



MISSOURI DEPARTMENT OF TRANSPORTATION
ADULT PASSENGER MODIFIED RAISED ROOF VAN
WITH CURB SIDE/WHEELCHAIR LIFT VEHICLE SPECIFICATIONS

1. 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 highway and city transportation for ambulatory and non-ambulatory adult passengers.

SHODDY AND INFERIOR QUALITY MATERIALS AND WORKMANSHIP WILL NOT BE ACCEPTABLE.

2. Acceptable makes and models:

2006 or 2007 Chevrolet or GMC model 30 or G3500 extended van with 155" wheelbase.

2006 or 2007 Model Ford E350 Cargo or Window Super Van with 138" wheelbase.

60% domestic content, final assembly point in USA

“or approved equal”

3. GVW Rating, Minimum 9,000 lbs.

4. Body, Exterior: Shall have manufacturers 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 into van. All vehicles will be thoroughly water tested before delivery.

5. Body, Interior: Standard comfort and convenience items. They shall be all manufacturers standard items and equipment, plus all 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.

Headliner or Ceiling - Shall be full length for driver and passenger area. This headliner shall have longitudinal and cross member supports where needed to prevent flexing and vibrations. The supports shall not be visible from the interior.

Paneling and Trim - To be complete on all doors, walls, ends and corners. Only side panels and trim similar to OEM quality will be acceptable.

The ceiling interiors shall be of metal, fiberglass or similar type material. The material shall be fire resistant, sanitary and easily cleaned. Home type wall paneling or carpeting will not be acceptable. There will be a full-length headliner (smooth surface) located above the

driver and passenger areas.

Floor and Floor Coverings - The entire floor except driver's area, is to be made level from end to end and side-to-side with plywood a minimum of 1/2" thick securely placed over the metal floor by glue, screws or a combination of methods that will assure a permanent fitted floor. The subfloor shall be covered with a minimum of 2.2 mm thick vinyl transit type floor covering. All seams will be heat welded. The rear wheel housings will be covered with a quality type of carpet or rubber to help deaden sound from road debris. Any sound deadening material is acceptable.

The entranceway and aisle will be non-skid type and under the seats it will be smooth with anti-skid properties. The aisleway will be made of a high visibility yellow or white.

For the benefit of sight-impaired passengers, the floor covering color shall be contrasting to the vehicle interior, including seat-covering material.

All exposed edges around the wall, doors and entranceways shall be trimmed with a metal molding securely screwed or glued in place. The driver area shall have insulated floor covering and mat. The meeting point of the wall and floor shall be properly trimmed with metal, ABS, or rubber material.

Insulation - The entire interior dash firewall, engine cover, lower panels, doors, floor, sidewalls, ceiling, headliner, etc. shall be insulated. Insulation shall be 1" thick fiberglass or polyethylene.

Insulation must be completely enclosed by the ceiling, wall panels, window moldings, etc.

Scuff Pad - Side step sill, full length for front driver entrance.

Grab Rails and Stanchions- A floor to ceiling stanchion shall be installed near the aisle and immediately left of the entrance door. This stanchion shall be connected to the vehicle right hand sidewall by a guardrail. This panel shall be padded on the side facing the passenger seating positions.

An upright supporting type stanchion or grab rail shall be installed from the floor to the ceiling at the right of the entrance door, within easy reach of boarding passengers. This supporting stanchion shall provide passenger-boarding assistance. This grabrail can also be mounted to the door opener, if desired.

There will also be a floor to ceiling stanchion guardrail and modesty panel installed directly behind the driver's seat. This stanchion and guardrail will not affect the adjustment of the driver's seat.

Stanchions shall be securely attached to the ceiling and floor with at least two screws at top and two at bottom. These screws will go into some substantial material to reduce the chance of coming loose. The stanchions and guardrail shall be tubular, bright finish metal, covered and durable, premolded, high-density energy absorbing padding.

There will be an exterior grab handle securely mounted on the left door pillar by the driver's entrance door. Approximate length is to be 6".

