_\_\_\_\_
- Set back steering axle location from face of grill to center of axle (SA) \_\_\_\_\_
- 24" minimum ground clearance under frame between steering axle and front drive. If different, specify clearance \_\_\_\_\_.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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### Front Axle

- Front axle shall be factory lined with set forward steering.
- 20,000 lb. front axle with vented oil bath hubs.
- Non-asbestos double anchor fabricated brake shoes.
- Vented oil bath hubs.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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### Rear Axle

- 46,000 lbs. tandem rear axle.
- Inter-axle lock switch and light shall be inside cab.
- Tandems shall be factory-aligned axles.
- Specify axle ratio (4.89 Ratio Minimum) \_\_\_\_\_.
- Both rear axles shall be traction controlled by driver.
- Must have a 3-year warranty on the driveline, minimum.
- Non-asbestos double anchor fabricated brake shoes.
- Specify if front drive has oil pump \_\_\_\_\_ yes \_\_\_\_\_ no.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Suspension**

**Front**

- Must have 23,000 lb. springs with heavy-duty gas charged shocks.

**Rear**

- 46,000 lbs, heavy-duty air ride Hendrickson rear suspension, and certified for off road use. If not, specify \_\_\_\_\_ lbs.
- Must have leveling valve with a manual dump system from inside the cab with an indicator light.
- Shocks shall be four (4) heavy-duty, gas-mounted; specify locations \_\_\_\_\_.
- Air bag pedestal (bottom) shall be at least 12" from the ground to allow for pushing of the paver against the tires.
- Dual-leveling valve for suspension
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Complies:     \_\_\_\_\_ yes     \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Engine**

- 13.0 L Engine.
- Wet sleeved, minimum 350 hp with low oil pressure and high water temperature protection.
- Must have engine brake.
- Warranty shall be 3 yrs/150,000, minimum.
- Electronic controlled hand throttle.
- Must have a 120 volt / 1500 watt plug-in, with easy access.
- All fuel, oil, and water filters shall be spin-on.
- Must meet current production year emissions.
- Must be able to check oil at ground level
- No filters shall be located between the bumper and front axle.
- Must have a Delco MT starter.
- All radiator hoses will be silicone with heater hose shut-offs.
- Fan shall be operated with an override switch from inside the cab.
- Delco alternator must be 160 amps, minimum.
- Crankshaft pulley must be adaptable for 1310 series flange yoke.
- Front of engine PTO with adapter.
- Indicate engine make \_\_\_\_\_.
  
- Specify engine horsepower \_\_\_\_\_ at \_\_\_\_\_ rpm.
  
- Specify engine torque \_\_\_\_\_ ft/lbs. at \_\_\_\_\_ rpm.

Complies:     \_\_\_\_\_ yes     \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Transmission:**

- Allison automatic 4000 RDS six speed transmission; indicate price \_\_\_\_\_.
- Push button electronic shift control
- All transmission modules will be inside the cab with only a harness going to the transmission
- All transmission connections will be sealed in silicone or o-ring: specify \_\_\_\_\_.
- Shall have water to oil cooler for transmission.
- Fuller RTO1608LL standard shift, indicate price \_\_\_\_\_  
(Looking at the difference in price between the two transmissions)
- The speed sensor shall be internal with four (4) wires or two 2-wires for salt equipment capabilities.
- Speed sensors shall be protected from the elements by a seal or equivalent.



- Both drivelines shall be rated for GVW with half-round, quick disconnect u-joints.

Complies:  yes  no, please describe: \_\_\_\_\_

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**Frame**

- CT = 138"
- Front frame extension.
- Shall be full-framed with cross members and gussets.
- Must have 3/8" minimum thickness frame rails with a 1/4" steel liner.
- Frame shall meet requirements of 110,000 PSI and a 2,900,000 RBM bending resistance; movement with internal frame rail extensions continuing 20" in front of the grill; 60" rear overhang.
- If different, specify \_\_\_\_\_ PSI and \_\_\_\_\_ RBM
- Shall be painted black.

Complies:  yes  no, please describe: \_\_\_\_\_

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**Clutch**

- Must be Eaton or Spicer 15 1/2" two-plate manual adjustment, easy pedal pull-type clutch with brake. (For pricing of the standard transmission)
- Torque rating \_\_\_\_\_ lbs.
- Clutch face must be **non-asbestos** type.

