



MM-A

## MISSOURI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR LOWERED-FLOOR ACCESSIBLE MINIVAN

The intent of these specifications is to describe a standard width type vehicle that will be modified, restructured and assembled by using best quality materials, components and workmanship in accordance with sound engineering principles and manufacturing practices to provide safe and reliable transportation for ambulatory and non-ambulatory adult passengers.

MoDOT reserves the right to conduct in-plant inspections.

Acceptable Makes and Models: 2017 or 2018 Dodge Caravan, Toyota Sienna, Honda Odyssey, or approved equal (cargo vans **not** acceptable). Vehicles purchased under this bid must comply with FTA Buy America Guidelines.

The Fixing America's Surface Transportation (FAST ACT) increases domestic percentage content requirements for Buy America through incremental increases. By FFY 2020, the Buy America requirement for rolling stock will total 70 percent. The FAST Act also makes important changes to the waiver denial process, requiring FTA to certify the availability and quality of the domestic sources for the product in the denied waiver. Buy America minimum requirements in each federal fiscal year are identified as follows:

- FFY17 rolling stock must meet the minimum 60% domestic content; final assembly processes and final assembly point in USA.
- FFY18 and 19 rolling stock must meet the minimum 65% domestic content; final assembly processes and final assembly point in USA.
- FFY2020 rolling stock must meet the minimum 70% domestic content; final assembly processes and final assembly point in USA.

Evaluation of the minimum domestic content requirements will be completed prior to award of the next fiscal year rolling stock award.

GVW Rating, Minimum 5,000 lbs.

Bidder will supply a vehicle that meets all Federal Motor Carrier Safety regulations.

### Body Exterior:

Shall have manufacturer's standard items for the grill; grill frame, hubcaps, moldings around windows, doors, lamps, etc. Drip rails shall be installed above all doors to prevent water leakage. Each vehicle will be thoroughly water tested before delivery. OEM drip rails are acceptable. Exterior color shall be standard color at the time purchase orders issued (white plus on other OEM color is acceptable).

Body Interior:

They shall be all manufacturers' standard items and equipment, plus any additions or substitutions listed. If special option package is required with minor items not specified, include in your bid price. Read carefully, do not deviate. For interior color, the interior trim, upholstery, seat belts, visors, and etc., will be color keyed / color coordinated with other interior items, such as interior trim, upholstery, seat belts and visors.

Headliner or Ceiling:

Shall be full length for driver and passenger area. OEM manufacturer's standard.

Paneling and Trim:

To be complete on all doors, walls, ends and corners.

Doors, walls, ends, and corners will be covered with factory installed trim and panels. Only factory trim is acceptable. The material shall be fire resistant and easily cleaned. There will be a full-length headliner located above driver and passenger compartments.

Body Specifications:

Conversion of a minivan by modifying the existing roof, sidewalls, or floor, shall require the construction of an internal reinforcement of equal or greater strength that does not destroy or reduce the original strength of the vehicle against impact. All metal components that are added shall be professionally seam welded, and made corrosion resistant through a commercial primer application or the use of stainless steel material.

Sealant, Rust proofing, and Undercoating:

All exposed floor attachment seams shall be sealed with a high rated butyl caulk or equal. The entire surface of lowered floor shall have a rust inhibiting coating, such as an epoxy primer base, applied to exposed all welded areas, and then a fresh application of undercoating over the entire chassis and modification surfaces that does not interfere with OEM requirements. Undercoating shall comply with Federal flammability standards.

Passenger Doors and Step wells:

The minivan shall have standard OEM driver and passenger front doors, one manual left side rear passenger door. (lowered to floor level), and one manual right side mobility aid accessible rear passenger door. The manual left side sliding passenger door shall be as provided per OEM, extended to floor level providing a minimum entry height of 56 inches. Door extensions shall be constructed of stainless or galvanized steel. Both sliding doors shall have a locking mechanism to securely hold doors in open position when vehicle is on a hill. Vehicle will have a "door ajar" warning system (OEM is acceptable).

