

WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

1921 E. Gypsy Lane Road
Bowling Green, OH 43402

(419) 352-5115

SPECIFICATIONS AND BID FORM
for
MINIMUM BUS SPECIFICATIONS

Bus specification - One (1), 2012, 72 passenger type C, with flat floor and lift (handicapped).

Bidders must bid all items as required by the State of Ohio as stated in Ohio School Bus Minimum Standards as well as all applicable Federal Standards.

Specifications equal or better may be considered as an appropriate bid, but must be noted as alternate.

Bidders are required to use the Wood County Board of Developmental Disabilities Specifications and Bid Forms. In addition to the required regulations, bidders are to include the following items and check the appropriate column.

Bus body and chassis herein are to be used for transporting students to and from public school and school activities. As such, they must conform to or exceed all applicable Federal Motor Vehicle Safety Standards and current state specifications requirements.

Please bid specifications requested in the base bid. Indicate any exceptions, as bus provided must meet bid specifications. Exceptions must be noted on this form.

One new 2012 model, 72 passenger front engine school bus with flat floor minimum of 77" interior headroom.

I. CHASSIS SPECIFICATIONS

Yes No Alternate

ACCELERATOR

A. Electronic hand throttle or fast idle switch.

_____ _____ _____

AIR CLEANER

A. Single stage air cleaner with replaceable element and locking restriction indicator.

_____ _____ _____

B. The air intake to be located above the top of radiator for cooler and cleaner air.

_____ _____

ALTERNATOR

A. Bosch or equivalent twelve volt alternator of not less than 200 amps. 96 amps at idle.

_____ _____ _____

AXLE (FRONT)

A. Heavy duty with 12,000 lbs. minimum capacity.

_____ _____ _____

B. Oil lubed front hubs with sight glass.

_____ _____ _____

C. 50 degree minimum wheel cut for the best turning radius.

_____ _____ _____

AXLE (REAR)

A. Heavy duty with 21,000 lbs. minimum.

Yes No Alternate

BATTERIES

A. Three 12-volt batteries with 3375 degree cold cranking amps total. Must be group 31 maintenance free. Stud post.

B. Must be mounted on ball bearing slide-out tray.

C. Additional battery box.

BRAKES

A. The service brake to be full air brake system (drum type).

B. Front: 16.5" x 5" x .75" with 20" chambers.

C. Rear: 16.5" x 7" x .75" with 30" chambers.

D. Minimum 13.2 CFM belt driven air compressor.

E. Minimum three individual air reservoirs.

F. Dust shields front and rear.

G. ABS brakes.

H. Automatic slack adjustors.

I. Bendix model ADIP or AD-9 or equivalent heated air dryer with spin on filter.

COOLING SYSTEM

A. Heavy duty radiator.

B. Sight glass for coolant level required.

C. Winter front.

D. Viscous fan clutch.

DESIGN

A. Type C bus with easy tilt hood.

ENGINE

A. 6.8L V-10 propane powered engine with 750-watt block heater with front-receptacle box to plug in cord.

B. 350 horsepower min., approximately 450 ft/lb torque.

C. Full flow type oil filter, replaceable spin on element, Full-Synthetic Motor Oil

D. Dual fuel pumps

FRAME

A. All bolted construction using Grade 8 self-locking frame bolts.

B. Minimum dimensions:

a. 10 1/8" frame height

b. 3" flange width

c. 5/16" minimum thickness

C. Heavy duty 7" or 8" high end to end cross members.

FUEL TANK

A. 67 gallon - propane

SHOCK ABSORBERS

A. Heavy duty shocks with a minimum of two front shocks and two rear.

SUSPENSION

- A. Front 10,000 lbs. Spring suspension
- B. Rear 19,000 air suspension.

Yes	No	Alternate
_____	_____	_____
_____	_____	_____

STEERING GEAR

- A. Integral full power.