Complies:  yes  no, please describe: \_\_\_\_\_

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**Steering**

- Must have dual-power steering gears (no slave cylinders).
- Specify make of gearboxes \_\_\_\_\_.
- Shall have oil/air power steering cooler
- Shall have a minimum 4 quart power steering reservoir.

Complies:  yes  no, please describe: \_\_\_\_\_

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**Air System**

- Air Compressor, Bendix or equivalent; water-cooled with 19.0 CFM minimum.
- Air tanks shall **not** be mounted below frame rails; specify location \_\_\_\_\_.
- All air tanks shall have manual pull cords.
- Air dryer AD-9 or equivalent with heater that shall be mounted in a protective place (not ahead of the steering axle) with easy access and not to interfere with underbody.  
Specify make: \_\_\_\_\_.

Complies:  yes  no, please describe: \_\_\_\_\_

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**Radiator**

- Shall meet engine manufacture's requirements and have adequate clearance under the radiator for the PTO shaft.

- Radiator shall be copper/brass: if not specify \_\_\_\_\_.
- All hoses shall be gates blue stripe or equivalent.
- Engine mounted DDC coolant filter.
- Antifreeze shall be a global with at least a -34F.
- Surge tank shall be mounted on the firewall if not specify\_\_\_\_\_.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Air Cleaner**

- Shall be a dual-stage dry cartridge, mounted under the hood.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Electrical System**

- Must be a 12-volt system with a master disconnect switch (Flaming River part #FR1005 or equivalent)
- All connections shall be weather packed.
- All wiring shall be either numbered every 6 inches or color-coded.
- The fuse panel shall have plug in auto-reset breakers (no fuses).
- Plow light/headlight auxiliary wiring harness and switch in cab.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Exhaust System**

- Vertical with stainless steel safety shields over piping with cab-entry handles.
- There shall be a minimum of 24" ground clearance maintained (not to interfere with the underbody).
- A 90-degree turnout at the top of the exhaust stack is required to deflect the exhaust away from the cab.
- Exhaust shall be plumbed between cab and transmission. If cannot meet specification, indicate location\_\_\_\_\_.
- Exhaust stacks(s) shall be curved 18" chrome coming out of muffler.
- Muffler(s) must be vertical either up the back of the cab or on the side of the cab.
- Diesel exhaust fluid tank: specify location \_\_\_\_\_ and size in Gallons \_\_\_\_\_.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Fuel Tank**

- Fuel tank shall be no less than 120 gallons; mounted with a top draw.
- Tank can be either aluminum with stainless steel straps, or steel with steel straps.
- There shall be 24" ground clearance from the lowest point when fully loaded.
- For cab entry a grating step system shall be used or a non-slip style that meets all federal safety requirements.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Battery**

- Four (4) 1000 CCA (4000) threaded stud type batteries shall be contained in an approved adequate box.
- Location of battery box must meet approval if located other than on the side of frame.
- The battery box shall be mounted at least 24" from the ground at the lowest point at the GVW.
- For cab entry a grating step system shall be used or a non-slip style that meets all federal safety requirements.

Complies:      \_\_\_\_\_ yes      \_\_\_\_\_ no, please describe: \_\_\_\_\_

**Auxiliary Box**

- A heavy-duty aluminum box shall be located on the frame; indicate location \_\_\_\_\_.
- Specify size of box (W x L x H) \_\_\_\_\_.
- A ground clearance of at least 30" shall be maintained
- For cab entry a grating step system shall be used or a non-slip style that meets all federal safety requirements.

Complies:      \_\_\_\_\_ yes      \_\_\_\_\_ no, please describe: \_\_\_\_\_

**Tires & Wheels**

- Ten (10) tires on white uni-mount rims.
- Steering tires 315/80R22.5 (XZY-2) on white 22.5 x 8.25 wheels.
- Drive tires 11R22.5 (XDY-2) on white 22.5 x 8.25 wheels.
- Must come with one (1) spare 11R22.5 tires mounted on white 22.5 x 8.25 uni-mount wheels

Complies:      \_\_\_\_\_ yes      \_\_\_\_\_ no, please describe: \_\_\_\_\_

**Cab**

- Must be aluminum or steel air ride cab with air bag(s) shocks, leveling valve and tracking rod.

Complies:      \_\_\_\_\_ yes      \_\_\_\_\_ no, please describe: \_\_\_\_\_

**Cab Dimensions**

- The drivers' seat in the furthest rear position shall not contact the back of the cab (seat back cannot be straight up to obtain this requirement).
- A cab that limits leg or headroom will not be considered.
- Specify straight across dash or winged dash \_\_\_\_\_.