The height of doors at accessible entrances and the interior height along the path of travel between accessible entrances and securement areas shall be as follows:

- For vehicles less than 22 feet, the overhead clearance must be at least 56 inches. [49 CFR Part 38.25(c)]

Passenger Door Tracks:

Sliding doors must have reinforced glides with an added stop brace to prevent doors from sliding off track. Door tracks shall be reinforced or strengthened beyond OEM standards as needed in all areas of contact with sliding door arms.

Sliding Passenger Door Arms/Brackets:

Reinforcement of the sliding door components shall be adequate to support the excess weight created by the door extensions. Under normal closure conditions, there should be no evidence of door track flexing or wobbling.

Locks:

All doors shall be lockable by key or remote from the exterior. All access doors shall have power or keyed locks; all door locks shall be keyed alike. Door locks may also be controlled by a remote.

Rear Door Emergency Exit:

The rear door shall be provided with a quick release, manual override for opening the door from inside the vehicle. The vehicle override device shall be mounted on the inside of the rear door. Vehicles will have a warning device (light or buzzer) that indicates a locked emergency door. Warning device will meet all FMVSS requirements.

Ground Effects:

Flares shall be constructed of formed plastic and painted to match the exterior color of the vehicle. A molded step shall be incorporated into the driver and passenger flares to assist in entry of both front doors. Beneath the flare's molded step surface shall be a steel support structure capable of supporting 400 or more pounds with less than a 1/8<sup>th</sup> deflection, which fastens directly to the vehicle's body structure. The flare's molded step surface shall have a minimum clear vertical width of 4.5 inches, a minimum length of 18 inches and utilize an ant-skid material which defines the step surface.

Line Protection: All metal and rubber fluid lines beneath the vehicle that are altered or exposed as a result of floor modification shall be protected from road damage.

Dimensions:

- Minimum wheelbase of 119 inches
- Minimum overall length of 200 inches
- Minimum overall width (w/o mirrors) of 72 inches
- Minimum interior floor width at center of side sliding door of 60 inches

Load Capacities:

- GVWR of 5,000 lbs.
- The vehicle shall have a minimum payload of 1,000 lbs. (minimum)
- The front GAWR shall be 2,500 lbs. (minimum)
- The rear GAWR shall be 2,500 lbs. (minimum)

Engine:

Shall be V-6 design with minimum 150 hp, will meet current emission standards.

Cooling System:

Will use a thermostatically controlled fan and be filled with permanent ethylene glycol base antifreeze for engine protection to –20 degrees Fahrenheit.

Transmission:

4, 5 or 6-speed automatic with overdrive.

Radio:

Manufacturers standard – AM/FM/CD.

Suspension:

The vehicle shall utilize the OEM front and rear heavy-duty suspension.

Steering:

Power-assisted, rack and pinion type with a tilt steering wheel and cruise control.

Brakes: Power-assisted, front disc, rear drum or rear disc, four-wheel with anti-lock feature.

Sliding doors:

Vehicle shall be equipped with dual, sliding side doors.

Wheels and tires:

Tires: 4 standard all season radials to meet GVW rating (No Firestones) and manufacturer's standard sized spare with jack and lug wrench.

Bumpers:

Shall use original OEM front and rear painted bumpers. No bumper modifications are allowed.

Electrical System:

Battery will be a single 600 cold cranking amp capacity (minimum) with a 105 minimum amp rated alternator, or the chassis manufacturer's standard.

### Instrumentation

**Shall include the following:** Speedometer with odometer and trip odometer with reset feature, fuel gauge, oil pressure gauge (OEM oil pressure warning light acceptable), water temperature gauge and voltmeter/ammeter or warning light or OEM warning lights

### Glass:

Windshield shall be tinted from the upper frame to 6" down as measured from outside the vehicle. All side and rear glass shall be dark sunscreen type. No after-market tinting will be accepted. Driver's side and co-pilots seat window glass will be standard factory tint.

