

Waterford School District

INVITATION TO BID

June 25, 2013

The Waterford School District will accept sealed bids for:

2013 Leased Buses & Purchased Bus

as described in the attached specifications.

Sealed bids should be submitted to Doreen Simonds, Associate Director of Purchasing & Nutrition, Kurzman Administrative Center, 501 N. Cass Lake Road, Waterford MI 48328. Bids are to be submitted no later than **2:00 PM Tuesday, July 9, 2013**. Late bids will not be considered. Bids will be publicly opened immediately following the close of receiving bids. No oral, e-mail, telephonic or telegraphic proposals shall be considered.

The Board of Education reserves the right to accept or reject any or all bids in whole or in part; or, for reasons of establishing uniformity, delivery time or preference, to award the contract to other than the low bidder.

The contents of the Bid Specification and Bidder's Response shall be incorporated into the contract, if a contract ensues.

In compliance with MCL 380.1267, a sworn and notarized statement disclosing any familial relationships that exist between the owner, or any employee of the bidder, and any member of the Waterford School District's Board or the Superintendent must be included with the bid. Bids without a sworn and notarized disclosure statement will not be accepted.

All bids shall be firm for at least sixty (60) days from the date of opening of bids. Length of time required for completion shall be specified in the bid. All bids submitted must meet or exceed all specifications herein.

Bids are to be submitted on our Bid Proposal Form, signed by the bidder, in a sealed envelope clearly marked. Two (2) copies of the Bid Proposal Form should be addressed to the attention of:

Doreen Simonds, Associate Director of Purchasing & Nutrition
Waterford School District
501 N. Cass Lake Road
Waterford, MI 48328

"2013 Leased Buses & Purchased Bus- BID"

One (1) copy of the bid form should be retained for your files. Any questions should be referred to Jim Beaver, Associate Director, Transportation and Security Services 248.674.2692 or Doreen Simonds, 248.682-0526.

**WATERFORD SCHOOL DISTRICT
2013 BUS CHASSIS and BODY SPECIFICATION
76 PASSENGER CONVENTIONAL**

The following represents the minimal specification that will be accepted by Waterford Schools for a complete 76 passenger school bus.

The body and chassis must be current model and production, first line quality and meet all Michigan Standards and National Minimum Standards as published in the most recent literature entitled Recommended Minimum Standards for School Bus bodies. These standards have precedence over specifications described herein or on attached sheets should any difference be inadvertently included. All transportation costs shall be included with Bus Bid Pricing.

The manufacturer or his agent shall include a letter detailing scheduling and production procedures and furnish us with a maximum time for delivery. All vehicles shall pass Michigan State Police Inspection prior to delivery to School District from dealer.

FRAMES

TOW HOOK, Front (2) and rear (2) Frame Mounted

FRAME RAILS mild Carbon Steel (36,000 PSI Steel);
10.13 X 3.06 X 0.31; 254 276 WB

BUMPER, FRONT Steel, full width, Aerodynamic Heavy Duty .250 Material Thickness

FRONT AXLES

AXLE, Front, I-Beam Type 10,000 lb. Capacity Minimum

***With Oil Bath Bearings and Caps**

SPRINGS/ Rear axle

SUSPENSION, REAR, Air ride, Single axle 20,000 lb. Capacity, 9.5 Ride Ht., with Shocks Absorbers

BRAKES

Bendix brake system Air Dual System

ABS (Anti-Lock Brakes)

BRAKES, FRONT, AIR CAM S-Cam; 15.0 X 4.0; Includes 16 Sq. In Brake Chambers

BRAKES, REAR, AIR CAM S-CAM; 16.5 X 7.0; Includes 30 Sq. In Anchor Lock Spring Actuated Parking Brake Chambers

AIR DRYER with Heater, **(Midland spin-on)** Standard Location

AIR COMPRESSOR 13.2 CFM, DV2

Bendix Heater Valve Wet Tank

STEERING

Steering Column Tilting

EXHAUST SYSTEMS

Exhaust System single, Horizontal Muffler and Long Tail Pipe, Aluminized Steel; Frame Mounted

ELECTRICAL SYSTEMS

ELECTRICAL SYSTEM 12 VOLTS, STANDARD EQUIPMENT

HORN electric (2)

CIRCUIT BREAKERS Manual Reset (Main Panel) SAE Type II Replaces all fuses except Instrument Cluster Feed

ALTERNATOR 12 Volt 185 AMP minimum capacity, Leace Naville

BATTERY SYSTEM Size 8D, Post Type, (1) 12 Volt 1400CCA.

TURN SIGNALS< Front Dual Face, Amber/Amber, Mounted on top of Fender, Used with Standard Flush Mounted Front Turn Signals, Side Marker Lamps, Parking Lights (LED) and Reflectors

STARTER MOTOR MT-37 Type 350 Thermal Over Crank

HEADLIGHTS Long Life Halogen; for Two Light System

**The Waterford School District requires that any power connection must be fused within three (3) inches of the point of connection.*

FRONT END

Front End Tilting, Fiberglass

ENGINES

210 HP diesel to meet federal emissions standards for 2013 engine.

Electronic hand throttle

Block Heater, Engine 120 Volt/1250 Watt (Phillips) All weather proof with 14-3 minimum wire.

BLOCK HEATER SOCKET RELOCATED TO REAR BUMPER area

FAN DRIVE Viscous (Schwitzer DD-260)

RADIATOR Soldered, Down Flow, Parallel System 381 Sq. In Area and 304 Sq. In Charge Air Cooler

RAYCORE FUEL WATER SEPARATOR

TRANSMISSION

TRANSMISSION, AUTOMATIC, 4 Speed; Transmission Oil Filter; and Less Retarder and PTO Gear

FUEL TANKS

FUEL TANK Rectangular Steel, 65 US Gal with Protective Cage located on the right Side of bus.

TIRES

Steering Tires 10R 22.5 Steering G661 HSA (Goodyear)
Drive Tires 10R22.5 Mud and snow (Goodyear)

WHEELS

22.5, 10 Hole METRIC BOLT PAINTED STEEL 7.50 DC RIMS

VEHICLE INTERIOR

Drivers Area

1. **Battery Cut-Off Switch:** Ignition key operated battery cut-off switch shall be designed to turn off all electrical systems with the exception of the four (4)-way hazard lights, headlights, tail lights, and marker or clearance lights. These systems shall be switched independently.
2. **Defroster Fans:** There shall be two 6 inch electric defroster fans with two-speed switches supplied. Location may be specified by each District. Mounting locations must be reinforced, wires to be covered.
3. **Driver's Seat:** Vehicles shall be equipped with a fully 6-way adjustable driver's seat with retractable seat belt which will keep the seat belt from reaching floor when not in use. Driver must be able to adjust the seat without leaving the seat. The seat must be independently adjustable for vertical, horizontal, and back tilt positions. Driver's seat belt shall be 24 inches longer than normal for adjustability.
4. **Glass:** A second glass shall be located in the lower portion of the emergency door.
Windshield: Windshield to be flat safety glass with "shaded" top. No thermo windows.