Certification - All materials including insulation used in the interior shall be the latest fire resistant type that meets or exceeds all State and Federal requirements on the date of manufacture. (FMVSS 302) A certification shall be fixed to the vehicle and be plainly visible. FMVSS 302 compliance includes but is not limited to items such as raised roof, headliner, insulation and plywood sub floor.

6. Seats, Seating Arrangement and Seat Belts (See Exhibits A, B, C and D) - This arrangement shall provide seating as listed below and shown on the appropriate exhibit. If there is a conflict between the written specification narrative and the floor plan diagram, the written narrative controls.

EXHIBIT A - This seating arrangement shall provide one two-passenger forward facing seat on the left side, two one-passenger seats on the right side and two forward facing wheelchair positions.

EXHIBIT B - This floor plan will have two 2-passenger fixed seats on the driver's side of the vehicle located towards the rear. There will be two 2-passenger fold-a-way seats located over the wheelchair securement area to be utilized if there is no wheelchair. The passenger side will have two 1-passenger fixed seats located behind the lift on the curb side.

EXHIBIT C - This floor plan will provide permanent ambulatory seating capacity for four adults and provide one permanent wheelchair position. The second wheelchair position will be an interchangeable arrangement between wheelchair tie downs and two, two-passenger folding seats. The hardware for mounting the seats will be recessed sufficiently enough to eliminate the possibility of tripping or stumbling.

EXHIBIT D - This floor plan will provide for (4) four wheelchair positions as shown on exhibit D. All one and two passenger seats will be folding.

The driver's seat shall be an electrically power fully adjustable high back bucket type with HD cloth covered full depth foam padded seat cushion and backrest. Include a folding armrest on RH side.

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

All seats will meet or exceed the requirements of FMVSS 210.

Fold-A-Way Seat Requirements:

Fold-A-Way type seats shall meet all dimensional, structural, and testing requirement of the standard seat specification.

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All 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 bus no further than 10" installed at 90 degree to maximize space for wheelchair loading and positioning.

In the down, fixed position, the seat may not extend into the aisle more than 36" (2 passenger) to preserve aisle space.

Fold-A-Way type seats shall be Braun 125 Model, Freedman 3 step Fold-A-Way, C. E. White Model ADA-35, American Seating E-Z Fold, or approved equal.

The two-passenger seats shall be a minimum width of 35"; the one-passenger seats shall be a minimum width of 17".

All seats shall be a minimum depth of 16"; the backrests shall be a minimum depth of 2". On all vans there will be handholds on the upper top edge of the aisle side of the passenger seats and armrests folding on the aisle sides of the forward facing seats. All handholds will be mounted on top of the seats and adequate padded (no notched corners).

All passenger seat cushions and backrests shall be covered with HD Level 3 vinyl material. Seat cushions and backrests shall have full depth foam padding. The seat cushion padding shall have a density (4" minimum) sufficient to support occupants without bottoming. Seating material will be a minimum of 36 oz.

Seats will be placed to allow adequate shoulder room for passengers sitting next wall. The walk-through aisle between right and left hand seats shall be a minimum of 10" when measured between cushions.

Seat spacing shall be a minimum of 30" centers and/or 24" hip to knee room, providing adequate adult knee room. All seat frames will be painted or powder coated to prevent corrosion.

Fixed seats shall be a Braun Model 117, Freedman Low Back, C. E. White Model L-35-LB, American Seating Model 8530 or approved equal. The driver and all passenger seats shall have best quality seat belts properly located and easily accessible. The driver and all outboard passenger seats shall have equal length, two-piece belts and retractor with a minimum usable extension of 60", adequate to encircle and secure at the hips from the smallest to the largest size passenger that will be expected to use the belt, regardless of where the belts are anchored. The belts shall latch at the points as described in FMVSS 208. All window side passenger seats will have shoulder straps. At least two of these shall have a sliding adjustment to allow more comfort for passengers. Include three 9" seat belt extensions with each vehicle. All aisle seats will have non-retractable lap belts with 80" minimum length. Belt length will be measured bolt to bolt.