### Exterior Lighting:

Exterior lights shall include headlights, parking lights, tail and brake lights, turn signals, clearance lights, backup lights, daytime running lamps, and rear collision avoidance light. (OEM lighting is acceptable)

### Heating and Air Conditioning System:

A dual front/rear OEM air conditioning/heating system shall be used. This unit shall have separate fan controls, (3 speed minimum), for the front and rear. The defroster shall be capable of clearing all moisture from the windshield and side glass of each front door. A rear window electric defroster shall be supplied.

## **CONVERSION SPECIFICATIONS**

### Dimensions:

Maximum height	74 inches
Approximate height	72.5 inches
Minimum height (floor to ceiling at center)	57 inches
Maximum height of floor at ramp door	12 inches
Minimum clear ramp door opening width	31.5 inches
Minimum wheelchair ramp length (approximately)	52 inches
Minimum ground clearance (measured from lowest part of vehicle)	5.5 inches
Minimum ground clearance	5 inches
Minimum passenger compartment length (approximately) (measured from rear of driver's seat base to rear seat riser)	56 inches

### Conversion Warranty:

- Conversion shall be warranted against "rust through" damage, to metal components of the installed floor and ramp, by replacement or repair, for a minimum period of (3) three years without regards to mileage.
- All other components of the conversion shall be warranted, by repair or replacement, for a minimum of 36 months from the in-service date or 36,000 miles, whichever occurs first.

Body:

The structure shall be adequately reinforced at all joints and corners to carry loads up to the GVWR, to withstand road shock under normal driving conditions without deformation or separation, and be tightly sealed to eliminate drafts, water leaks at body, floor, and roof joints. The vehicle shall be fully undercoated with a non-flammable material. The vehicle, at maximum GVWR, and static conditions with any one wheel on a 6 inch high block or in a 6 inch deep hole, shall not exhibit deformation or reflection that impairs operation of doors, windows, wheelchair ramp, or other mechanical elements.

Paint:

Modified exterior surfaces requiring painting shall be thoroughly cleaned, primed, and painted with a high-grade automotive paint matching the OEM mixture.

Fuel Tank:

Shall have a minimum capacity of 18 gallons.

Suspension Modifications:

Rear suspension shall utilize automatic, load-leveling, or air-ride system. Shall incorporate electronic level sensor and dual, individually controlled air bags for reduced body roll. Shall be able to maintain a minimum ground clearance of (5) five inches measured from lowest part of the vehicle, under all load conditions up to the GVWR limits. Shall maintain original front drive axle specifications for the operating angle of the constant velocity, (CV), joints.

The manufacturer following conversion shall perform a complete and documented four-wheel suspension alignment. Rear OEM air shocks may be substituted for air bags. OEM load leveling and height control are acceptable.

Lowered Floor:

The factory OEM floor shall be lowered approximately 16 inches from the base of the firewall to the area immediately in front of the rear axle. Lowering the floor 14 inches will be acceptable as long as the ramp slope does not exceed ADA maximum slope requirements for ramps. This assembly shall be stainless steel, galvanized, or aluminized metal, (16 gauge minimum), able to meet or exceed the 1000-hour salt spray rating and shall be joined to the body frame members in a manner that provides a leak-proof floor. The floor shall be lowered through the threshold of each sliding door, while the door itself shall be extended to seal.

Floor Covering:

Anti-skid flooring throughout. A vapor-insulating barrier of 3/8" marine grade plywood shall be applied over the lowered metal floor. The flooring shall be laid without gaps or openings. Seams shall be heat welded so as to be tight against any seepage of moisture. Heat welding only applies when mating of similar surfaces. The floor covering shall be thoroughly cemented into position throughout. The floor covering shall

be a ribbed or slip resistant transit grade quality with a minimum thickness of 2.2 mm. Quality waterproof seal between wall and floor junction is acceptable.