5. Heaters: The fresh air left front heater and defroster shall have a 90,000 BTU, or greater output. The fresh air right front heater and defroster shall have a 50,000 BTU, or greater output. Heater hose to be four (4) ply, heavy-duty rubber and/or neoprene. Heater hoses must be covered inside the bus to protect driver and passengers against burns caused by hose failures. A Hot water 80,000 BTU air circulation heater is to be furnished and mounted at the tenth (10th) seat from left front. All heater hoses shall be quipped with brass gate type "shutoff" valves located at the engine. Cores shall be supplied and installed. All cores shall be filtered with aluminum filters easily serviced. Heater hoses shall be located as to not to interfere with service repairs to engine. 12V auxiliary pump to aide in circulation with driver controlled/lighted switch.
- 6 Radio/Speaker: AM/FM Radio, CD player with clock and four (4) speakers
7. Video recorder system as follows A Seon Design Inc system using part number/ TL-H500G removable drive with a delay shutoff timer adjustable from fifteen to three minutes with two cameras one front facing rearward and one in rear facing forward. Cameras able to record in both day and night lighting with two microphones in system. To include one spare hard drive for each bus. Operating temperature range of 5 to 105 degrees F. Completely shocked mounted and installed* per state police standards.
8. Child Reminder System: Electronic child reminder system from *CRS Electronics*: Model CRS-A with air door switch option, completely installed.
9. Two way radio Vertex VX 2100/2200 series 45 watts to be installed using the radio frequency (narrow band) assigned to Waterford schools by the Federal Communications Commission.
- 10 GAUGE CLUSTER English with English Electronic Speedometer and with Tachometer for Air Brake Chassis

EXTERIOR EQUIPMENT

1. Battery Box: Battery Box is to be mounted at the rear of driver's seat on body frame. Batteries shall be mounted on an easily movable slide out tray. Box must be enclosed on bottom, both ends and both sides: welded to the body frame and in addition, secured by four (4) 3/8 inch bolts with lock washers. The rectangular angle frame, which fits around the top of the battery, shall be of sufficient strength and design to equalize the pressure throughout the entire top of the battery. The battery hold-down shall be fastened to a slide out tray with 3/8-inch bolts or larger. All cables shall be #2 cable or heavier. Ground cable to be grounded to frame with 3/8 bolt (minimum). No splicing in positive or negative leads from battery to engine. The battery compartment door shall have a locking device with a recessed handle. The door, hinged from the top, shall have a hook or catch device to hold the door open. If the door is to be hinged at an edge other than at the top of the door, it shall be specified by the District.
2. Cowl Seal: Cowl seal shall be made of rubber and of sufficient width to be anchored by all cowl bolts.
3. Mirrors: Mirrors must conform to Michigan standards and be mounted according to District specifications. Total of 4 (four) 7-1/2" or 8" convex mirrors to permit localized left front, shall be mounted on right front bracket. No Bus Boy style.

4. Service Steps: Two (2), folding cowl service steps with "non-slip" surface shall be mounted on each side of the vehicle body. Four (4) six inch grab handles shall be supplied; two mounted below the windshield on cowl, 12 inches from outer corner of the windshield, (one on each side) and two (2) shall be located on the corner posts. Service steps shall be 3 X 5 inches – 15 square inches.
5. Windshield Washers: The vehicle shall be equipped with two windshield washers with a heavy duty electric motor and with a reservoir of 70 ounces with dashboard mounted switch.
6. Emergency Exit: Interior handle guard to be center reinforced.
7. Tow Hooks: The body shall be equipped with two tow hooks front and rear bolted with $\frac{3}{4}$ inch diameter bolts and adequately welded on #7 gauge steel or heavier cross member connecting the chassis rails. They shall be mounted in a position so that bumper damage will not occur when towing. Hook mounting shall be adequate to support weight of bus and re-enforced to prevent breaking or bending.
8. Electrical Wiring: All electrical wiring is to be inside the body wall channel and readily accessible (without removal of other equipment) through movable panels in the interior of the bus and all harnesses and wires shall be protected from raw metal openings in the wall support structures. In addition to a permanently affixed color-coded wiring diagram, a separate, color-coded wiring diagram must be provided. All wiring to be lock type connectors.
9. Roof Hatch/Vent: 1 *Transpec* dual-purpose roof hatch model #DMA-1122 installed in roof over rear axle (see item #8 – lighting interior exterior).

LIGHTING: INTERIOR, EXTERIOR

1. Alternating Flasher Control: Alternating flasher control shall be "AERO-FLASH", or equivalent flasher until with flashing one inch diameter pilot light located in front of the driver on the instrument panel. The control unit shall not be the type which allows the lights to flash to a simultaneous phase. To include 8 lamp flasher system.
2. Alternating Flasher Switch: Alternating flasher switch shall be distinctively mounted in a position separated from other switches for easy location and manual operation by the driver. The switch shall be located to the left of the driver in his control position.
3. Warning Light Monitor Board: Monitor must be mounted and easily viewed by the driver.
4. **All exterior lights to be the LED type lights**
5. Back-Up Lights: There shall be two back-up lights with a minimum size of 7 inches in diameter that are automatically actuated when the vehicle is in reverse gear.
6. Clearance Lights: Clearance light shall be "Armored Type". "Armored Guard" to protect front side of lens.
7. Interior Lights: There shall be nine (9) interior lights as follows:

- A. Eight (8) passenger compartment dome lights shall have (2) switches in driver compartment. One (1) switch shall be wired to control the front four dome lights and one switch shall be wired to control the rear four
 - B. There shall be one separately switched dome light for the driver area.
- Option: dome light for driver area may be wired independently of ignition switch.

8.Stop Lights: There shall be (2) two, seven inch stop lights and tail lights, to work in conjunction with the now existing two, four inch stop and tail lights. These additional lights shall be located as near existing directional lights as possible in a horizontal line. All seven-inch diameter tail and stop light lenses shall be from one manufacturer identical in design and shape.

9.Strobe Light: Furnish and install one (1) per unit a (white) model M420-G2B2 12V Areo Flash Strobe Light with lighted switch (Blue) on control panel. Strobe to be mounted to the rear of Transpec roof hatch and in compliance with state standards.

10.Furnish and install one (1) swing arm stop sign per governmental safety regulations. Lights to be LED

11.Furnish and install back-up alarm that is activated when vehicle is placed in reverse. (See government regulations).

PROTECTION AND FINISHING

1. **Insulation:** Inside the panels shall be spray coat of mastic with an additional one inch blanket of mineral type sheathing in sides, rear and roof and fill all cavities.
2. **Mud Flaps:** There shall be four (4) mud flaps made of cord base, 5/16 inch rubber, supplied with a steel reinforced mounting edge. Each mud flap will be mounted with a minimum of (4) four bolts directly behind the wheels.
3. **Painting and Lettering:** Painting and lettering shall conform to standards most recently established by Michigan State Highway Commission which must conform to US Department of Transportation's Standard #17.
Contact Mike Sauk at Waterford Schools Transportation Department (248) 674-3135 for vehicle numbering. The year number should denote the title year of bus an *additional number decal in white will be installed on the front bumper on the curb side.* This number will match the unit number but will not include the year suffix.

Example: 59-00 would have 59 on the front bumper **in white**. In conjunction with Oakland County Sheriff Department, bus will be numbered on the roof. If bus number is #14-14- roof numbering would be *WF-1414*

4. **Rust Prevention:** The 16 gauge body panel's exterior and the interior panels along with the undercarriage shall be guaranteed against rust or flaking paint for a period of five (5) years, with the exception of those areas where rust occurs because of collision damage.

