

ATTACHMENT B

SPECIFICATIONS

6 PASSENGER ADA ACCESSIBLE MINI-VAN

SPECIFICATION No. 971-MV-ADA-SWC

6 Passenger ADA Accessible Mini-Van

ADA accessible mini-van, 6 passenger, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

Van Proposed: Make: _____ Model: _____

Non-Restrictive Clause: Any use of brand name or equal within this specification is to be considered a reference for the purpose of describing the standard of quality, performance, and characteristics desired. It is not intended to limit or restrict competition.

SPECIFICATIONS

General:

Mini-van shall be capable of seating a minimum of 6 ambulatory passengers (4 fixed seats and 1 double foldout or flip seat). Mini-van shall be equipped to accommodate 2 wheelchair positions. The driver is considered as 1 ambulatory passenger. A ramp shall be included to provide accessibility to wheelchair passengers.

Gross Vehicle Weight Rating (GVWR):	5,900 lb. minimum
Wheelbase:	119 inches minimum
Overall Length:	200 inches minimum
Overall Width:	70 inches minimum
Overall Height:	64 inches minimum
Width of Interior: (at seated shoulder height)	57 inches minimum
Interior Height:	56 inches minimum
Payload:	1,000 lb. minimum
Wheelchair entrance distance from ground to lowered floor:	8 inches minimum

Comply Yes/No: _____

Engine: Six (6) cylinder gasoline engine
Size compatible with specified passenger capacity and transmission

Comply Yes/No: _____

Transmission: Standard automatic transmission

Comply Yes/No: _____

Electrical: 160 amp alternator
12 volt maintenance free battery -
730 CCA at zero degrees Fahrenheit

Comply Yes/No: _____

Front Axle: 2400 lb. minimum capacity

Comply Yes/No: _____

Rear Axle: 2600 lb. minimum capacity

Comply Yes/No: _____

Brakes: Power, Front/Rear HD Disk
Antilock Brake System

Comply Yes/No: _____

Steering: Power Steering

Comply Yes/No: _____

Tires: Tire size must be compatible with each vehicle and each vehicle's GVWR. Tires shall be steel-belted radial all season type tires (must be approved and identified for use as mud and snow tires). Spare wheel and tire mounted on each vehicle at an accessible location. Conventional spare.

Comply Yes/No: _____

Fuel System: Total fuel tank capacity shall be a minimum of 20 U.S. gallons.

Comply Yes/No: _____

Body Structure: The entire body-frame under-structure of each vehicle is to be fully undercoated with high quality material.

Roof gutters shall be installed over all windows and doors, per OEM design.

In the event the tires extend beyond the side of each vehicle, splash aprons and fenders shall be provided.

Front and rear bumpers shall be provided.

At locations where the lowered floor is installed, it shall be properly braced and reinforced to allow the structural integrity of the vehicle to remain intact.

Comply Yes/No: _____

Modifications: All welds shall be made in a workmanlike manner, properly fused of ample penetration, and shall, on all exposed surfaces where practicable, be smoothly finished. Intermittent or spot welds shall be so spaced and proportioned as to provide ample strength for the purpose. All welded joints shall be cleaned and primed. All welds shall be relatively free of slag inclusions, undercut, roll, blowholes, unfilled craters, improper fit-up and porosity. Fillet weld sizes shall be at least equal to the thickness of the least of the joined plates.

All windows shall be free of any defects due to welding slag or assembly damage.

The lowered floor and lowered floor frame attachment to the vehicle shall be made by welds only. No riveting or bolting of the lowered floor or any of the structural members to the vehicle shall be deemed adequate. Lowered floor frame members shall be designed and engineered for strength and safety of wheelchair occupants.

Modifications:

(Cont) If a lowered floor is provided on each vehicle, it shall be designed to the highest possible quality of construction. Each vehicle shall be reinforced such that the structural integrity of the basic van is not degraded. Ground clearance shall be no less than 5 inches.

Any wiring spliced into the factory wiring harness must have soldered connections and be fully insulated. No butt connectors shall be used in any of the factory spliced wiring.

Comply Yes/No: _____

Floor: The floor shall be made of metal, properly insulated, securely welded to steel chassis or body and covered with commercial heavy duty transit flooring. All edges shall be properly sealed to prevent entrance of moisture that could cause bulging, material failure.

Floor covering shall be OEM spec carpet smooth and at least 1/8 inch thick in all non-wheelchair areas. A non-skid 1/8 inch thick commercial grade flooring shall be used in the lowered floor wheelchair areas. All step edges, thresholds and the boarding edge of ramps or lift platforms shall have a band of color(s) running the full width of the step or edge which contrasts from the step tread and riser, or lift or ramp surface, either light-on-dark or dark-on-light.