All modified vans will have two ambulatory seating positions that have non retractable lap belts for the use with child safety seats. These will be located in the center of the vehicle on

the aisle sides of the seats.

Floor Plans A, B and C will have one integrated child seat that will safely accommodate children between 20 and 60 lbs. This seat will be of a fixed one or two-passenger design and will be located at the rear of the vehicle. Freedman ICS, American Seating ICS, or approved equal will be acceptable. These seats may vary in height from adult seats.

Floor Plans A, B, C and D will have at least three seating positions that meet the FMVSS 225 latch system requirement for child safety seats. They may be located on either fixed seats, or folding seats and must be designated safety seat locations. The preferred location of these positions will be on the aisle side of two-passenger seats.

7. Roof - The standard roof shall be removed and replaced with a steel, aluminum or fiberglass raised roof or roof and side panels. The replacement roof will be 30" high. The raised roof or roof and side panels shall be completely joined and be integral with the basic body and front and rear ends, side panels, and underbody structure by welding, riveting or bolting, or combining these methods to prevent separation at any point between the modification and basic body. Sheet metal screws will not be allowed.

This restructure and modification must be done in a manner that will not destroy the structural integrity of the basic vehicle. The material used and construction method must prevent vibration and drumming. Vehicle must meet FMVSS 220 for rollover.

All exterior and interior surface edges shall be turned, rounded or closed off and all protrusions must be either eliminated or adequately padded.

The roof must be supported and reinforced by a collapse resistant steel rollover protective structure (ROPS) that will be an integral part of the complete body.

The roof and ROPS structure must be capable of supporting the fully loaded vehicle if overturned. This structure must encompass the entire driver and passenger compartment.

The installation must provide complete weather and dust proofing.

Special attention should be given during construction and assembly to prevent corrosion.

The interior height from floor to ceiling for the entire van, within 12" approximately from each side, shall be a minimum of 72".

The exterior roof height, while providing maximum interior headroom, must not cause the vehicle to be top heavy and unstable. The roof should be aerodynamically designed to allow for minimum wind resistance.

8. Roof Ventilator/Emergency Exit: A dual purpose manually operated roof ventilator/emergency exit shall be installed in the extended roof of the vehicle at approximately the center of the passenger compartment. The hatch shall be 23" x 23" minimum and shall be installed so that when it is open and the vehicle in a forward motion

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fresh air will be provided inside the vehicle. The hatch may be a Transpec Inc. Model 1000 regular profile, Transpect Model 1075 Low profile, or an approved equal. Econo Model not acceptable.

9. Windshield and Window Glass - Safety plate windshield and window glass all around.

LH front side door drop glass.

RH dual side load doors FMVSS Safety glass in the upper half. Fixed glass in each rear quarter panel. OEM glass is acceptable.

Standard factory installed windows requiring no body modifications are the only acceptable windows. (Except in aftermarket doors)

All windows will have inside latches and locks for security.

RH side service door will have FMVSS Safety glass in the upper and lower portions.

The windshield and front door glasses will be tinted; all other windows will have privacy sunscreen type glass. (Approximately 30% light transfers on passenger windows). Only factory sunscreen will be acceptable on OEM windows.

10. Doors

Front - Drivers side (LH) standard van door with roll down window.

Entrance RH – Curb side lift models only - Standard OEM door will be removed and replaced with a Transit style single or double forward folding, in-out or out-out opening type. This door shall provide no stoop entry headroom with a minimum of 80” entrance height from the top of the first entrance step to the door headliners. The minimum width shall be a 23”. The top of the door entrance shall be fully enclosed and protected from weather and other elements. It shall have protective padding to prevent head injury when entering or exiting. Door will meet ADA requirements 49 CFR 38.25.

All vehicles will have an electrically operated door. The electric door will also be forward folding, in-out or out-out opening type. A switch from the driver’s areas will operate this door. The door and control arms will be located above the door area, not beneath the stepwell.