Complies:      \_\_\_\_\_ yes      \_\_\_\_\_ no, please describe: \_\_\_\_\_

**Cab Features**

- Standard hood with no butterfly openings.
- Hood must be able to fully tilt with the snowplow hitch attached (34 inch opening).
- A tilt/telescopic steering wheel column with a steering wheel no less than 18" diameter.
- Ignition and doors shall be keyed alike.

- Driver's seat shall be a fabric high-back air ride with lumbar support.
- Passenger seat shall be fabric low back or bench type non-air; specify seat type \_\_\_\_\_.
- Seat belts shall meet all safety requirements.
- No carpeting
- Must come with Weather Tech floor mats.
- Windows shall be tinted glass.
- Must have air conditioning and heater.
- Must have inside sun visors; right and left sides.
- Must come with an interior noise-reduction package.
- Must have thermal insulation package.
- West coast lighted heated stainless steel mirrors with 102" brackets.
- Passenger side mirror shall be remote controlled.
- Must come with dual 8" stainless steel spot mirrors.
- Gray interior.
- Electric intermittent windshield wipers.
- Dual (non-painted) air horns with protectors.
- Electric city horn.
- Factory installed C.B. radio with wiring and antennas.
- Factory installed AM/FM radio with at least two speakers.
- Cruise control.
- Interior light package must be door and switch activated.
- A Sun visor shall be mounted over outside windshield.
- Right window shall be air or electric.
- Bumper can be omitted
- Cab shall have all entry handles and slip-guarded steps for safety.
- Six (6) extra electric dash mounted.
- Front wind shield shall be electric

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Instruments & Gauges**

- Must have: electric tachometer, speedometer, oil pressure gauge, oil temperature gauge, coolant temperature gauge, voltmeter, fuel gauge, air pressure gauge, hour meter, and transmission heat gauge
- Must come with all standard warning lights, including but not limited to: low-oil, low air, high water temp.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Exterior Truck Paint**

- Must be Pepsi Blue (HSB907167).
- Imron paint.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Brakes**

- Full air brake system front and rear.
- S cam type with drums.
- S cams and air chambers shall be in front of rear-end housings.

- If different, specify location \_\_\_\_\_.
- Slacks and shoes shall meet all federal requirements for weight of vehicle.
- Parking breaks (30/30 chambers) shall be on at least, but not limited to, 1 axle housing.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Scraper Mounting Clearance**

- Between the rear edge of the front fender and the first drive axle, there shall be 120" with a 24" minimum ground clearance with the vehicle at maximum GVW, **no exceptions**.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**Miscellaneous**

Please provide all specifications and literature regarding the bid equipment.

Delivery FOB: Monroe County Road Commission, 840 S. Telegraph Road, Monroe, MI 48161

**PART B: TRUCK EQUIPMENT WITH DUMP BODY SPECIFICATIONS**

The truck equipment package shall include; stainless steel RDS dump body, central hydraulic system, front plow hitch, underbody scraper, Paraglide Junior wings, and other related accessories as detailed within. All exceptions to the specifications must be noted in areas provided. Equipment prices must be written in the spaces provided. Descriptive literature, detailed quotation for all equipment including make and model numbers and comprehensive warranty statements shall be included and shall be considered part of the quotation. If vendor checks comply it is understood that the specification as written will be provided. These specifications are meant to provide a minimum performance and quality standard acceptable to the Road Commission.

**Specification:**

**1. 14ft RDS, front and rear discharge combination dump/spreader:**

- Body shell is constructed of 3/16" type 201 stainless steel.
- Body longitudinal are constructed of 1/4" type 201 stainless steel.
- 1/2 cab shield constructed of 7 gauge type 201 stainless steel.
- Hardwood sideboards shall be less than six (6) inches in height and 2 inches in width and shall be of wood.
- 667XH chain with .5x1.5" cross bars on every link.
- Conveyor chain adjusting bolt shall be constructed of stainless steel.
- Conveyor chain housing shall be 34 inches in width.
- Chain shields shall be replaceable.
- Air operated tailgate with inside of cab release.
- Shall have twin Rawson type gear boxes.
- 17.9 CID drive motors with built in application rate sensor.
- 2 inch drive and idler shafts.
- Shall have air operated series/parallel valve with in the cab control.
- Floor is constructed of 1/4", type 201 stainless steel
- Tandem axle fender kit constructed of 3/16" type 201 stainless steel