All joints shall be the butt type. Floor covering shall be cemented and rolled to the floor to prevent bubbles or blisters which could create a safety hazard.

Comply Yes/No: _____

Windshield

Wipers: Two heavy duty electric two-speed windshield wipers with intermittent feature controlled by a switch shall be furnished.

Windshield washer is to be included, with a reservoir easily accessible for filling.

Comply Yes/No: _____

Seating: Passenger seats shall be covered with heavy-duty vinyl, fully padded construction and color coordinated interior and exterior colors.

Seat covering and padding material shall meet the burn resistance requirements of FMVSS 302.

Each passenger, including the driver and any wheelchair passengers, shall be provided with an individual seat belt with shoulder harness. Seat belts shall comply with FMVSS 209. Belts will be of sufficient length to accommodate adult passenger.

Seat anchorage shall comply with FMVSS 207

All seats shall be mounted to facilitate the placement and usage of wheelchair locations.

Comply Yes/No: _____

Passenger

Entrance: Each vehicle shall be equipped with a manually operated conventional rear or side entrance door. The door shall be an OEM factory door or "hatch" equipped with a window.

For vehicles of 22 feet in length or less, the overhead clearance between the top of the door opening and the highest point of a ramp shall be a minimum of 56 inches. The lowered floor shall be a minimum of 31 inches wide.

When door is fully opened, the door shall be firmly held in the open position by the OEM factory door props to prevent unexpected door closure.

Door shall be equipped with a heavy-duty lock and shall not rattle in the closed position and shall have durable, firmly installed weather seals to prevent the entrance of air, water and other elements.

Comply Yes/No: _____

Wheelchair

Restraint:

Two wheelchair retractable tie-down device and three-point seat belt for wheelchair occupant to be installed. The tie-down shall be a Q-Straint Q-8100-A1-L or approved equal. When the wheelchair space is not being used there shall be a replacement and/or fold down seat available for use by non-wheelchair occupant passengers. This seat should be of equal quality and structure of regular seating and have proper seat belts

COMPLY YES/NO: _____

Fire, First Aid &

Emergency

Equipment:

A wall mounted first aid kit, five pound dry chemical type A-B-C fire extinguisher, disabled vehicle warning device, and an OSHA approved Body Fluids Clean-up Kit shall be provided. These items shall be securely stowed in each vehicle interior.

COMPLY YES/NO: _____

Exterior/Interior

Paint:

All exposed metal surfaces, except galvanized and stainless steel, must be powder coated.

The vendor shall contact the purchaser for selection of an exterior color from standard factory color chart at the time of order.

All interior surfaces which require painting shall be painted the same color. This includes the exposed interior metal surfaces, if any, of the side and rear doors. The interior color shall be color keyed to each vehicle's exterior color and shall harmonize with the color of the roof liner and any side paneling or other covering.

Comply Yes/No: _____

Wheelchair Ramp:

The wheelchair ramp shall be a fold down type, permanently attached to the lowered floor with hinges to facilitate easy deployment. The ramp shall not obscure any part of the window or impede visibility in any other way.

The ramp shall provide a smooth and straight inclined surface from the ground to the van floor level. The ramp shall allow a wheelchair containing a handicapped person to be pushed from the ground level into each van or rolled out of each van down to ground level. Protective edge flanges shall be provided on the ramp to prevent the wheels of a wheelchair from rolling off the edge of the ramp. No center steps or toe-cleats will be allowed. The ramp shall be continuous and slip resistant; shall not have protrusions from the surface greater than ¼ inch high; shall have a clear width of 30 inches; and shall accommodate both four-wheel and three-wheel mobility aids.

The ramp shall be constructed of diamond plate aluminum or aluminum and covered with non-slip flooring. Ramps 30 inches or longer shall support a load of 600 pounds, placed at the center of the ramp distributed over an area of 26 inches by 26 inches, with safety factor of at least 3 based on the ultimate strength of the material.

The transition from roadway or sidewalk and the transition from vehicle floor to the ramp may be vertical without edge treatment up to ¼ inch. Changes in level between ¼ inch and ½ inch shall be beveled with a slope no greater than 1:2.

Each side of the ramp will have barriers at least 2 inches high to prevent mobility aid wheels from slipping off.

Wheelchair
Ramp:(Cont.)

When in use for boarding or alighting, a ramp shall be firmly attached to each vehicle so that it is not subject to displacement when loading or unloading a heavy power mobility aid and that no gap between vehicle and ramp exceeds 5/8 inch.