5. Undercoating: Body panels will be undercoated to prevent corrosion. It shall be spray type for the floor, wheel housing and side panels below floor level. All exposed metal or underside must be covered. Inner body panels shall also be covered to prevent rust. Documentation of rust proofing/undercoating will be provided at delivery.
6. Body Mounting Pads: Body mounting pads shall be of cord based rubber, ½ inch or greater in thickness and full width of the widest contact member. They must be installed at every body “hold down” location.
7. Warranty Procedure: If paint or mechanical problems occur, a mutually agreeable solution shall be reached by the District representative and manufacturer’s representative.
8. Bumpers: will be of the heaviest duty offered, a minimum of ½ inch thick and 8 inches wide and wrapping around end of bus to meet body panels (rear). There will be no open holes or spaces where a hand or fingers could fit.
 - A. Both bumpers will meet State and Federal Guidelines and will be sufficient to withstand minimal collision damage and support vehicle while towing without damage.
 - B. Rear bumper to have step installed to aide in exiting/ entry of bus
9. Service Door: Outward opening **Air Door**. Air door control cylinder to be mounted over the door with an access panel to the cylinder, with no exposed parts on the exterior of the bus. Air door to include a two-position switch. No thermo glass.
10. Sunvisor: One (1) Polaroid driver visor (10 in X 30 in) shall be supplied, mounting bracket shall permit visor to be lowered to near center of windshield.
11. Emergency Equipment: The following items will be located in the driver’s area *in compliance with Michigan State Police Inspections*. All items will be accessible and serviceable.
 - A. Fire Extinguisher: One (1) fire extinguisher showing a rating of not less than 2A 10DC (dry chemical) with a metal valve body and shall be clearly marked to indicate that the unit has been approved by Underwriters Laboratories or current State of Federal specifications.
 - B. First Aid Kit: One first aid kit as specified by Michigan Standards.
 - C. Triangle Warning Devices: Three (3) SAE-W-472 DOT triangles.
 - D. Fuses Three (3) red 20 minute fuses in canister.

PASSENGER AREA

12. SEATS: All passenger seats shall be **FMVSS 210 compliant** mounted in compliance with State and Federal guidelines.
13. Side Windows: All side windows shall be “double-hung”. All side windows are to be tinted for sun shading and heat deflection.

14. Floor Covering: Floor covering shall be "Rub-Bub", or equivalent:
- A. Driver's compartment covering shall be smooth surfaced 1/8 inch thick material.
 - B. Aisle covering shall be ribbed 3/16-inch thick material and shall be one continuous sheet from the rear of bus to step well. The step well and aisle covering shall be jointed as a 45-degree angle so as to permit easy cleaning. There shall not be any metal strip(s) across step or aisle covering.
15. Plywood Floor: Complete plywood flooring.
16. Access door to fuel tank sending unit through floor, permitting removal of same.

Warranty/ MANUALS

All guarantee to commence on date of delivery to district.

Manufacture to provide *extended Bumper to Bumper* warranty

TO BE PROVIDED AT TIME OF DELIVERY to WATERFORD BUS GARAGE

1(one) Chassis and 1 (one) Body parts manual per order will be provided at the time of delivery

1 (one) *Line Set* Ticket shall be provided for each bus

All necessary software to be provided and installed on the mechanic lap top computer used in the Waterford bus garage.

Delivery of buses shall be to the Waterford Bus Garage, Waterford Michigan. All vehicles will be subject to inspection before delivery sign off.

INSTRUCTIONS TO BIDDERS**GENERAL CONDITIONS:**1. Proposal/Intent

Furnish buses according to the attached specifications.

The District is intending to **lease** for a twenty four (24) month period:

One (1) - 54 passenger orthopedic lift school bus per indicated specifications

One (1) – 54 passenger school bus per indicated specifications

The District is intending to **Purchase**:

One (1) – 76 passenger school bus per indicated specification

It is the intent of the District to award this bid to one vendor; however the District reserves the right to award different vendors for each type of vehicle (general education bus, special education bus, and special education bus with wheel chair lifts).

Manufacturers' numbers are shown for convenience in identifying items. Manufacturers' description constitutes requirements for each such item or component.

Use of Manufacturers' numbers and other requirements set forth in Specifications are not intended to preclude use of any other approved manufacturer's products or procedures which may be equivalent, solely as determined by the District, but are given for the purpose of establishing standards for design, function and quality of materials, construction and workmanship.

2. Types of Proposals

Unit pricing by bus type per specifications. The vendor should include with their bid a list of all options on the bus, for each type, with the option's price. The total of this list should equal the unit price in the Bid Form.

3. Receipt of Bids

Bids will be received at Waterford School District, Kurzman Administrative Center, 501 N. Cass Lake Road, Waterford, MI 48328 at **2:00 PM on Tuesday, July 9, 2013**. Bids will be publicly opened at this time. Late bids will not be accepted. No oral, e-mail, telephonic or telegraphic proposals shall be considered.

4. Bidders' Qualifications

Bidders and lease providers shall be able to demonstrate the following:

Shall be a reputable, recognized organization with at least five (5) years successful experience on work of this type and scope, of equal or better quality than this project.

5. Warranty/ Repair Facilities

The District requires a two (2) year "Bumper to Bumper" warranty, including towing, with unlimited lease miles.

The vendor warrants that all labor and equipment provided on each bus, whether installed initially or under subsequent Purchase Orders, shall be newly manufactured equipment or assembled from newly manufactured parts. The vendor further warrants that each bus will be free from defects in workmanship and material in accordance with the manufacturer's standard warranty from the date of delivery.

Vendor shall include with the bid the warranty materials of all engine and body warranties included in the bid, in hard copy and on disk. For the items bid, each vendor shall include pricing and documentation of what warranties are offered and what they cover.

All vendors must have an inside repair facility within the boundaries of the State of Michigan.

❖ Lease Terms

Leases shall be municipal leases of twenty four (24) months. Submitted bids shall include lease-end purchase option for the school district.

6. Delivery

Indicate delivery date on the Bid Response Form.

Bus prices must be Freight on Board (FOB) the District.

Buses will be inspected and approved by WSD Transportation Services personnel prior to acceptance and approval for payment.

7. Taxes

The District is exempt from all State and federal taxes. An exemption certificate will be provided upon request. Do not include any taxes in the bid prices.

8. Submittal of Bid

Before submitting a bid, bidders shall carefully read all of the specifications in order to avoid omission or duplications. No claims for additional compensation will be considered or paid to the successful bidder, due to said successful bidder's failure to be so informed.

Bids shall be submitted in duplicate on forms provided by the District and shall be delivered in a sealed, opaque envelope clearly marked as to the contents to the attention of:

Doreen Simonds, Associate Director of Purchasing & Nutrition
Waterford School District
501 N. Cass Lake Road
Waterford, MI 48328 **BID: 2013 Leased Buses & Purchased Bus**

9. Familial Relationship

All bidders must provide familial disclosure in compliance with MCL 380.1267 and attach this information to the bid. The bid shall be accompanied by a sworn and notarized statement disclosing any familial relationship that exists between the owner or any employee of the bidder and any member of the Board or the Superintendent of the school district. The District shall not accept a bid that does not include this sworn and notarized disclosure statement.

10. Withdrawal of Bids

Any bidder may withdraw his bid at any time prior to the scheduled time for receipt of bids. No proposals may be withdrawn for at least sixty (60) days after the scheduled closing time of the bid.

11. Firm Prices

Prices and notations must be typed or in ink. No erasures are permitted. Mistakes may be crossed out and corrections entered and initialed, in ink, by the person signing the proposal.

In the event of discrepancy between the unit price and the extension, the UNIT PRICE SHALL GOVERN. The price inserted must be net including all freight, discounts, rebates, and allowances.

12. General Conditions

The District reserves the right to accept or reject any or all proposals, to waive irregularities, and to accept a proposal which, in the District's opinion, is in the District's best interest.