_____	_____	_____
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STEERING WHEEL

- A. Heavy duty mounting.
- B. 18" minimum diameter soft touch wheel.
- C. Tilt and telescopic.

_____	_____	_____
_____	_____	_____
_____	_____	_____

TIRES

- A. 16 ply tubeless 255/70/22.5 X ZE, tires to be installed

_____	_____	_____
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TRANSMISSION

- A. Automatic Transmission, Full-Synthetic fluid
- B. Equipped with Trans cooler.

_____	_____	_____
_____	_____	_____

WARRANTY

- A. Engine - 5 year, 100,000 miles, 100% parts and labor.
- B. Transmission - 5 year unlimited mileage.

_____	_____	_____
_____	_____	_____

WHEELS

- A. Min 8.25" x 22.5" heavy disc wheels.
- B. Brakes and wheels must provide outboard mounting so that brakes can be inspected without disturbing axle or wheel seal.

_____	_____	_____
_____	_____	_____

WHEEL BASE

- A. Shall be proper wheelbase to support the specified 72 passenger body. Minimum 270" to 276" wheelbase.

_____	_____	_____
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II. BODY SPECIFICATIONS

BRAUN LIFT

- Millenium 2 or newest version, or equal, with 34" Platform.
- ADA Lift Door 43" Wide, 69.75" High - 1 doors.
- Lift location rear right side.
- Stanchion and barrier in front of wheelchair lift not to exceed 20" from side wall.

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

OCCUPANT RESTRAINT SYSTEM

- Sure Lok Retraktor Series for L-Track or equivalent.
- The parts and are numbers below.
- A. Six (6) Retractor Kit # FF627S-4C or equivalent. (S-hooks)
(Quantity 24 retractors)
- B. Six (6) Integrated Lap Belt Kit #FE200842 (96" long) or equivalent.
(Quantity 6 lap belts)
- C. Six (6) Shoulder Belt #FE200732 (82" long) or equivalent.

_____	_____	_____
_____	_____	_____
_____	_____	_____

(Quantity 6 shoulder belts)

D. Six (6) Mesh Storage Container #FE 200878 or equivalent.

BUMPERS

Yes No Alternate

A. Must be able to withstand jacking up of bus with bumper lift jack.

COLOR

A. EXTERIOR: National School Bus Yellow with baked polyurethane paint only.

B. EXTERIOR ROOF: to be painted white with baked polyurethane paint only.

CONSTRUCTION

A. Vehicle MUST be constructed to meet or exceed all Federal Motor Vehicle Safety Standards and State specifications in effect at time of manufacture.

B. Bow frames shall be continuous one-piece design from floor line to floor line.

C. Side minimum 16 gauge panel.

D. Storage box 55" x 19" x 25". Right hand side mid mount. Include keyed lock.

E. 4-Step Step Well entrance.

EMERGENCY EXITS

A 2-specially low profile roof hatch is required, 4 push out windows with audible alarm

EXTERIOR LETTERING

A. Lettering on bus per State and Federal standards.

B. Buses to have reflective striping, front and rear school bus signs to be reflective per State and Federal standards.

HEATERS/DEFROSTERS

A. Front heater(s) 90,000 BTUs minimum. 50,000 BTU right front.

B. All heaters to include a removable filter to prevent debris from getting into heater core and heater motor. All rear heaters must have provisions for servicing motor and fans without disturbing heater core or seat.

C. Full length defroster channel required at base of windshield.

D. Two heater shut off valves to be located in engine compartment, will be ball valves. Easy accessible heater shut off valves.

E. All heaters to be plumbed series, each heater to receive engine hot supply of water. 50,000 Midmount on right hand side, 80,000 rear wall mount or floor mount.