- Grease extension kit for front and rear bearings, tailgate mechanisms at front and rear, and hoist trunnions
- Body includes a fold down ladder constructed of type 201 stainless steel
- Install flaps in front of and behind drive tires
- Install splash pans at rear fenders for bulkhead connector protection
- Body includes lift loop at the front of the body
- A 10" mild steel hinged-spill chute shall be at the rear of the body for material

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**2. Shall have a trunion mounted double acting Telescopic Hoist**

Complies Yes \_\_\_\_\_ No \_\_\_\_\_

**3. Roll Rite electric tarp system including the following:**

- Shall have aluminum tarp and tension bows with 30 degree elbows
- Shall have a wind deflector made of aluminum
- Shall have a four (4) spring tarp arm assembly.
- Mesh type tarp cover

Complies Yes \_\_\_\_\_ No \_\_\_\_\_

**4. Shall have a Front cross conveyor:**

- Front cross conveyor shall have a two ply high temp belt.
- Drive motor(s) shall be able operate in both directions.
- Left side of conveyor shall have a stainless steel compatible spinner assembly.
- Right side shall have stainless steel berm chute.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**5. Shall have a Rear Spinner Assembly including the following:**

- Dual, receiver-type tubular mounting.
- Formed 24" poly spinner disc.
- Spinner motor includes seal saver.
- Direction chute on inside of spinner with 3 exterior adjustable deflectors.
- Construction is type 201 stainless steel.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**6. Shall have a 12 foot underbody scraper (Please name make and model)**

- 12 foot x 20 in x 1 in moldboard.
- Shall have contoured hold down clamps with poly insert liners.
- Shall have 3.5 inch actuating cylinders with 2 inch Socatri rods and poly pack seals.

- Shall have dual four (4) inch power reverse cylinders with 2 inch Socatri rods with poly seals
- Circle shall be one (1) piece and no less than one (1) inch thick.
- Piloted center pin
- Shall have a cushion valve for power reverse in the system.
- Shall have a relief valve to limit scraper down pressure.
- Heavy duty compression actuating springs shall be installed
- Shall have dual grease manifolds
- Shall have removable trunion canister pins
- Driver side of Mold Board shall have a serrated bar step on the end.
- Scraper be supplied with a 1/2" x 6 inch cutting edge and mounted to accept an eight (8) inch cutting edge.
- Moldboard is 45 degree cut on passenger-end as specified
- Install protective bracket for grease line leading to centerpin
- Paint outer 12" of both ends of moldboard high-visibility yellow

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

**7. Shall have a seven (7) foot Paraglide Junior wing for mounting on passenger side of truck:**

- Moldboard inboard shall be 27 inches, outboard height to be 28".
- Both inboard and outboard measurements shall include the eight inch cutting edge installed.
- Moldboard shall be 3/16" A36 steel
- Moldboard includes a 4" x 4" x 3/4" bottom angle
- Top of moldboard shall be formed into a 2-3/4" X 1" channel for additional strength
- Para-Glide style wing post shall be mounted behind the scraper
- Install square tubing for support of Para-Glide post
- Wing post shall be of a trailing link style with twelve inches of lift and designed to allow the moldboard to float up to a minimum of eight to twelve inches when in the plowing position.
- Junior wing shall include a heel cylinder that will lift off the banjo plate.
- Heel cylinder shall be a decal type of cylinder.
- Single cushioned rear push arm.
- Moldboard shall be done in a powder coated orange.
- D type rubber bumper stops shall be used.
- Shall be a safety chain at rear of wing for travel mode.
- Rear cross tube for rear wing support shall be no less than 5"x7"
- A sequencing valve with hoses and couplers shall be integrated in the system.
- An additional valve section and controller shall be used for the function.
- A stainless light box on the wing moldboard with a green LED flasher light pointed rearward and a marker light pointed forward shall be used on the wing.
- Shall have a 5/8" X 8" X 84" reverse curve steel cutting edge on the wing.
- Moldboard shall have cast shoes on front and rear.
- The wing shall have a poly moldboard liner

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

**8. Central Hydraulic system including the following:**

- A danfoss 140 CC piston pump with 12 volt low oil shut down shall be used.
- A 1310 Spicer type drive lines shall be used from pump to engine.
- Pump mounting bracket shall be heavy enough to secure weight of pump without any other supports.
- Rexroth 10M4-12 control valve shall be air operated for following sections:
  - Hoist, scraper, scraper swing, front plow up/down, front plow swing, and wing in/out.
  - 4 way EPC sections for main conveyor
  - 4 way EPC section for front cross conveyor
  - 4 way EPC section for front/rear spinner assembly
  - 3 way EPC section for future pre-wet
- Shall have stainless steel couplers for wing, spinner and plow reverse circuit.
- Shall have stainless steel pipe extending sander circuits to the rear.
- Return line manifold shall be of stainless steel.