Aisles, steps, and floor areas must be slip resistant. [49 CFR Part 38.25(a)]

Mobility Aid Ramp:

The vehicle shall be equipped with a manually operated, non-swing or swing type mobility access ramp, which folds and unfolds through the right side door. The fold and unfold motion of the ramp must be counter balanced so that the force exerted by the operator does not exceed 15 lbs. The installed ramp shall not obstruct the view of the driver through any vehicle window. The ramp shall have a minimum usable width of 30" and a slope meeting the requirements of ADA, 49 CFR 38.23c(5). The ramp surface shall be continuous and skid resistant. It shall have no protrusions from the surface greater than ¼", and shall accommodate both four-wheel and three-wheel mobility aids. The ramp shall support a maximum load of 600 lbs. Each side of the ramp shall have protective barriers at least two (2) inches high to prevent mobility aids from rolling off the ramp edge.

The following ADA requirements apply to the Mobility Aid Ramp:

Ramps 30 inches or greater in length must have a design load of 600 pounds. Ramps under 30 inches in length must have a design load of 300 pounds. [49 CFR Part 38.23(c)(1)] Note- MoDOT specifies a maximum ramp load of 600 pounds irrespective of the ramp length.

Ramp surface must be continuous and slip resistant. Protrusions can be no more than 1/4 inch. [49 CFR Part 38.23(c)(2)]

Ramps must be at least 30 inches wide. [49 CFR Part 38.23(c)(2)]

Ramps must accommodate both three-wheeled and four-wheeled mobility aids. [49 CFR Part 38.23(c)(2)]

If the threshold from the ground to the ramp surface exceeds 1/4 inch, it must be beveled with a maximum slope of 1:2. [49 CFR Part 38.23(c)(3)]

Side barriers, at least 2 inches high, must be provided. [49 CFR Part 38.23(c)(4)]

Ramps must have the least slope practicable. When the ramp is deployed to ground, the slope cannot exceed 1:4 (i.e., for a vehicle with a finished floor 12 inches above the ground, a 48-inch ramp would be needed). When deployed to a 6-inch curb the following maximum slopes would apply:

Finished floor height above 6-inch curb [49 CFR Part 38.23(c)(5)]

- 3 inches or less – maximum slope of 1:4
- 6 inches or less, but more than 3 inches – maximum slope of 1:6
- 9 inches or less, but more than 6 inches – maximum slope of 1:8
- Greater than 9 inches – maximum slope of 1:12

The ramp must be firmly attached to the vehicle. [49 CFR Part 38.23(c)(6)]

Gaps between the ramp and vehicle finish floor can be no more than 5/8 inch. [49 CFR Part 38.23(c)(6)]

A compartment or securement system must be provided for the ramp to keep it from impinging on the space set aside for mobility aid users and to keep it from becoming a hazard in the event of a sudden stop. [49 CFR Part 38.23(c)(7)]

Handrails are not required. If they are provided, however, they must support 100 pounds, be 30 to 38 inches above the ramp surface, have a cross-sectional diameter of 1 1/4 to 1 1/2 inches, and be continuous for the full length of the ramp. [49 CFR Part 38.23(c)(8)]

Step edges, thresholds, and the boarding edge of ramps or lift platforms, when equipped, must have a band of color that contrasts with the step/floor surface. Typically, white or bright yellow is used to contrast against dark floors. [49 CFR Part 38.25(b)]

#### Control Interlock:

The ramp doors shall be interlocked with the vehicle emergency brake or transmission to ensure the vehicle cannot be moved when the ramp is deployed. This interlock will meet all ADA requirements of 49 CFR 38.23b(2).

#### Wheelchair Securement Area for All Units:

Positive fastening wheelchair lock-in devices shall be provided for each wheelchair position.

Each securement device will consist of a four point, belt hold down system with all belts, hardware and fittings required to make a complete wheelchair securement device.