F. Two 6" defrosting fans above windshield.

G. Heat Circulation Pump

IDENTIFICATION

A. WOOD LANE (two words!)- WOOD COUNTY on both sides of each bus.

B. New Bus Number- 15

INTERIOR

A. Free of all unnecessary projections. Hemmed edges on interior panels.

B. Interior side panels below side windows to seat rail to be marproof aluminized panels.

- | | | | |
|--|-------|-------|-----------|
| C. 77" minimum. To include 12" window openings to provide largest opening for emergency use. | _____ | _____ | _____ |
| D. Air operated outward opening entry doors overhead controls. Include exterior keyed lock. | _____ | _____ | _____ |
| E. Hand rails on each side of step well. | _____ | _____ | _____ |
| F. Install body fluid kit with safety equipment in bulk head. | _____ | _____ | _____ |
| G. Install weldon flasher unit for eight way lights. | _____ | _____ | _____ |
| | Yes | No | Alternate |
| H. Bulk head storage door must include an automatic hold open device. | _____ | _____ | _____ |
| I. Bulk head storage door should open without obstructions. | _____ | _____ | _____ |
| J. Driver Glove Box | _____ | _____ | _____ |

EXTERIOR LIGHTING

- | | | | |
|--|-------|-------|-------|
| A. Eight way warning lights system hooded to improve visibility. | _____ | _____ | _____ |
| B. 7" stop tail turn signal and back up lights, install Halogen head lights. | _____ | _____ | _____ |
| C. Install low profile strobe light behind rear hatch. | _____ | _____ | _____ |
| D. Complete LED light package. | _____ | _____ | _____ |

INSULATION

- | | | | |
|--|-------|-------|-------|
| A. Ceiling, sides, front and rear to be insulated with 1.5" minimum (no exceptions). | _____ | _____ | _____ |
|--|-------|-------|-------|

INSTRUMENT PANEL

- | | | | |
|--|-------|-------|-------|
| A. Instruments on dash: | | | |
| a. Speedometer/odometer | _____ | _____ | _____ |
| b. Voltmeter. | _____ | _____ | _____ |
| c. Low oil pressure warning light and buzzer. | _____ | _____ | _____ |
| d. Oil pressure gauge. | | _____ | _____ |
| | | | _____ |
| e. Water temperature gauge. | _____ | _____ | _____ |
| f. High water temp, warning light and buzzer. | _____ | _____ | _____ |
| g. Hour meter. | _____ | _____ | _____ |
| h. Tachometer | _____ | _____ | _____ |
| I. Fuel level. | _____ | _____ | _____ |
| j. Headlight indicator. | _____ | _____ | _____ |
| k. Self-canceling directional signals. | _____ | _____ | _____ |
| l. Emergency door audible alarm. | _____ | _____ | _____ |
| m. Lift door with green flashing light on dash | _____ | _____ | _____ |
| n. Key shut-off for engine (pull stop not acceptable). | _____ | _____ | _____ |
| o. Ameter. | _____ | _____ | _____ |
| p. AM/FM/CD radio with eight (8) speakers. | _____ | _____ | _____ |
| q. 16 Lamp monitor for lights. | _____ | _____ | _____ |
| r. Dual air pressure gauges. | _____ | _____ | _____ |
| s. Dual horns. | _____ | _____ | _____ |
| t. Digital clock in instrument panel. | _____ | _____ | _____ |
| u. 12 volt accessory plug. | _____ | _____ | _____ |
| v. Railroad quiet switch. | _____ | _____ | _____ |
| w. Transmission temp gauge. | _____ | _____ | _____ |

MIRROR

- A. FMVSS 111 exterior rear view. Power adjust, heated. Rosco Avia Style or Rosco Eurostyle or equivalent _____
- B. Two quadri spherical crossover. _____
- C. 6" x 30" interior passenger mirror with sun visor and side visor. Can not obstruct bulkhead storage door. _____
- D. Mirrors must be mounted in a way that eliminates vibration. _____

MUD FLAPS

- A. Front and rear required. No advertising or dealership markings. _____
- Yes No Alternate**
- B. Rubber Fenderettes on rear wheels. _____

OPENINGS

- A. All openings in floor, floorboard, firewall, or bulkhead between chassis and body shall be properly sealed to prevent water, dust, or exhaust from entering the passenger compartment. _____