Negligence in preparation, improper preparation, errors in, or omissions from, proposal shall not relieve a bidder from fulfillment of any and all obligations and requirements of the proposed Contract Documents.

No responsibility shall attach to the District, or the authorized representatives of the District, for the premature opening of any proposal, which is not properly addressed and identified.

The Contract Documents, as outlined in the executed Agreement, shall imply the inclusion of the entire agreement between the parties thereto, and the Contractor shall not claim any modification thereof resulting from any representation or promise made at any time by an officer, agent or employee of the District or by any other person.

13. Opening and Awarding of Bids

Bids will be publicly opened at the Waterford School District, Kurzman Administrative Center, 501 N. Cass Lake Road, Waterford, MI at **2:00 PM Tuesday, July 9, 2013**. The tally sheet of the bidders' responses will be available on line approximately seven days after the opening of the bid

It is anticipated that a recommendation for award, if necessary, will be submitted to the Board of Education at the regular Board of Education Meeting to be held on July 18, 2013.

BID PROPOSAL FORM

The undersigned certifies that the bid contained meets or exceeds the attached specifications

Backup, detailing all the options, with the price of each option, for each bus type bid must be included with bid documents.

BASE BID:

Bus Type	Estimated Delivery Date	Annual Per Unit Lease Price
54 Passenger Orthopedic Lift School Bus, as specified		
Conventional 54 passenger School Bus, as specified		
Bus Type	Estimated Delivery Date	Purchase Price Per Unit
Conventional 76 passenger School Bus, as specified		

Did you include your warranty information? Yes ☐ No ☐

Familial Relationship affidavit included? Yes ☐ No ☐

Certificate of Compliance included? Yes ☐ No ☐

BID PROPOSAL FORM page 2

At least 3 references with contact person:

Company: _____ Contact: _____ Phone: _____

Company: _____ Contact: _____ Phone: _____

Company: _____ Contact: _____ Phone: _____

COMPANY NAME: _____

ADDRESS: _____

AUTHORIZED SIGNATURE: _____

AUTHORIZED NAME (please print): _____

TITLE: _____ DATE: _____

PHONE #: _____ FAX #: _____

E-MAIL: _____

BID DISCLOSURE STATEMENT – FAMILIAL RELATIONSHIP

Pursuant to MCL 380.1267, a sworn and notarized statement disclosing any familial relationship that exists between the owner or any employee of the bidder and any member of the Waterford School District School Board or the Waterford School District Superintendent must be accompanied with the bid. **Bids without this disclosure statement will not be accepted.**

The members of the Waterford School District School Board are: Heather Halls, John Himmelspace, Robin McGregor, Robert Petrusha, Jr., Bob Piggott, Robert Seeterlin and Joan Sutherland

The Waterford School District Superintendent is: John Silveri

☐ The Following are the familial relationships:

☐ There are none.

STATE OF MICHIGAN)
) ss
COUNTY OF _____)

The undersigned, authorized representative of bidder (insert name) _____
does hereby acknowledge that bidder has read the foregoing disclosure statement and the
statements herein contained are true.

Signature of Bidder Representative

Print Name

Title

Subscribed and sworn to before me this ____ day of _____, _____.

Notary Public, _____ County, Michigan
My commission expires: ____/____/____

CERTIFICATION OF COMPLIANCE – IRAN ECONOMIC SANCTIONS ACT

Michigan Public Act No. 517 of 2012

The undersigned, the owner, or authorized officer of the below-named company (the “Company”), pursuant to the compliance certification requirement provided in the Waterford School District’s Request For Proposal (the “RFP”), hereby certifies, represents, and warrants that the Company (which includes its officers, directors and employees) is not an “Iran Linked Business” within the meaning of the Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 (the “Act”), and that in the event the Company is awarded a contract by the Waterford School District as a result of the aforementioned RFP, the Company is not and will not become an “Iran Linked Business” at any time during the course of performing any services under the contract.

The Company further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or two (2) times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the Waterford School District’s investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date that it is determined that the person has submitted the false certification.

Name of Company

Name and Title of Authorized Representative

Signature

Date

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WATERFORD SCHOOL DISTRICT
2013 BUS CHASSIS and BODY SPECIFICATION
54 PASSENGER (Orthopedic Lift) CONVENTIONAL Lease
****Updated****

The following represents the minimal specification that will be accepted by Waterford Schools for a complete 54 passenger school bus.

The body and chassis must be current model and production, first line quality and meet all Michigan Standards and National Minimum Standards as published in the most recent literature entitled Recommended Minimum Standards for School Bus bodies. These standards have precedence over specifications described herein or on attached sheets should any difference be inadvertently included. All transportation costs shall be included with Bus Bid Pricing.

The manufacturer or his agent shall include a letter detailing scheduling and production procedures and furnish us with a maximum time for delivery. All vehicles shall pass Michigan State Police Inspection prior to delivery to School District from dealer.

FRAMES

TOW HOOK, Front (2) and rear (2) Frame Mounted

FRAME RAILS mild Carbon Steel (36,000 PSI Steel);

BUMPER, FRONT Steel, full width, Aerodynamic Heavy Duty .250 Material Thickness

FRONT AXLES

AXLE, Front, I-Beam Type 10,000 lb. Capacity Minimum

***With Oil Bath Bearings and Caps**

SPRINGS/ Rear axle

SUSPENSION, REAR, Air ride, Single axle 20,000 lb. Capacity, 9.5 Ride height, with Shock Absorbers

BRAKES

BRAKE SYSTEM Air Dual System

ABS (Anti-Lock Brakes)

BRAKES, FRONT, AIR CAM S-Cam; 15.0 X 4.0; Includes 16 Sq. In Brake Chambers

BRAKES, REAR, AIR CAM S-CAM; 16.5 X 7.0; Includes 30 Sq. In Anchor Lock Spring Actuated Parking Brake Chambers

AIR DRYER with Heater, **(Midland spin-on)** Standard Location

AIR COMPRESSOR 13.2 CFM, DV2

Bendix Heater Valve Wet Tank

STEERING

Steering Column Tilting

EXHAUST SYSTEMS

Exhaust System single, Horizontal Muffler and Long Tail Pipe, Aluminized Steel; Frame Mounted

ELECTRICAL SYSTEMS

ELECTRICAL SYSTEM 12 VOLT, STANDARD EQUIPMENT

HORN electric (2)

CIRCUIT BREAKERS Manual Reset (Main Panel) SAE Type II Replaces all fuses except Instrument Cluster Feed

ALTERNATOR 12 Volts Leace Naville 185 AMP min

AMMETER 150 AMP; Mounted in cluster

BATTERY SYSTEM Size 8D, Post Type, (1) 12 Volt 1400CCA.

TURN SIGNALS< Front Dual Face, Amber/Amber, Mounted on top of Fender, Used with Standard Flush Mounted Front Turn Signals, (LED) Side Marker Lamps, Parking Lights and Reflectors

STARTER MOTOR MT-37 Type 350 Thermal Over Crank

HEADLIGHTS Long Life Halogen; for Two Light System

**The Waterford School District requires that any power connection must be fused within three (3) inches of the point of connection.*

FRONT END

Front End Tilting, Fiberglass

ENGINES

210 HP diesel to meet federal emissions standards for 2013 engine.
Electronic hand throttle

BLOCK Heater, Engine 120 Volt/1250 Watt (Phillips) All weather proof with 14-3 minimum wire.