This door shall have a below floor level entrance stepwell, with a minimum of two steps. These steps shall be stationary, corrosion resistant steel, adequately braced and be an integral part of the basic structure. The height from ground to top of first step of empty vehicle be a maximum of 13-1/2” and a minimum of 10”. Additional step heights will be a maximum of 11”; the head depth for all steps shall be a minimum of 8”. All of the steps shall be level and the risers shall be vertical and not angled. Step width will be a minimum of 24”.

Each step will be covered with molded rubber or vinyl. The step covering will be non-skid

type tread with white or yellow nosing. The riser shall be covered, painted or coated with scuff resistant material. Galvanized steel is acceptable.

These steps will be fully recessed, enclosed and protected from weather and other elements.

A stepwell light shall be provided and automatically operated by door control.

The entire door shall be weather stripped to provide a water and airtight seal. The door edge seals will be the over-lapping type to provide maximum sealing ability.

The door opening shall be structurally reinforced to have the same structural integrity as the body.

RH side lift door or doors – Standard cargo doors will be removed and replaced with single or dual swing-out type door or doors (single preferred). Gas cylinders will be provided to keep doors open during lift operations.

The door(s) height extended from the floor to the top and side-to-side of the entranceway shall provide adequate clearance for the ramp and wheelchair entry. (60” minimum height and 40” minimum width)

This entranceway will be located forward in the right hand side of the body, across from the wheelchair securement area along the curbside. Lift door will meet all requirements of ADA 49 CFR 38.25.

The entranceway shall be protected from weather and other elements and be padded to prevent head and other injuries to passengers when exiting and entering.

There will be keyed switch located on the RH side of the vehicle to allow the operator to open and close the passenger entrance door from the outside.

Rear Door - This door shall be double type with fixed glass and will remain fully functional. This door will be lighted and marked as an emergency exit per Federal Motor Carrier Safety Regulations 393.92. After market doors are acceptable as long as they meet OEM quality.

All doors will have factory installed position hold and check arms.

All doors will have factory installed exterior and interior handles and locks.

The rear door must have an inside handle and lock, conveniently located.

All OEM doors must retain factory exterior and interior locks and handles.

11. Instrument Panel and Instruments - Full width pad with speedometer and odometer and needle type gauges for fuel, oil pressure, water temperature and etc.
12. Mirrors, Rearview - Interior, Day-Night type. Exterior LH and RH below eye-line type

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power adjusted. Approximate size 6" x 9". Also include left-rear mounted convex mirror to allow driver view directly behind the vehicle. (approximate 8" in diameter). This mirror will have a telescoping post to facilitate adjustment. Include a 6 x 12 interior rear-view mirror above the driver to facilitate a better view of the passenger area.

13. Hood Release Lock - In cab operated.
14. Windshield Wipers and Washers - Electric, two-speed intermittent.
15. Miscellaneous Interior Items - Armrest for front driver door and padded sun visor for driver, ashtray for front driver area cigar lighter, tilt steering wheel and cruise control.
16. Radio - AM-FM pushbutton.
17. Lights and Signals

Exterior - High and low beam headlights, parking, tail, stop, backup, front and side marker lights or reflectors license plate, hazard warning flashers, self-canceling directional signals, daytime running lights and back-up warning beeper. No exterior lights will be mounted that could be torn off during normal operation. There will be two red strobe type lights mounted on the rear of the van that will be visible when both doors are open. They will be 6" in diameter and will be wired to operate when the lift doors are open.

The add-on roof will be marked with 2" wide by 6' long diamond grade reflective sheeting in the following manner;

- A. Across the top rear red/white
- B. Along both sides - center - white

Interior - Instrument panel, front and rear overhead lights, and all doors. Overhead lighting, activated by a dash-mounted switch, shall provide lighting intensity at a reading level. All door lights and RH front door stepwell shall illuminate automatically when doors are open.

All interior lights shall be adequately recessed or a type that will not be a hazard to occupants. Interior light fixtures shall be operable with or without engine running. All interior lights run on their own circuit.