OWNERS MANUALS

- A. Must furnish parts manuals and service manuals with each bus. _____

PASSENGER SEATS

- A. Passenger seat frames to be powder coated flat black with brown or gray upholstery. _____
- B. Drivers seat shall be air operated, high back and tilt back with lumbar support and right arm rest. _____
- C. Seat barriers will have kick panels to floor. _____
- D. 4 10" extension for lap seat belts (4 each). _____
- E. Seat spacing 30" seat back to seat back. _____

RUBRAILS

- A. Minimum of four rubrails on sides. All rubrails to be sealed to prevent road salt and mud from getting behind rails and painted black. _____

SEATS

- A. 4 - 30" right side, 2 seat belt per seat. (2 permanent and 1 track seat) _____
- B. 6 - 36" or 39" left side, 2 seat belts per seat. (All track seats) _____
- C. Powder coated L track on seats. _____
 - 1. Powder coated L-track from barrier in front of lift to first permanent seat on right side of bus. _____
 - 2. Full length on left side of bus starting at rear wall and continuing forward for full length of bus _____
 - 3. Install 50,000 BTU heater under last rear permanent seat on right side of bus _____
 - 4. Shoulder strap L track for wheel chairs on side of bus to be length of L track on floor. _____

TOWING

- A. Four towing hooks to be provided, 2 front and 2 rear. _____

UNDERCOATING

A. Chassis must be painted after assembly and prior to body installation. Entire underbody and body mountings to be undercoated after body to chassis mounting. _____

VENTILATION

A. Static roof ventilator front section of bus. _____

B. Driver controlled fresh air vent. _____

WARRANTY

Yes No Alternate

A. A 100,000 mileage warranty must be provided.
5 years - Frame, cross members, body structure, rust deterioration, paint adhesion, seat and barrier frames. _____
2 years - all original components manufactured by company _____
1 year - all vendor supplied items _____

B. All warranty work to be done on premises or transported by Dealer at Dealers expense. _____

C. Bus must pass Ohio State Highway Patrol inspection prior to payment. _____

WINDOWS

A. Passenger windows to provide approximate 12" openings. _____

B. Release mechanism for windows must be integrated into sash for easier operation. _____
All latches shall be removable and replaceable without removing the window.

C. Dark tinted side windows. _____

D. Side sun shield for Driver. _____

WINDSHIELD

A. Shaded top of windshield. _____

WINDSHIELD WIPERS AND WASHERS

A. One H.D. electric operated intermittent control. _____

B. Wet arm wipers required. _____

C. Washer reservoir shall be 1gallon capacity. _____

WIRING

A. Color coded, numbered and fire retardant. _____

B. Wiring encased in loom with convoluted properties. _____

C. Noise suppression switch. _____

D. Wiring to be accessible without removing or loosening side windows or roof sheets. _____

E. Fastened at no more than 24" intervals. _____

F. Override switch must work in any key position, including the key being out of the ignition _____

LOCKS

A. All keyed exterior locks must be keyed the same including wiring access door, entry door, exterior storage box and battery compartment.

BID FORM FOLLOWS

(1) **2012** 72 Passenger Type C, Flat Floor With Wheelchair Lift (Handicapped)

Each \$ _____ TOTAL \$ _____

Total New Purchase Price \$ _____

Total F.O.B. Wood County Board of
Developmental Disabilities \$ _____

Please provide a quote for each of the following options:

A. Quote engine diagnostic software and hardware package specific to manufacture \$ _____

B. 45,000 BTU auxiliary heater or equivalent. \$ _____

OPTIONS \$ _____

Signature of Authorized Representative

Name of Authorized Representative (Print)

Name of Company

Address

City State Zip

Telephone Date

Date of Delivery

Note:

Yes

1. Have you included your bid bond? _____
2. Have you signed your bid? _____
3. Have you included your property tax delinquent form, properly executed? _____