BLOCK HEATER SOCKET RELOCATED TO REAR BUMPER area

FAN DRIVE Viscous (Schwitzer DD-260)

RADIATOR Soldered, Down Flow, Parallel System 381 Sq. In Area and 304 Sq. In Charge Air Cooler

RAYCORE FUEL WATER SEPARATOR

TRANSMISSION

TRANSMISSION, AUTOMATIC, 4 Speed; Includes TC-290 Torque Converter and Transmission Oil Filter; and Less Retarder and PTO Gear

FUEL TANKS

FUEL TANK Rectangular Steel, 65 US Gal with Protective Cage located on right side of bus

TIRES

Front– 255/70R22.5	Steering G661 HSA Goodyear
Rear – 255/70R22.5	Mud and snow Goodyear

WHEELS

HUB MOUNT DISK WHEEL 22.5, 10 Hole METRIC BOLT PAINTED STEEL 7.50 DC RIMS

VEHICLE INTERIOR

Drivers Area

1. Battery Cut-Off Switch: Ignition key operated battery cut-off switch shall be designed to turn off all electrical systems with the exception of the four (4)-way hazard lights, headlights, tail lights, and marker or clearance lights. These systems shall be switched independently.
2. Defroster Fans: There shall be two 6 inch electric defroster fans with two-speed switches supplied. Location may be specified by each District. Mounting locations must be reinforced, wires to be covered.
3. Driver's Seat: Vehicles shall be equipped with a fully 6-way adjustable driver's seat with retractable seat belt which will keep the seat belt from reaching floor when not in use. Driver must be able to adjust the seat without leaving the seat. The seat must be independently adjustable for vertical, horizontal, and back tilt positions. Driver's seat belt shall be 24 inches longer than normal for adjustability.
4. Glass: A second glass shall be located in the lower portion of the emergency door.
Windshield: Windshield to be flat safety glass with "shaded" top. No thermo windows.
5. Heaters: The fresh air left front heater and defroster shall have a 90,000 BTU, or greater output. The fresh air right front heater and defroster shall have a 50,000 BTU, or greater output. Heater hose to be four (4) ply, heavy-duty rubber and/or neoprene. Heater hoses must be covered inside the bus to protect driver and passengers against burns caused by hose failures. A Hot water 80,000 BTU air circulation heater is to be furnished and mounted at the tenth (10th) seat from left front. All heater hoses shall be quipped with brass gate type "shutoff" valves located at the engine. Cores shall be supplied and installed. All cores shall be filtered with aluminum filters easily serviced. Heater hoses shall be located as to not to interfere with service repairs to engine. 12V auxiliary pump to aide in circulation with driver controlled/lighted switch.

6. Radio/Speaker: AM/FM Radio, CD player with clock and four (4) speakers installed in compliance with Michigan Standards.
7. Video recorder system as follows A Seon Design Inc system using part number/ TL-H500G removable drive with a delay shutoff timer adjustable from fifteen to three minutes with two cameras one front facing rearward and one in rear facing forward. Cameras able to record in both day and night lighting with two microphones in system. Operating temperature range of 5 to 105 degrees F. Completely shocked mounted and installed* per state police standards.
8. Child Reminder System: Electronic child reminder system from *CRS Electronics*. Model CRS-A with air door switch option, completely installed.
9. Two way radio Vertex VX 2100/2200 series 45 watt installed using the radio frequency (narrow band) assigned to Waterford schools by the Federal Communications Commission.
10. GAUGE CLUSTER English with English Electronic Speedometer and with Tachometer for Air Brake Chassis

EXTERIOR EQUIPMENT

1. Battery Box: Battery Box is to be mounted at the rear of driver's seat on body frame. Batteries shall be mounted on an easily movable slide out tray. Box must be enclosed on bottom, both ends and both sides: welded to the body frame and in addition, secured by four (4) 3/8 inch bolts with lock washers. The rectangular angle frame, which fits around the top of the battery, shall be of sufficient strength and design to equalize the pressure throughout the entire top of the battery. The battery hold-down shall be fastened to a slide out tray with 3/8-inch bolts or larger. All cables shall be #2 cable or heavier. Ground cable to be grounded to frame with 3/8 bolt (minimum). No splicing in positive or negative leads from battery to engine. The battery compartment door shall have a locking device with a recessed handle. The door, hinged from the top, shall have a hook or catch device to hold the door open. If the door is to be hinged at an edge other than at the top of the door, it shall be specified by the District.
2. Cowl Seal: Cowl seal shall be made of rubber and of sufficient width to be anchored by all cowl bolts.
3. Mirrors: Mirrors must conform to Michigan standards and be mounted according to District specifications. Total of 4 (four) 7-1/2" or 8" convex mirrors to permit localized left front, shall be mounted on right front bracket. No Bus Boy style.
4. Service Steps: Two (2), folding cowl service steps with "non-slip" surface shall be mounted on each side of the vehicle body. Four (4) six inch grab handles shall be supplied; two mounted below the windshield on cowl, 12 inches from outer corner of the windshield, (one on each side) and two (2) shall be located on the corner posts. Service steps shall be 3 X 5 inches – 15 square inches.
5. Windshield Washers: The vehicle shall be equipped with two windshield washers with a heavy duty electric motor and with a reservoir of 70 ounces with dashboard mounted switch.

6. Windshield Wipers: The body shall be equipped with two 2-speed electrically driven and intermittent controlled windshield wipers with heavy duty motors.
7. Emergency Exit: Interior handle guard to be center reinforced.
8. Tow Hooks: The body shall be equipped with two tow hooks front and rear bolted with $\frac{3}{4}$ inch diameter bolts and adequately welded on #7 gauge steel or heavier cross member connecting the chassis rails. They shall be mounted in a position so that bumper damage will not occur when towing. Hook mounting shall be adequate to support weight of bus and re-enforced to prevent breaking or bending.
9. Electrical Wiring: All electrical wiring is to be inside the body wall channel and readily accessible (without removal of other equipment) through movable panels in the interior of the bus and all harnesses and wires shall be protected from raw metal openings in the wall support structures. In addition to a permanently affixed color-coded wiring diagram, a separate, color-coded wiring diagram must be provided. All wiring to be lock type connectors.
10. Roof Hatch/Vent: 1 *Transpec* dual-purpose roof hatch model #DMA-1122 installed in roof over rear axle (see item #8 – lighting interior exterior).

LIGHTING: INTERIOR, EXTERIOR

1. Alternating Flasher Control: Alternating flasher control shall be "AERO-FLASH", or equivalent flasher until with flashing one inch diameter pilot light located in front of the driver on the instrument panel. The control unit shall not be the type which allows the lights to flash to a simultaneous phase. To include 8 lamp flasher system.
2. Alternating Flasher Switch: Alternating flasher switch shall be distinctively mounted in a position separated from other switches for easy location and manual operation by the driver. The switch shall be located to the left of the driver in his control position.
3. Warning Light Monitor Board: Monitor must be mounted and easily viewed by the driver.
4. **All exterior lights to be the LED type lights**
5. Back-Up Lights: There shall be two back-up lights with a minimum size of 7 inches in diameter that are automatically actuated when the vehicle is in reverse gear.
6. Clearance Lights: Clearance light shall be "Armored Type". "Armored Guard" to protect front side of lens.
7. Interior Lights: There shall be nine (9) interior lights as follows:
 - A. Eight (8) passenger compartment dome lights shall have (2) switches in driver compartment. One (1) switch shall be wired to control the front four dome lights and one switch shall be wired to control the rear four
 - B. There shall be one separately switched dome light for the driver area.Option: dome light for driver area may be wired independently of ignition switch.