All interior wiring shall be insulated and covered. A schematic of the installed wiring shall be furnished with each vehicle.

18. Wheelchair Lift

The lift shall be an electrohydraulic type providing power-up, power or gravity down and power or automatic fold. The power source shall be the vehicle 12-volt electrical system. The lift will be mounted within the body with access through the right side load door or doors. Modifications for the lift installation must not affect the structural integrity of the basic vehicle.

The lift shall have a minimum rated working load capacity of 800 lbs.

The lift will have no dirty or greasy surfaces that will contact the wheelchair occupant during normal operation.

The lift platform shall be constructed of expanded metal with a minimum usable width of 33" and a minimum depth of 51".

The lift shall have the following:

Meet all aspects of FMVSS 403 & 404 for the public use lifts.

These lifts will have nine interlocks as defined in FMVSS 403.

A manual override to lower, to raise and an emergency platform release for use in the event of total power failure.

A platform device that locks in an upward position acting as a curb when the platform has departed ground level and pivots downward upon ground contact, acting as an entry ramp. There will also be this similar safety barrier located on the inboard side of the lift platform. Both of these barriers will be at least 6" in height.

Door activated power cutoff device to prevent movement of the lift when vehicle doors are closed.

Two handrails for use by the wheelchair occupant or standee. These rails shall automatically fold up or down with platform movement and shall fold flat against the platform during transport.

An automatic down pressure cutoff device shall stop downward movement of the platform upon contact with any obstruction or the ground.

A dash mounted master power control device providing complete on and off power control shall be located forward, easily accessible to driver while either seated or standing.

The lift shall have automatic controls to perform all functions. The control shall be hand held, cord mounted console control, with sufficient cord length to allow operator to control the lift from inside or outside.

Any part of the lift assembly protruding into the body that could be hazardous must be properly padded for passenger protection. This will include the lift end barrier.

The electro hydraulic lift system shall have a monitoring device requiring no tools to allow for a quick and easy fluid level check.

Both types of lift systems and mechanisms must be easily accessible for repair and maintenance without dismantling and removal from body.

The lift may be a Ricon S-2005 Series, Maxon WL-7 or equal approved. Any lift that utilizes pressure sensitive micro switches on their bridge plate to meet FMVSS 403 requirements for threshold warning will not be accepted.

Lifts other than those specified will be considered but they must be equal in type, quality and performance. Descriptive literature and detailed specifications must be included with your bid. The vendor will supply and install a lift that meets all requirements of ADA, 49 CFR 38.23.

19. Wheelchair Securement Area for All Units

Positive fastening wheelchair lock-in devices shall be provided for each wheelchair position. All securement devices will be easy to attach to floor with mobility aid in place and will meet the 30 miles per hour 20g impact test criteria.

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

These belts will utilize “S” hooks to attach to mobility aid.

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. Two of the belts will be ratchet or overcenter tensioning and the other two belts will be hand tensioned. 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 adequate nuts and washers to meet all requirements of ADA, 49 CFR 38.23 and will run the entire width of securement area(s). Tracks may be welded, providing they meet all pull test certification. Tracks will be a minimum of 48” apart, center to center.

There shall be provisions for storing all of the hardware and belts in pouches on the wall of the van. Floor mounted, durable metal or plastic boxes will also be acceptable.

On the floor plans with two or more wheelchair positions, there will be two tracks next to each other to avoid having to “share” a track.

Easy to secure and release seat belts and shoulder straps which will encompass both the wheelchair and occupant shall be included. There will also be included a Torso Belt for wheelchair passengers. Include four “quick straps” to assist in wheelchair Securement. (OR approved or equal) Belts will encompass any size passenger.

All bolts used in wheelchair securement modification shall be a grade 5 or higher. All wheelchair securement devices and installation will meet ADA requirement 49 CFR 38.23.