The following ADA requirements apply to the Wheelchair Securement Area:

Wheelchairs and mobility aids must be oriented as follows:

- For vehicles 22 feet in length or less, the one required position can be either forward or rear facing. Note - MoDOT only specifies forward facing securement positions.

[49 CFR Part 38.23(d)(4)]



Securement area must be located as close to the accessible entrance as possible. [49 CFR Part 38.23(d)(2)]

Interior handrails and stanchions should not interfere with the path of travel of a common wheelchair from the accessible entrance to the securement areas. [49 CFR Part 38.29(a)]

A clear floor area of 30 inches wide by 48 inches long must be provided for each securement area. This can include an area up to 6 inches under a seat as long as there is a vertical clearance of at least 9 inches. If flip-seats are utilized, they cannot obstruct the required floor area. The required floor area can overlap the access path (the path of travel from the accessible entrance to the securement area). [49 CFR Part 38.23(d)(2)]

A sign must be provided which indicates that the securement area is to be used by persons who use wheelchairs and mobility aids. Characters on these signs shall have a width to height ratio between 3:5 and 1:1 and a stroke width to height ratio between 1:5 and 1:10. Minimum character height (using a capital X) shall be 5/8 inch. Wide spacing shall be used (generally the space between letters shall be 1/16 the height of upper case letters). Letters must contrast with the sign's background color. [49 CFR Part 38.27(b), 49 CFR Part 38.27(c)] Note – this sign may be shipped “loose” from the factory. For the sign indicating the securement area is to be used by persons who use wheelchairs and mobility aids, that sign may be shipped loose for placement by the end-user/owner.

#### Retractable Wheelchair Securement System:

The wheelchair securement tie down belts shall be retractable into a protected steel housing to eliminate the need for belt cleaning and storage. The belt housing and mechanical retractor shall be designed for a minimum of five (5) year life. Belts must be WC18 compliant to meet the new WC18 “Best Practices” standard for securing belts to the mobility aid.

The location of the rear belts shall be such as to allow the driver to secure the wheelchair frame between the rear wheelchair wheels. The retractable belts shall feature positive locking mechanisms. The belts shall be equipped with a release tab to release tension on the belts when unfastening the wheelchair and to take up the excess belt when securing the wheelchair.

The retractable belts shall feature positive locking mechanisms with knobs. Once the front belts have been attached to the wheelchair frame, a hand tensioned knob attached to the belt housing shall be applied to bring the wheelchair into a state of securement. The front belts shall be designed for a minimum life of five (5) years. Front belts may also utilize a flush floor mount L-Track with flanged edges for securement to the floor. Floor tracks shall be a minimum of 48” apart (center to center). Sure-Lok Titan Model AL800 or Q'Straint QRT360 tie-downs or “approved equal” and must be WC18 complaint to meet the new WC18 “Best Practices” standard.

The four belts will attach to the wheelchair frame and to a series of tracks securely attached to, and recessed in, the floor of the van. Each track will have evenly spaced slots for adapting to any size wheelchair. All wheelchair securement tracks will be attached to the floor with Grade 5 or higher bolts that go through the floor. These tracks will be securely attached with nuts and washers to meet all requirements of ADA 49 CFR 38.23 and will run the entire width of the securement area(s). Welding of tracks will be acceptable provided they meet all pull tests.

There shall be provisions for storing all hardware and belts in a pouch on the inside rear wall of the van, or in durable metal or plastic containers (these will be mounted securely in the vehicle interior). Each securement area will be labeled as such.

Easy to secure and release seat belts and shoulder straps which will encompass both the wheelchair and occupant shall be included. Occupant restraint systems will not utilize manufacturer's standard restraint system. There will also be included a Torso Belt for each wheelchair passenger and four 16" "Quick Straps", or approved equal, for each securement location.

Include 20" adjustable occupant extension belts for each wheelchair position, Sure-Lok part number FE200637-020, or approved equal.