8. Stop Lights: There shall be (2) two, seven inch stop lights and tail lights, to work in conjunction with the now existing two, four inch stop and tail lights. These additional lights shall be located as near existing directional lights as possible in a horizontal line. All seven-inch diameter tail and stop light lenses shall be from one manufacturer identical in design and shape.
9. Strobe Light: Furnish and install one (1) per unit a (white) model M420-G2B2 12V Areo Flash Strobe Light with lighted switch (Blue) on control panel. Strobe to be mounted to the rear of Transpec roof hatch and in compliance with state standards.
10. Furnish and install one (1) swing arm stop sign With LED lights per governmental safety regulations.
11. Furnish and install back-up alarm that is activated when vehicle is placed in reverse. (See government regulations).

PROTECTION AND FINISHING

1. Insulation: Inside the panels shall be spray coat of mastic with an additional one inch blanket of mineral type sheathing in sides, rear and roof and fill all cavities.
2. Mud Flaps: There shall be four (4) mud flaps made of cord base, 5/16 inch rubber, supplied with a steel reinforced mounting edge. Each mud flap will be mounted with a minimum of (4) four bolts directly behind the wheels.
3. Painting and Lettering: Painting and lettering shall conform to standards most recently established by Michigan State Highway Commission which must conform to US Department of Transportation's Standard #17.

Contact Mike Sauk @ Waterford Schools Transportation Department at (248) 674-3135 for vehicle numbering. The year number should denote the title year of bus an *additional number decal in white will be installed on the front bumper on the curb side.* This number will match the unit number but will not include the year suffix.

Example: 64-14 would have 64 on the front bumper **in white**.

In conjunction with Oakland County Sheriff Department, bus will be numbered on the roof. If bus number is *#14-14-* roof numbering would be *WF-14014*

4. Rust Prevention: Sixteen (16) gauge body exterior panels. Body panels and undercarriage shall be guaranteed against rust or flaking paint for a period of five (5) years, with the exception of those areas where rust occurs because of collision damage.
5. Undercoating: Body panels will be undercoated to prevent corrosion. It shall be spray type for the floor, wheel housing and side panels below floor level. All exposed metal or underside must be covered. Inner body panels shall also be covered to prevent rust. Documentation of rust proofing/undercoating will be provided at delivery.
6. Body Mounting Pads: Body mounting pads shall be of cord based rubber, 1/2 inch or greater in thickness and full width of the widest contact member. They must be installed at every body "hold down" location.

7. Warranty Procedure: If paint or mechanical problems occur, a mutually agreeable solution shall be reached by the District representative and manufacturer's representative.
8. Bumpers: will be of the heaviest duty offered, a minimum of ½ inch thick and 8 inches wide and wrapping around end of bus to meet body panels (rear). There will be no open holes or spaces where a hand or fingers could fit.
 - A. Both bumpers will meet State and Federal Guidelines and will be sufficient to withstand minimal collision damage and support vehicle while towing without damage.
 - B. Rear bumper to have step installed to aide in rear exit / entry of rear emergency door
9. Service Door: Outward opening **Air Door**. Air door control cylinder to be mounted over the door with an access panel to the cylinder, with no exposed parts on the exterior of the bus. Air door to include a two-position switch. No thermo glass.
10. Sunvisor: One (1) Polaroid driver visor (10 in X 30 in) shall be supplied, mounting bracket shall permit visor to be lowered to near center of windshield.
11. Emergency Equipment: The following items will be located in the driver's area *in compliance with Michigan State Police Inspections*. All items will be accessible and serviceable.
 - A. Fire Extinguisher: One (1) fire extinguisher showing a rating of not less than 2A 10DC (dry chemical) with a metal valve body and shall be clearly marked to indicate that the unit has been approved by Underwriters Laboratories or current State of Federal specifications.
 - B. First Aid Kit: One first aid kit as specified by Michigan Standards.
 - C. Triangle Warning Devices: Three (3) SAE-W-472 DOT triangles.
 - D. Fuses: Three (3) red 20 minute fuses in canister.

PASSENGER AREA

1. SEATS: All passenger seats to have track style *C.E. White* with built in child safety seats, two (2) per seat. Bus to have a full complement of seats. Seats will be removed by Waterford schools for wheel chair placement.
2. Shoulder padding installed full length of bus interior both sides of bus.
3. Side Windows: All side windows shall be "double-hung". All side windows are to be tinted for sun shading and heat deflection.
4. Floor Covering: Floor covering shall be "Rub-Bub", or equivalent:
5. Driver's compartment covering shall be smooth surfaced 1/8 inch thick material.
6. Aisle covering shall be ribbed 3/16-inch thick material and shall be one continuous sheet from the rear of bus to step well. The step well and aisle covering shall be jointed as a 45-degree angle so as to permit easy cleaning. There shall not be any metal strip(s) across step or aisle covering.

7. Plywood Floor: Complete plywood flooring.
8. Access door to fuel tank sending unit through floor, permitting removal of same.

Orthopedic Equipment

1. This 54 passenger unit will be utilized as an orthopedic bus. Each unit will require a Braun lift with minion of 800 –lbs capacity, with a side access lift door, front location on right side of bus.
2. All 54 passenger orthopedic units are to include the following items.
 - a. Air condition units with minimum of 50,000 BTU's.
 - b. Equipped with "flat Track (raised floor) interior.
 - c. Wheel chair button style full track install full length of bus both sides
 - d. Wheel chair button style full shoulder harness track installed full length of bus interior both sides of bus.
 - e. To include *Sure-Lock* retractable tie down sets for five (5) wheel chairs.

Warranty/ MANUALS

Manufacture to provide towing and *Bumper to Bumper* warranty for the life of lease with Waterford Schools

All guarantee/warranties to commence on date of delivery to district.

TO BE PROVIDED AT TIME OF DELIVERY to WATERFORD BUS GARAGE

One (1) Chassis and One (1) Body parts manual per order will be provided at the time of delivery

One (1) *Line Set* Ticket shall be provided for each bus

All necessary software to be provided and installed on the mechanic lap top computer used in the Waterford bus garage.

Delivery of buses shall be to the Waterford Bus Garage, Waterford Michigan. All vehicles will be subject to inspection before delivery sign off.

WATERFORD SCHOOL DISTRICT
2013 BUS CHASSIS and BODY SPECIFICATION
54 PASSENGER CONVENTIONAL Lease
****Updated****

The following represents the minimal specification that will be accepted by Waterford Schools for a complete 54 passenger school bus.

The body and chassis must be current model and production, first line quality and meet all Michigan Standards and National Minimum Standards as published in the most recent literature entitled Recommended Minimum Standards for School Bus bodies. These standards have precedence over specifications described herein or on attached sheets should any difference be inadvertently included. All transportation costs shall be included with Bus Bid Pricing.

The manufacturer or his agent shall include a letter detailing scheduling and production procedures and furnish us with a maximum time for delivery. All vehicles shall pass Michigan State Police Inspection prior to delivery to School District from dealer.