Comply Yes/No: _____

Air Conditioning:

Heaviest Duty Original Equipment Manufacturer (OEM) dash mounted unit air conditioning with a comparable rear air conditioning system.

Comply Yes/No: _____

Defroster:

A front and rear defroster shall be provided. However, if rear cargo doors are provided, rear defroster(s) are not required.

Comply Yes/No: _____

Wheelchair Accessibility

Symbol:

A wheelchair accessibility symbol (The international wheelchair accessibility symbol depicted on sign D9-6 in the "Manual of Uniform Traffic Control Devices" published by the Federal Highway Administration) shall be affixed to the outside of each vehicle body on either one of the doors to the ramp entryway or immediately next to one of the doors. The symbol shall be between 3" and 4" in overall height.

Comply Yes/No: _____

Backup Warning
Device:

Each vehicle shall be equipped with a back-up warning device that is readily audible outside each vehicle when the transmission is in reverse.

Comply Yes/No: _____

Stepwell/Doorway
Illumination:

Any step-well or doorway immediately adjacent to the driver shall have when the door is open, at least 2 foot-candles of illumination measured on the step tread or lift platform.

Other step-wells and doorways, including doorways in which lifts or ramps are installed, shall have, at all times, 2 foot-candles of illumination measured on the step tread, or lift or ramp, when deployed at the vehicle floor level.

The vehicle doorways, including doorways in which lifts or ramps are installed, shall have outside light(s) which, when the door is open, provide at least 1 foot-candle of illumination on the street for a distance of 3 feet perpendicular to all points on the bottom step tread outer edge. Such light(s) shall be located below window level and shielded to protect the eyes of entering and exiting passengers.

Comply Yes/No: _____

Keys:

Two (2) extra complete sets of spare keys shall be provided with the vehicle.

Comply Yes/No: _____

ADDITIONAL REQUIREMENTS

Service:	Van is to be delivered to a licensed Mississippi dealer fully assembled and ready to operate. Factory or factory trained dealer representative is to check equipment on delivery and demonstrate to project personnel operational, service, and preventive maintenance requirements.
Authorized Local Dealer:	Final vehicle assembly records and quality control assurances shall be supplied upon delivery. Authorized dealer within the State of Mississippi (include dealer name, contact person, address, and telephone number): <hr/> <hr/> <hr/> <hr/>
Workmanship:	<p>Workmanship throughout the vehicle shall conform to the highest standard of commercially accepted practice for the class of work and shall result in a neat and finished appearance. The design of the body and equipment which the manufacturer proposes to furnish must provide a vehicle of substantial and durable construction in all respects.</p> <p>Welding procedures, welding materials, and qualifications of operators shall be in accordance with standards of the American Society of Testing Materials and the American Welding Society. All welds visible to the public shall be ground smooth after the welding to present a smooth, workman-like appearance. Where metal is welded to metal, the contact surface shall be neatly finished.</p> <p>All exposed surfaces and edges shall be smooth, free from burrs and other projections, and shall be neatly finished. All exposed bolts shall be covered or protected in some manner.</p> <p>All materials used in conversion of the van shall be new and unused; used, reconditioned, or obsolete components will not be accepted.</p> <p>Manufacturer shall submit with the Statement of Qualifications (SOQ) a detailed description and specifications of the frame structure, roof structure, and side sheathing, with particular reference to materials used. All vans procured through this contract shall be exact duplicates in design, manufacture, and construction.</p>
Replacement Parts:	A supply of replacement parts for the vehicles purchased must be guaranteed by the bidder for a minimum of five years from the date of purchase. Bidder shall keep parts books and manuals up-to-date for a minimum of five years from date of purchase by issuing revised pages or otherwise notifying the State of new or superseding parts and maintenance practices.
Motor Vehicle Standards:	<p>The manufacturer shall certify that the vehicle complies with all U.S. Department of Transportation safety standards for vehicles and Interstate Commerce requirements for vehicles operated in interstate commerce that are applicable as of the date of manufacture.</p> <p>The vehicle shall comply with all requirements of the laws of the State of Mississippi as to lighting equipment and all warning and safety devices.</p> <p>The manufacturer shall certify that the vehicle conforms to the air pollution control standards set by the Federal Transit Administration for motor vehicles to be used on FTA projects.</p>