20. Air Conditioning, Heating and Cooling - Front and Rear

Chassis Manufacturer's Optional

Front integral deluxe high-output cooling, heating and defrosting unit with integral auxiliary rear cooling and separate heating for rear passenger area. The three-position speed controls for front and rear operation shall be front mounted easily accessible to driver and adjustable, unrestricted by modification air flow outlets are to be located front and rear providing heating and cooling throughout the driver and passenger compartments. Heaters are to be floor mounted and air conditioning is to be roof mounted. Roof mounted air conditioning to be adequately padded to prevent injury, and rear heaters are to be mounted behind rear wheel wells. Rear a/c unit is to have vents so passengers sitting directly below can receive cool air. Include a 6" two-speed (off, low, high) auxiliary fan mounted in the driver's area.

All (chassis and body) air conditioner components will be compatible with R-134 A refrigerant.

There shall also be a skirt-mounted air conditioner condenser to attain the required BTU cooling output. There will also be two rust proof shields provided to protect condenser from rocks, etc. thrown from tires, one located at the front and one located at the rear of the condenser. This unit is to be horizontally mounted and installed flush in the lower body panel. This will be accomplished by cutting a hole in the lower body panel.

If, for modification purposes, a different type of heating and cooling system is required, the reason must be fully explained and the system you propose to use must be described and this explanation and description is to be included in your bid.

The supplier must guarantee that the heating and cooling system he proposes to use will provide passenger and driver comfort. Rear air conditioning will have a minimum capacity of 32,000 BTU's. Front A/C is to have a minimum capacity of 12,000 BTU's. Rear heater capacity will be a minimum of 30,000 BTU's. Include with the bid all information regarding the air-conditioning and heating system to be installed. (i.e. make, model number, BTU output, etc.)

21. Chassis Requirements

Include a Power Group Option. The option package includes power windows/locks, keyless, and power mirrors.

Engine - Gasoline V8, minimum 240 hp, providing necessary horsepower and torque at governed R.P.M. for road speed and grade ability. The engine shall have a full flow replaceable or spin on type oil filter.

Trailer Towing Package or equal. Delete hitch assembly.

Cooling System - Heavy duty or maximum cooling radiator with overflow recovery reservoir and permanent type anti-freeze installed to protect the vehicle to at least 20 degrees below zero.

Transmission - Automatic, 4-speed overdrive with an auxiliary exterior oil cooler.

Alternator - Minimum of 120 amperes.

Chassis is to be equipped with a Pentax automatic or InterMotive AFIS fast idle solenoid control (or approved equal). Fast idle shall be automatic, activated when a low voltage situation is detected and with only the transmission in park. Fast idle will not engage upon activation of the parking brake.

Battery - HD with adequate CCA and reserve capacity for operating van electrical options (minimum 600 CCA).

Steering – Power include tilt wheel and cruise control.

Brakes - Power

Axle, Front - Minimum of 4,000 lbs. capacity.

Axle, Rear - Minimum 6,000 lbs, capacity, ratio approximately 4.00 to 1.

Drive Shaft Guard - Minimum of two.

Springs, Front - Heavy-duty coil with a front stabilizer bar.

Springs, Rear - Heavy duty, leaf type.

Shock Absorbers - Heavy duty, front and rear.

Fuel Tank or Tanks - Minimum capacity 31 gallons.

Tires and Wheels - The tires and wheels will conform to the tire and rim association standards. They will be factory installed by the truck manufacturing company. Acceptable tire makes will be those listed as being available in the tire section of manufacturer's Truck Data Book on specification date.

Tires - Tires will be a major brand (not Firestone), factory installed, and meeting manufacturer's specifications. Five (front, rear and spare), minimum size 245 x 75 R16, steel belt radial, blackwall tubeless, all season tread. Spare tire and wheel with cover is to be located inside the body, if possible. But, if necessary, an exterior mount on the rear door will be acceptable. Exterior mounting shall provide for adequate spacing between tire and tail lights when door is opened. Tire mounting will not interfere with door opening and will be adequately supported to prevent body metal fatigue at all mounting locations. If spare tire and wheel are factory mounted under vehicle, please disregard external mounting.

Wheels - Five 16" x 6.5", 8 stud disc.