FRAMES

TOW HOOK, Front (2) and rear (2) Frame Mounted

FRAME RAILS mild Carbon Steel (36,000 PSI Steel);

BUMPER, FRONT Steel, full width, Aerodynamic Heavy Duty .250 Material Thickness

FRONT AXLES

AXLE, Front, I-Beam Type 10,000 lb. Capacity Minimum

***With Oil Bath Bearings and Caps**

SPRINGS/ Rear axle

SUSPENSION, REAR, Air ride, Single axle 20,000 lb. Capacity, 9.5 Ride Ht., with Shocks Absorbers

BRAKES

Bendix brake system Air Dual System

ABS (Anti-Lock Brakes)

BRAKES, FRONT, AIR CAM S-Cam; 15.0 X 4.0; Includes 16 Sq. In Brake Chambers

BRAKES, REAR, AIR CAM S-CAM; 16.5 X 7.0; Includes 30 Sq. In Anchor Lock Spring Actuated Parking Brake Chambers

AIR DRYER with Heater, **(Midland spin-on)** Standard Location

AIR COMPRESSOR 13.2 CFM, DV2

Bendix Heater Valve Wet Tank

STEERING

Steering Column Tilting

EXHAUST SYSTEMS

Exhaust System single, Horizontal Muffler and Long Tail Pipe, Aluminized Steel; Frame Mounted

ELECTRICAL SYSTEMS

ELECTRICAL SYSTEM 12 VOLT, STANDARD EQUIPMENT

HORN electric (2)

CIRCUIT BREAKERS Manual Reset (Main Panel) SAE Type II Replaces all fuses except Instrument Cluster Feed

ALTERNATOR 12 Volt Leace Naville 185 AMP capacity

AMMETER 150 AMP; Mounted in cluster

BATTERY SYSTEM Size 8D, Post Type, (1) 12 Volt 1400CCA.

TURN SIGNALS< Front Dual Face, Amber/Amber, Mounted on top of Fender, Used with Standard Flush Mounted Front Turn Signals, Side Marker Lamps, Parking Lights LED and Reflectors

STARTER MOTOR MT-37 Type 350 Thermal over Crank

HEADLIGHTS Long Life Halogen; for Two Light System

**The Waterford School District requires that any power connection must be fused within three (3) inches of the point of connection.*

FRONT END

Front End Tilting, Fiberglass

ENGINES

210 HP diesel to meet federal emissions standards for 2013 engine.
Electronic hand throttle

BLOCK Heater, Engine 120 Volt/1250 Watt (Phillips) All weather proof with 14-3 minimum wire.

BLOCK HEATER SOCKET RELOCATED TO REAR BUMPER area

FAN DRIVE Viscous (Schwitzer DD-260)

RADIATOR Soldered, Down Flow, Parallel System 381 Sq. In Area and 304 Sq. In Charge Air Cooler

RAYCORE FUEL WATER SEPARATOR

TRANSMISSION

TRANSMISSION, AUTOMATIC, 4 Speed; Includes TC-290 Torque Converter and Transmission Oil Filter; and Less Retarder and PTO Gear

FUEL TANKS

FUEL TANK Rectangular Steel, 65 US Gal min with Protective Cage,

TIRES

Front – 10R22.5	Steering G661 HSA (Goodyear)
Rear – 10R22.5	Mud and snow (Goodyear)

WHEELS

HUB MOUNT DISK WHEEL 22.5, 10 Hole METRIC BOLT PAINTED STEEL 7.50 DC RIMS

VEHICLE INTERIOR

Drivers Area

1. **Battery Cut-Off Switch:** Ignition key operated battery cut-off switch shall be designed to turn off all electrical systems with the exception of the four (4)-way hazard lights, headlights, tail lights, and marker or clearance lights. These systems shall be switched independently.
2. **Defroster Fans:** There shall be two 6 inch electric defroster fans with two-speed switches supplied. Location may be specified by each District. Mounting locations must be reinforced, wires to be covered.
3. **Driver's Seat:** Vehicles shall be equipped with a fully 6-way adjustable driver's seat with retractable seat belt which will keep the seat belt from reaching floor when not in use. Driver must be able to adjust the seat without leaving the seat. The seat must be independently adjustable for vertical, horizontal, and back tilt positions. Driver's seat belt shall be 24 inches longer than normal for adjustability.
4. **Glass:** A second glass shall be located in the lower portion of the emergency door.
Windshield: Windshield to be flat safety glass with "shaded" top. No thermo windows.
5. **Heaters:** The fresh air left front heater and defroster shall have a 90,000 BTU, or greater output. The fresh air right front heater and defroster shall have a 50,000 BTU, or greater output. Heater hose to be four (4) ply, heavy-duty rubber and/or neoprene. Heater hoses must be covered inside the bus to protect driver and passengers against burns caused by hose failures. A Hot water 80,000 BTU air circulation heater is to be furnished and mounted at the tenth (10th) seat from left front. All heater hoses shall be equipped with brass gate type "shutoff" valves located at the engine. Cores shall be supplied and installed. All cores shall be filtered with aluminum filters easily serviced. Heater hoses shall be located as to not to interfere with service repairs to engine. 12V auxiliary pump to aide in circulation with driver controlled/lighted switch.

6. Radio/Speaker: AM/FM Radio, CD player with clock and four (4) speakers installed in compliance with Michigan Standards.
7. Video recorder system as follows: 7. Video recorder system as follows A Seon Design Inc system using an part number/ TL-H500G removable drive with a delay shutoff timer adjustable from fifteen to three minutes with two cameras one front facing rearward and one in rear facing forward. Cameras able to record in both day and night lighting with two microphones in system. Operating temperature range of 5 to 105 degrees F. Completely shocked mounted and installed* per state police standards.
8. Child Reminder System: Electronic child reminder system from *CRS Electronics*: Model CRS-A with air door switch option, completely installed.
9. Two way radio Vertex VX 2100/2200 series 45 watt installed using the radio frequency (narrow band) assigned to Waterford schools by the Federal Communications Commission.
10. GAUGE CLUSTER English with English Electronic Speedometer and with Tachometer for Air Brake Chassis

EXTERIOR EQUIPMENT

1. Battery Box: Battery Box is to be mounted at the rear of driver's seat on body frame. Batteries shall be mounted on an easily movable slide out tray. Box must be enclosed on bottom, both ends and both sides: welded to the body frame and in addition, secured by four (4) 3/8 inch bolts with lock washers. The rectangular angle frame, which fits around the top of the battery, shall be of sufficient strength and design to equalize the pressure throughout the entire top of the battery. The battery hold-down shall be fastened to a slide out tray with 3/8-inch bolts or larger. All cables shall be #2 cable or heavier. Ground cable to be grounded to frame with 3/8 bolt (minimum). No splicing in positive or negative leads from battery to engine. The battery compartment door shall have a locking device with a recessed handle. The door, hinged from the top, shall have a hook or catch device to hold the door open. If the door is to be hinged at an edge other than at the top of the door, it shall be specified by the District.
2. Cowl Seal: Cowl seal shall be made of rubber and of sufficient width to be anchored by all cowl bolts.
3. Mirrors: Mirrors must conform to Michigan standards and be mounted according to District specifications. Total of 4 (four) 7-1/2" or 8" convex mirrors to permit localized left front, shall be mounted on right front bracket. No Bus Boy style.
4. Service Steps: Two (2), folding cowl service steps with "non-slip" surface shall be mounted on each side of the vehicle body. Four (4) six inch grab handles shall be supplied; two mounted below the windshield on cowl, 12 inches from outer corner of the windshield, (one on each side) and two (2) shall be located on the corner posts. Service steps shall be 3 X 5 inches – 15 square inches.
5. Windshield Wipers: The body shall be equipped with two 2-speed electrically driven and intermittent controlled windshield wipers with heavy duty motors.