The following ADA requirements apply to the Wheelchair Securement System:

Securement systems must have the following design loads:

- For vehicles with a GVWR of less than 30,000 pounds: 2,500 pounds per clamp/strap and 5,000 pounds per mobility aid.  
[49 CFR Part 38.23(d)(1)]

The securement system must accommodate all common wheelchairs and mobility aids (any mobility aid not exceeding 30 inches in width and 48 inches in length and weighing no more than 600 pounds when occupied) and be operable by someone with average dexterity that is familiar with the system. [49 CFR Part 38.23(d)(3)]

Securement systems must keep mobility aids from moving no more than 2 inches in any direction. [49 CFR Part 38.23(d)(5)]

The securement system must be located to be readily accessed when needed but must not interfere with passenger movement or be a hazard to passengers. It should also be reasonably protected from vandalism. [49 CFR Part 38.23(d)(6)]

A seat belt and shoulder harness must be provided for each securement position. The seat belt and shoulder harness must be separate from the securement system for the mobility aid. [49 CFR Part 38.23(d)(7)]

#### Insulation:

A flame-retardant insulation material equivalent to that supplied by the OEM shall be used to provide sound absorption and a thermal barrier.

#### Interior:

Interior walls and headliner shall provide a finish that is durable, easily cleaned, and coordinates with the overall interior scheme of the vehicle.

#### Seating:

- The seating arrangement shall be as indicated by the floor plan descriptions.
- All seats (except driver's) will be vinyl or leather covered with a level 3 material.
- Driver's seat will be cloth covered. After market seats must be vinyl or leather.
- Adjustable driver's seat shall meet the following criteria;
  - Fore and aft adjustment of 8 inches minimum.
  - Shall recline.
  - Shall be equipped with a receiver buckle for a (3) three-point lap/shoulder restraint belt.
- Front passenger seat, if applicable (OEM removable seat is acceptable)
  - Shall have forward and aft adjustability of 8 inches minimum.
  - Shall recline.
  - Shall be equipped with a receiver buckle for a (3) three-point lap/shoulder restraint belt.

At least one set of forward-facing seats must be designated as priority seats for persons with disabilities. Signs identifying these as priority seats must be provided. Characters on these signs shall have a width to height ratio between 3:5 and 1:1 and a stroke width to height ratio between 1:5 and 1:10. Minimum character height (using a capital X) shall be 5/8 inch. Wide spacing shall be used (generally the space between letters shall be 1/16 the height of upper case letters). Letters must contrast with the sign's background color. [49 CFR Part 38.27(a), 49 CFR Part 38.27(c)] Note – the sign may be shipped “loose” from the factory. For the sign indicating that at least one set of forward facing seats are designated as priority seats for persons with disabilities, that sign may be shipped loose for placement by the end-user/owner.

#### Removable front passenger seat:

Shall be removable so a wheelchair passenger can occupy the front seat location.

- Shall be mounted on a base with wheels for ease of removal and installation, foot operated is acceptable, step and release mechanism.
- Shall be secured to the floor by means of (4) four pins mounted on the seat base and slots in the floor (pin and slot arrangement, or “dog-bone” type fittings).
- Each of the (2) two rear guide slots shall incorporate a latch mechanism operated by means of a single, quick-release handle connected to the latch.

- Shall be equipped with a receiver buckle for a (3) three-point lap/shoulder restraint belt.
- A (4) four-point wheelchair securement system, which also will accommodate a (3) three-point lap/shoulder restraint belt, will be installed at this location.

#### Fold A-Way Seat (if required):

- Fold-A-Way type seats shall meet all dimensional, structural, and testing requirements of the standard seat specification.
- Seats shall be forward facing for ambulatory passengers and fold against the wall when wheelchair space is required.
- In the folded position, the seat may extend into the van no further than necessary at 90 degrees to maximize space for wheelchair loading and positioning. A free 48" X 30" securement area must be maintained.
- Fold-A-Way seats will meet all required FMVSS.
- Fold-A-Way type seats shall be a Freedman 3 pt, or approved equal.
- All hardware to attach folding seats to floor shall be recessed to prevent tripping and stumbling at those times after the folding seat is removed from the vehicle.