Tire Changing Tools - The jack will be of the best quality and have adequate capacity to raise

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a loaded vehicle and be the type, which will allow for easy removal of wheel and tire from under the raised vehicle. The wheel wrench will be the best quality tool of sufficient length to permit removal of wheels in the safest manner. Adequate and safe stowage will be provided.

Hub Caps - Four

Bumpers - Front and Rear

Undercoating - The entire body understructure shall have a heavy, long lasting undercoating material meeting FMVSS 302. Automotive quality undercoating will not be acceptable.

Running Boards - Vehicle will be equipped with (1) one 8" wide by 36" long aluminum running board mounted at the drivers door location. It will be a minimum of 1/8" thick and will have a diamond embossed or other anti-slip design on the footing area. This running board will be securely mounted with at least 3 braces that will be made of galvanized steel to resist rust. A non-skid expanded metal will be installed on the entire step surface to prevent slipping (at least 3). Diamond embossed only will not be acceptable.

Safety Equipment - New unit(s) to have all the latest standard safety equipment required by laws and regulations.

This equipment shall include a 5 pound 10 BC Class fire extinguisher, a standard size first aid kit containing an assortment of bandages and medications suitable for the care of minor cuts, burns, and three reflective bi-directional triangles, of which are securely mounted in the driver's area. These triangles will include 3 LED lights (Tri Alert or approved equal). Also include an assortment of spare fuses used in the vehicle and an emergency seat belt cutter.

Each vehicle will have a blood borne disease kit including the following ten (10) items: T latex gloves, CPR mask, goggles, apron, disinfectant wipes, absorbent and scoop, I.D. tag and red plastic bag. All first-aid and bloodborne disease kits will be packaged in durable metal or hard plastic cases.

All bidders shall describe and furnish a complete detailed listing of the vehicle, requested drawings and modifications of the equipment he proposes to furnish.

Each vehicle will be equipped with a reverse alarm or backing alarm. This alarm will be mounted in a location that will protect it from road debris.

A detailed drawing, showing interior floor plan and seating arrangements shall be included.

A detailed drawing for RH front door entrance stepwell.

A detailed drawing for the RH front door and wheelchair access doors modifications.

A SCHEMATIC OF ANY INSTALLED WIRING SHALL BE FURNISHED WITH EACH VEHICLE.

A guarantee that the chassis manufacturer's warranty will be in effect at the time of delivery and acceptance, regardless of odometer reading or date of original purchase by supplier.

A copy of the warranty on the air conditioning, if other than chassis manufacturer's optional and on the wheelchair lift and securement devices.

Estimated curb weight of the completed vehicle.

Heating and cooling system guarantee (page 11). Description of heating and cooling and air-conditioning system (page 11).

To be furnished with each vehicle at time of delivery:

A parts book and a service manual for all add-on equipment used in modification.

Include with your bid a list of dealers or service centers for all add on equipment used during the conversion.

An operator's manual for the basic chassis and other systems.

Any conversion electrical access panel will be mounted in a convenient location.

22. Color

Exterior - To be standard available solid white – chassis and roof.

Interior - The interior trim, upholstery, seat belts, visors, etc., will be color keyed to exterior color.

23. Advertisements - Decals and all other forms of dealer advertisements will not be allowed.

24. If bidder is unable to furnish a 2006 model van, a 2007 model may be substituted but must be furnished at the bid price quoted. This will only be required if a vendor fails to order a chassis in time.

25. Exceptions to specifications must be clearly noted and included with your bid for consideration.

26. Bidder guarantees that any paint applied during van modification will not show through with rust for 3 (three) years from date of delivery.

27. Van conversion will carry a minimum of 12 months unlimited mileage warranty on all conversion workmanship and materials.

28. Bidder will certify that the vehicle they will supply meets all Federal motor carrier safety regulations.

29. Buy American Certification – Final Assembly Point. The final assembly point for the Buy-American requirement is the location of the final conversion.
30. Include as an option on all floor plans. Safety Vision SV 5000, Backing Vision BV 1350 (or approved equal) backing vision system.

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