Complies Yes \_\_\_\_\_ No \_\_\_\_\_

**9. Shall have a Bosch/Rexroth model CS430 controller including the following:**

- Pneu-Logic joystick controller shall be wired for remote /blast for material
- Pneu-Logic joystick controller shall include but not be limited to the following functions: all scraper, hoist, plow and wing functions.
- Install heads up display on dash for low oil, body up, shutdown, and button functions
- Shall have an armrest console for the operator.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

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**10. Combination fuel tank/hydraulic/Valve enclosure:**

- The combination tank/valve shall be constructed of 7 gauge mild steel.
- The enclosure shall be painted throughout MCRC blue throughout.
- The fuel portion of the tank shall have a 120 gallon capacity.
- The hydraulic oil portion of the tank shall have a 38 gallon capacity.
- Both supply and return ports for the fuel go to the bottom of the tank.
- Both tanks shall have bottom drains with magnetic plugs.
- There shall be an electronic sending unit for the fuel gauge.
- There shall be a 5" sight/temperature gauge mounted on the hydraulic tank.
- There shall be a 5 psi pressurized tank cap on the hydraulic tank.
- There shall be a 3" supply port on the hydraulic tank with a 3" x 2" suction strainer.
- There shall be a 2" ball valve shut off and a 2" supply line to the tank and a 3/4" case drain port.
- The system will be full of AW32 hydraulic oil when delivered.
- Reservoir shall include a basket type filler breather cap.
- A 2" NPT suction port with screen filter shall be integrated.
- Ball valve shut offs shall be installed on both the supply and return fuel lines to facilitate ease of changing fuel filters.
- A solid state low oil sender shall be mounted in the hydraulic reservoir. Once the oil level drops below a safe operating level, a low oil indicator light shall be energized to alert the driver of a low oil situation and Piston pump shut down valve will be activated. (Override switch shall be included)



- An in-tank 10 micron return line filter with shall be mounted in the reservoir.
- A drop tube shall be installed on the discharge port of the filter. Bottom
- Corner driver's side shall be a (2) latches valve enclosure.
- Mounting feet include rubber spacers with spacer collars.
- Serrated step near fuel tank with grab handle.

Complies:  yes  no, please describe: \_\_\_\_\_

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**11. Custom Lighting and electrical including the following:**

- Shall have a Star model 258HTDL-AG (amber/green) led flasher mounted on the cab shield with a stainless steel guard.
- Plow lights Truck-lite ATL halogen shall be mounted to the chassis hood with aluminum brackets.
- (2) LED Scraper work lights mounted one on each side to illuminate curbside and street side of scraper.
- (1) LED work light for wing assembly with separate switch.
- (2) LED Spreader work lights one mounted on each side of body to illuminate spread of material at rear, wired into reverse as backup lights.
- Three hole stainless steel rear light boxes mounted on rear corner posts of dump body
- One (1) 6" oval LED green flashing light in the top light of each light box
- One (1) 6" oval LED stop/tail/turn light mounted in middle hole light boxes.
- One (1) 6" oval LED amber warning lights bottom hole.
- Two (2) 6" oval LED amber flashing light mounted in front bumper.
- Betts junction box with sealed wiring mounted at back of Body driver's side.
- Wired Rite Switch Box for: Potentiometer switch, main conveyor forward/back and cross conveyor left/right.
- Proximity switch wired to GPS for scraper position indication
- 12-volt output for GPS indication for conveyor "on"

Complies:  yes  no, please describe: \_\_\_\_\_

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**12. Existing Chassis switches shall be used in the following manner:**

- Utilizing electric chassis switches for:
  - Rear and cab shield warning lights
  - Bumper Led ambers
  - Spreader and scraper work lights.
  - Wing lights rear warning and work
- Utilizing InPower switch box with control panel for the following:
  - Tarp in
  - Tarp Out
  - Air tailgate
  - Low oil override/Pump Shutdown
- Shall have LED indicators provided by a heads up display including lights for low oil, body up and joystick functions
- All wiring to be soldered, heat shrunk, and in protective loom.
- Shall have a backup up alarm
- Shall have a body up proximity switch
- Shall have rear conveyor switch for summer patching.