#### Rear Bench Seat:

- Standard, OEM folding, (3) three-passenger rear bench seat for Floor Plan AAA and standard; OEM folding, (2) two-passenger rear bench seat for Floor Plan BBB.
- When rear seat is utilized; passenger restraint belts and latches will be in place for each designated seating position.

#### Foot Rest:

- Should be fold-up or self-retracting footrests placed just ahead of the rearmost bench seat.
- Foot rests shall be covered with a non-skid surface.
- Modified seat height will also be acceptable in lieu of a foot rest.

#### Emergency Exit:

- Rear bench seat shall fold forward or otherwise provide room to facilitate exiting the vehicle through the rear door in an emergency.
- Rear door shall be clearly marked as an emergency exit with instructions as well.
- Emergency door will have lighting and signage that meets FMCSR 393.92.

### Electrical:

- Wiring shall comply with the following provisions.
- All wiring other than that provided by the chassis OEM shall be PVC or better insulated and color-coded for positive identification.
- Precautions shall be taken to prevent damage from heat, water, solvents, and chafing by proper routing, clamping, and the use of grommets or suitable elastomeric cushion materials.
- All vehicles shall be identically wired .
- Complete wiring schematic diagrams shall be furnished for all electrical equipment and circuitry, complete with wiring color codes.

### Interior Lighting:

- A dash mounted warning light indicating the wheelchair ramp door is open shall be included.
- Lighting producing a minimum of (2) two-foot candles of illumination on entrance ramp area shall be provided.
- Wheelchair ramp area lighting shall be activated whenever the ramp access door is open.
- Lights and signage on any door considered an emergency door shall meet FMCSR 393.92.

### Exterior Lighting:

- All exterior and interior lighting shall be in accordance with Federal Motor Carrier Safety Regulations (49 CFR 393.11).

### Backing Camera and Display:

The OEM standard backing camera system.

### **Safety Equipment – All securely mounted (in vehicle rear)**

#### Blood Borne Disease Kit:

- In a durable metal or plastic box including the following nine (9) items:

latex gloves	CPR Mask
goggles	apron
disinfectant wipes	absorbent
scoop	I.D. tag
red plastic bag	

#### First Aid Kit:

- A 16-unit or greater kit shall be provided in a durable metal or plastic box.
- Box shall be located in rear storage container.

#### Fire Extinguisher:

- A 5-pound or larger type BC unit shall be provided.
- Shall be secured by means of a mounting bracket to the rear storage container.

#### Reflectors:

- (3) three folding triangular red reflectors with storage box shall be provided with 3 LED warning lights, Tri Alert, or approved equal.
- Storage box shall be secured and located in the rear of the vehicle.

#### Back-up Alarm:

- An electrically operated device that produces an intermittent audible signal when the vehicle's transmission is shifted to reverse shall be provided.

#### Seat Belt Cutter:

- Shall be mounted within reach of the driver.

#### **Floor Plan Descriptions:**

FLOOR PLAN AAA - Will provide two wheelchair positions, with a removable right front seat. A folding three-passenger bench seat will be in the rear and the standard right front passenger seat will be utilized. There is no fold-a-way seat in the securement area.

FLOOR PLAN BBB – This floor plan will transport two wheelchairs, one in the right front and one in the middle. The middle securement area will have a two-passenger fold-a-way seat to be utilized if there is no mobility aid. The three-passenger rear bench seat will fold forward for access to the rear door as needed.

If there is a conflict between the written specification and the floor plan diagram, the written narrative controls.

Advertisements:

A dealer identification decal no larger than 20 square inches in area may be displayed on the back of the vehicle and/or under the hood in the engine compartment of the vehicle.

Clip Board Holder:

Shall be mounted within drivers reach.