- Tests and Testing: The complete vehicle and all working and moving parts and operating devices shall be thoroughly tested and put in operating condition by the manufacturer.
- The roof, windows, windshield, and compartment doors of all vehicles shall be water tested in an approved manner, and any leaks found shall be repaired in a workman like manner.
- The manufacturer/vendor shall not attach any dealer identification, advertising, or similar material to the vehicle. Prior to acceptance of vehicle by MDOT, the manufacturer shall service and adjust vehicle for operation to include, as a minimum the following:
- a. Focusing lights
 - b. Tuning engine
 - c. Adjusting accessories
 - d. Checking electrical, braking, and suspension systems
 - e. Charging battery(s)
 - f. Inflating tires
 - g. Balancing all wheels, including spare
 - h. Completely lubricating engine, chassis, and operating mechanisms with recommended grades of lubricants for the ambient temperature at point of delivery
 - i. Servicing cooling system with permanent type antifreeze and summer coolant for -20°F
 - j. Servicing windshield washer with fluid and approved additives
 - k. Filling of fuel tank upon delivery
- Warranty: Chassis warranty shall be a minimum of 36 months or 36,000 miles on the mechanical components of the vehicles, and a minimum of 12 months warranty on the alternator. Drivetrain warranty shall be minimum of 5 years or 60,000 miles. Body structure warranty shall be a minimum of 5 years or 100,000 miles. The electrical system shall be warranted for a minimum of 3 years or 36,000 miles (parts and labor).
- Clearly stated terms and conditions of all manufacturer warranties shall be included with SOQ. Any and all materials, specialty equipment, or accessories that prove defective in normal operation within the warranty period shall be replaced or repaired by the manufacturer free of any and all cost to the vehicle operator, including all material, labor, and transportation costs. Warranty replacement and/or repairs shall be furnished promptly by the successful bidder within a time period not to exceed thirty days. **The bidder shall provide written assurance with the SOQ regarding warranty repairs.**
- The delivering dealer will have sole warranty responsibility (**all components**) for the first ninety days after acceptance of vehicle.
- The manufacturer will provide, with the SOQ, a list of warranty service locations within the State of Mississippi for all components of the vehicle (A/C, body, chassis, electrical, wheelchair ramp, wheelchair tie downs, etc.) which may need warranty repair beyond the first ninety days.
- Inspection: MDOT reserves the right to inspect all material and workmanship at all times during the process of vehicle assembly.
- Final inspection and acceptance of the vehicle(s) covered by these specifications shall be made by MDOT.
- Delivery: Based on reasonable production time and with due consideration to unforeseen circumstances, the State shall expect that delivery on initial unit(s) covered by these specifications will be made within one hundred twenty (120) days of placement of purchase order and the remainder of the units one hundred eighty (180) days, unless otherwise specified in the Request for Quotes formal (RFQF).
- FOB Point: For RFQF purposes, all vehicles shall be delivered FOB Mississippi dealer. "Caravan" or "driveway" deliveries straight from the manufacturer will not be accepted. A pre-delivery in-service inspection shall be performed by the vendor before delivery to MDOT. Each unit shall be delivered completely

assembled and ready to operate. A vendor shall be present at the time of MDOT pre-delivery and post-delivery inspections.

Documents: Each vehicle shall be delivered with completed Certificate of Origin, tag application, warranty, and any other necessary credentials.

Final vehicle assembly records and quality control assurances shall be supplied upon delivery.

Literature: Technical manuals: The following **shall be provided upon delivery** for each vehicle delivered. These items shall be provided "as built" for each individual unit delivered. Each of these items shall be kept up-to-date for a minimum of five years.

Operator's manual

Service/maintenance manual

Parts book

Parts interchange manual

Wiring schematic diagram

Schematics/drawings for all accessories and equipment not listed in operator's manual

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Note: The Mississippi Department of Transportation is exempt, by way of contractual purchases, from Regulation Eleven and the protections provided by the Mississippi Motor Vehicle Commission. A written notice, as established a by public hearing on April 21, 2010, at 10:00 a.m., is on file with the Mississippi Motor Vehicle Commission, 1755 Lelia Drive, Suite 200, Jackson, MS 39216.

As a second stage or "Specialty Vehicle" manufacturer, you are not required to hold a Mississippi Manufacturer or Dealers License and if you choose, may sell the finished motor vehicle directly to the Mississippi Department of Transportation.

The Mississippi Department of Transportation requires vendor to have a physical location within the State of Mississippi to perform delivery check-in, warranty service, and repair.

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Vehicle Title or
Certificate of Origin: To be assigned to the receiving project with applicable name and address

Lienholder: The following shall be listed as the **1st Lienholder on the Title Application:**

Mississippi Department of Transportation
Public Transit Division 6101
401 North West Street
Jackson, MS 39201-1010

To be mailed to:

Mississippi Department of Transportation
Public Transit Division, 6101
P.O. Box 1850
Jackson, MS 39215-1850