Complies Yes \_\_\_\_\_ No \_\_\_\_\_

**13. Install HH 34 truck portion of Husting type hitch including the following:**

- Shall have 3 in x 10 in double acting lift cylinder with Socatri rod.
- Channel type front bumper with tapered back ends.
- Shall have bar grating cover over the pump.
- Shall have a cushion valve with hydraulic couplers for power reverse front plow.
- Shall have stainless steel couplers for power reverse circuit and lift cylinder
- Shall have front mounted tow hooks
- Shall have a steel chain box between bumper and fender

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

**14. Miscellaneous Items:**

- Shall have 8" serrated bar grating steps for both sides were necessary for cab entry
- Shall have extended grating on driver's side for hydraulic tank enclosure.
- Shall have a shovel holder on left side of body.
- Shall have Road Watch temperature system with mirror mount and in cab read out.
- Shall have a PH20 Pintle hitch with 3/4" mounting plate with multiple mounting holes.
- Shall have D rings.
- Shall have rear tow hooks.
- Shall have 7-way round pin plug.

Complies: \_\_\_\_\_ yes \_\_\_\_\_ no, please describe: \_\_\_\_\_

Parts and service manuals for all items shall be provided upon delivery of the completed unit.

Complies Yes \_\_\_\_\_ No \_\_\_\_\_

Equipment installer to provide training on operation of all equipment upon delivery of completed unit.

Complies Yes \_\_\_\_\_ No \_\_\_\_\_

Minimum full one year warranty on parts and labor on all equipment. 5 years on dump body and 2 years on hoist

Complies Yes \_\_\_\_\_ No \_\_\_\_\_

Vendor shall provide a detailed quotation of all equipment including manufacturer, model, specifications and installation.

Complies Yes \_\_\_\_\_ No \_\_\_\_\_

Chassis with horizontal DPF and SCR mounted under the door with 24" ground clearance will be equipped with a combination fuel tank, oil tank, and valve enclosure combination unit mounted behind the cab. Chassis equipped with a vertical DPF and SCR mounted behind the cab will be equipped with a fuel, oil combination tank mounted behind the cab and a stainless steel valve enclosure mounted on the side of the frame.

Complies Yes \_\_\_\_\_ No \_\_\_\_\_

Price for the above listed Part A Truck Chassis and Part B stainless steel RDS dump body, central hydraulic system, front plow hitch, underbody scraper, Paraglide Junior wing and miscellaneous equipment. Please provide all specifications and literature regarding the bid equipment.

<b>Part A Truck Chassis Tandem Axle</b>		<b>Unit Price</b>	<b>Total Price</b>
<b>Outright Purchase Price with automatic</b>	<b>Manufacturer</b>	\$	
	<b>Model No.</b>		
<b>Outright Purchase Price with standard shift</b>	<b>Manufacturer</b>	\$	
	<b>Model No.</b>		
<b>Delivery in calendar days from date of purchase order:</b>			
<b>Total Part A all 3 trucks</b>			\$
<b>Part B Truck Equipment</b>		\$	
<b>Total for all 3 units complete</b>			\$
<b>TOTAL PRICE PART A and PART B</b>			\$

After the bids have been awarded and prior to order, the successful equipment bidder shall meet at the Road Commission with Monroe County Road Commission officials for a pre-build specifications review in order to verify the compatibility of the truck chassis and the equipment to be installed. This meeting shall take place within a week after bidder is awarded.

The successful equipment bidder will be required to perform training at the Monroe County Road Commission on both maintenance and operation of the truck equipment.

The Board of Monroe County Road Commissioners reserves the right to accept, reject and/or modify any or all bids received, to waive irregularities therein, and to make the award in any manner deemed to be in the best interest of the Monroe County Road Commission.

Delivery FOB: Monroe County Road Commission, 840 S. Telegraph Rd., Monroe, MI 48161

By signing the bid below the bidder agrees to the above conditions.

Communications concerning this Bid shall be addressed to the Bidder's representative.

Name of Representative: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, ZIP: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_