Warranty:

A Bumper-to-Bumper Warranty shall apply to all vehicles and shall last for three years or 36,000 miles after delivery, whichever occurs first. Vehicles delivered by driving them (not to exceed 1,500.0 miles—see DELIVERY section) will have the warranty begin at the actual vehicle mileage at the time of final delivery at the purchasing agency's location. A properly executed warranty MUST be delivered with each vehicle. POWER TRAIN SHALL HAVE THE OEM MANUFACTURER'S WARRANTY if it exceeds the three year/36,000 miles warranty stated above.

On-Site Repair Calls: After the final acceptance of the delivered vehicle (which includes the thorough inspection and verification of equipment ordered and condition of the vehicle), and during the 3 year/36,000 miles after delivery bumper-to-bumper warranty period, the purchasing agency is allowed a maximum of two "on-site repair calls" as follows: if warranty work is required that cannot be repaired through normal efforts by a local dealer at the purchasing agency's location, the purchasing agency will call the vendor, and the vendor must either:

- 1) Send a service agent to the purchasing agency's location to repair the vehicle on-site, or
- 2) Pick up the vehicle on-site and take it to the vendor's location, factory, or other authorized repair location to be repaired and then return it to the purchasing agency's location.

The warranty work performed under these "on-site repair calls" shall be at no cost to the purchasing agency and must be conducted so as to minimize the vehicle's out-of-transit service time.

All service called for in the warranty shall apply without exception. An owner's care book shall also be included with each vehicle. A copy of a detailed maintenance and inspection schedule supplied by the respective manufacturers of the vehicle and its subsystems (e.g. wheelchair lift, etc.) shall be included with each vehicle.

Vendor is responsible for coordinating all warranty work of ALL equipment on the vehicle during the warranty period. All repairs need to minimize the number of days the unit is out of service.

Costs of warranty service trips for vehicles in the first 18,000 miles of the warranty period is at the expense of the vendor. This includes fuel and salary of agency's driver. Service is to be completed in a timely manner so as to not inconvenience the agency and their clients. This does not include OEM warranty work performed at a local OEM dealership.

**Miscellaneous items:**

**The following must be furnished and included with your bid (in addition to bid pricing forms and signed certifications):**

- A complete detailed listing of the vehicle, requested drawings and modifications of the equipment proposed to furnish.
- A detailed drawing showing interior floor plan, dimensions and seating arrangements shall be included.
- A SCHEMATIC OF ANY INSTALLED WIRING SUCH AS WILL BE FURNISHED WITH EACH VEHICLE
- A guarantee that the chassis manufacturer's warranty will be in effect at the time of delivery and acceptance.
- A copy of the air conditioning warranty, (heating and cooling assemblies), and wheelchair ramp warranty.
- An itemized list of domestic produced parts or components used in the manufacturing of the vehicle.
- A narrative description of the final assembly processes at the identified final assembly point,
- The estimated cost for each domestically produced item listed.
- The estimated total percent of domestic components used in manufacturing of the vehicle.
- Identification of the location for final assembly of the vehicle,
- One copy of report for testing conducted by FTA Bus Testing Facility for Floor Plan AAA or Floor Plan BBB bids.
- A statement of FMVSS compliance.

**Items Furnished at Time of Delivery**

- An operator's manual for chassis and any aftermarket accessories installed during the conversion,
- MSO and title application will be provided at time of delivery with MoDOT shown as lien holder and end user agency shown as the owner.
- A schematic of any installed wiring shall be furnished with each vehicle.
- A documented leak-free water test performed prior to delivery.
- A documented four-wheel suspension alignment after modification, prior to delivery.



- Manuals
  - In addition to the vehicle OEM owner's manual, a manual prepared by the manufacturer, which contains all pertinent operating, and service instructions shall be provided with each vehicle at delivery.
  - The instructions will cover all components and accessories added or modified during the conversion including the mobility aid ramp.