6. Emergency Exit: Interior handle guard to be center reinforced.
7. Tow Hooks: The body shall be equipped with two tow hooks front and rear bolted with ¾ inch diameter bolts and adequately welded on #7 gauge steel or heavier cross member connecting the chassis rails. They shall be mounted in a position so that bumper damage will not occur when towing. Hook mounting shall be adequate to support weight of bus and re-enforced to prevent breaking or bending.
8. Electrical Wiring: All electrical wiring is to be inside the body wall channel and readily accessible (without removal of other equipment) through movable panels in the interior of the bus and all harnesses and wires shall be protected from raw metal openings in the wall support structures. In addition to a permanently affixed color-coded wiring diagram, a separate, color-coded wiring diagram must be provided. All wiring to be lock type connectors.
9. Roof Hatch/Vent: 1 *Transpec* dual-purpose roof hatch model #DMA-1122 installed in roof over rear axle (see item #8 – lighting interior exterior).

LIGHTING: INTERIOR, EXTERIOR

1. Alternating Flasher Control: Alternating flasher control shall be "AERO-FLASH", or equivalent flasher until with flashing one inch diameter pilot light located in front of the driver on the instrument panel. The control unit shall not be the type which allows the lights to flash to a simultaneous phase. To include 8 lamp flasher system.
2. Alternating Flasher Switch: Alternating flasher switch shall be distinctively mounted in a position separated from other switches for easy location and manual operation by the driver. The switch shall be located to the left of the driver in his control position.
3. Warning Light Monitor Board: Monitor must be mounted and easily viewed by the driver.
4. Back-Up Lights: There shall be two back-up lights with a minimum size of 7 inches in diameter that are automatically actuated when the vehicle is in reverse gear.

5. All exterior lights to be the LED type lights

6. Clearance Lights: Clearance light shall be "Armored Type". "Armored Guard" to protect front side of lens.
7. Interior Lights: There shall be nine (9) interior lights as follows:
 - A. Eight (8) passenger compartment dome lights shall have (2) switches in driver compartment. One (1) switch shall be wired to control the front four dome lights and one switch shall be wired to control the rear four
 - B. There shall be one separately switched dome light for the driver area.Option: dome light for driver area may be wired independently of ignition switch.
7. Stop Lights: There shall be (2) two, seven inch stop lights and tail lights, to work in conjunction with the now existing two, four inch stop and tail lights. These additional lights shall be located as near existing directional lights as possible in a horizontal line. All seven-inch diameter tail and stop light lenses shall be from one manufacturer identical in design and shape.

8. Strobe Light: Furnish and install one (1) per unit a (white) model M420-G2B2 12V Areo Flash Strobe Light with lighted switch (Blue) on control panel. Strobe to be mounted to the rear of Transpec roof hatch and in compliance with state standards.
9. Furnish and install one (1) swing arm stop sign with LED lights per governmental safety regulations.
10. Furnish and install back-up alarm that is activated when vehicle is placed in reverse. (See government regulations).

PROTECTION AND FINISHING

1. Insulation: Inside the panels shall be spray coat of mastic with an additional one inch blanket of mineral type sheathing in sides, rear and roof and fill all cavities.
2. Mud Flaps: There shall be four (4) mud flaps made of cord base, 5/16 inch rubber, supplied with a steel reinforced mounting edge. Each mud flap will be mounted with a minimum of (4) four bolts directly behind the wheels.
3. Painting and Lettering: Painting and lettering shall conform to standards most recently established by Michigan State Highway Commission which must conform to US Department of Transportation's Standard #17.

Contact Mike Sauk @ Waterford Schools Transportation Department at (248) 674-3135 for vehicle numbering. The year number should denote the title year of bus an *additional number decal in white will be installed on the front bumper on the curb side.* This number will match the unit number but will not include the year suffix.

Example: 78-14 would have 78 on the front bumper **in white**.

In conjunction with Oakland County Sheriff Department, bus will be numbered on the roof. If bus number is *#14-14-* roof numbering would be *WF-1414*

4. Rust Prevention: Sixteen (16) gauge body exterior panels. Body panels and undercarriage shall be guaranteed against rust or flaking paint for a period of five (5) years, with the exception of those areas where rust occurs because of collision damage.
5. Undercoating: Body panels will be undercoated to prevent corrosion. It shall be spray type for the floor, wheel housing and side panels below floor level. All exposed metal or underside must be covered. Inner body panels shall also be covered to prevent rust. Documentation of rust proofing/undercoating will be provided at delivery.
6. Body Mounting Pads: Body mounting pads shall be of cord based rubber, 1/2 inch or greater in thickness and full width of the widest contact member. They must be installed at every body "hold down" location.
7. Warranty Procedure: If paint or mechanical problems occur, a mutually agreeable solution shall be reached by the District representative and manufacturer's representative.

8. Bumpers: will be of the heaviest duty offered, a minimum of ½ inch thick and 8 inches wide and wrapping around end of bus to meet body panels (rear). There will be no open holes or spaces where a hand or fingers could fit.
 - A. Both bumpers will meet State and Federal Guidelines and will be sufficient to withstand minimal collision damage and support vehicle while towing without damage.
 - B. Rear bumper to have step installed to aide in rear exit / entry of rear emergency door
9. Service Door: Outward opening **Air Door**. Air door control cylinder to be mounted over the door with an access panel to the cylinder, with no exposed parts on the exterior of the bus. Air door to include a two-position switch. No thermo glass.
10. Sunvisor: One (1) Polaroid driver visor (10 in X 30 in) shall be supplied, mounting bracket shall permit visor to be lowered to near center of windshield.
11. Emergency Equipment: The following items will be located in the driver's area *in compliance with Michigan State Police Inspections*. All items will be accessible and serviceable.
 - A. Fire Extinguisher: One (1) fire extinguisher showing a rating of not less than 2A 10DC (dry chemical) with a metal valve body and shall be clearly marked to indicate that the unit has been approved by Underwriters Laboratories or current State of Federal specifications.
 - B. First Aid Kit: One first aid kit as specified by Michigan Standards.
 - C. Triangle Warning Devices: Three (3) SAE-W-472 DOT triangles.
 - D. Fuses Three (3) red 20 minute fuses in canister.

PASSENGER AREA

1. SEATS: All passenger seats to have *C.E. White* with built in child safety seats, two (2) per seat.
2. Shoulder padding installed full length of bus interior both sides of bus.
3. Side Windows: All side windows shall be "double-hung". All side windows are to be tinted for sun shading and heat deflection.
4. Floor Covering: Floor covering shall be "Rub-Bub", or equivalent:
5. Driver's compartment covering shall be smooth surfaced 1/8 inch thick material.
6. Aisle covering shall be ribbed 3/16-inch thick material and shall be one continuous sheet from the rear of bus to step well. The step well and aisle covering shall be jointed as a 45-degree angle so as to permit easy cleaning. There shall not be any metal strip(s) across step or aisle covering.
7. Plywood Floor: Complete plywood flooring.
8. Access door to fuel tank sending unit through floor, permitting removal of same.

Warranty/ MANUALS

Manufacture to provide towing and *Bumper to Bumper* warranty for the life of lease with Waterford Schools

All guarantee/warranty to commence on date of delivery to district.

TO BE PROVIDED AT TIME OF DELIVERY to WATERFORD BUS GARAGE

One (1) Chassis and One (1) Body parts manual per order will be provided at the time of delivery

One (1) *Line Set* Ticket shall be provided for each bus

All necessary software to be provided and installed on the mechanic lap top computer used in the Waterford bus garage.

Delivery of buses shall be to the Waterford Bus Garage, Waterford Michigan. All vehicles will be subject to inspection before delivery sign off.