



# STATE OF LOUISIANA

## Competitive Contract

Vendor: 310128664  
Company  
MODEL 1 COMMERCIAL VEHICLES INC  
9225 PRIORITY WAY W DR STE 300  
INDIANAPOLIS IN 46240  
Phone : 469-333-8909  
Fax : 469-333-8918

T Number: 92122  
Version: 9  
LAPS Contract: No  
Fiscal Year: 2021  
Min.Ord.Value: 0.00  
Distributor Contract: No  
PCard:No  
Co-op Agreement:Yes

Contract number: 4400020163  
Description: FTA Modified Vans and Buses Statewide

**Buyer Information**  
Name: AMY GOTREUX  
Tel Number: 2253429200  
Email: amy.gotreaux@la.gov

SEBD Vendor: No  
SEHI Vendor: No  
VSE Vendor: No  
DVSE Vendor: No  
Contract Valid Dates:  
08/24/2020 - 12/23/2024

Delivery: 365 Days After Receipt of Order  
**Supplier Text:** FTA Modified Vans & Buses Statewide

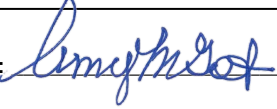
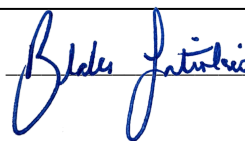
This contract is effective for the period beginning January 24, 2024 and ending December 23, 2024.

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Please visit our website at <http://fleet.la.gov> to view all vehicles on State contract. The most current vehicle pricing and ordering instructions can be found there.  
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See the attachments for line item details, contract terms and conditions, and specifications.

This contract has been designated as a cooperative purchasing opportunity. Quasi State Agencies or other Political Subdivisions of the State, agencies of the United States government, and other buying organizations not located in this state which, if located in this state, would qualify as a public procurement unit may utilize this contract.

**Notice to Vendor:**

Recommending Approval:  Approved by: 

Contract number: 4400020163  
T Number: 92122

Vendor: 310128664  
Distributor Contract: NO

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Line	Material No. ----- Supplier Part No.	Description	Prod. Cat.	UOM	Net Price	Discount
1		FTA Modified Vans and Buses	25101500		0.00000	

### Standard Terms and Conditions

1. THIS IS NOT AN ORDER TO SHIP (OR BEGIN SERVICE). A CONTRACT RELEASE OR PURCHASE ORDER MUST BE ISSUED BEFORE YOU ARE AUTHORIZED TO SHIP (OR BEGIN SERVICE).
2. THIS IS NOTICE THAT THE CONTRACT REFERENCED ABOVE HAS BEEN AWARDED TO YOU BASED ON THE BID (OR PROPOSAL) SUBMITTED. ALL TERMS, CONDITIONS, AND SPECIFICATIONS OF THE SOLICITATION WILL APPLY TO ALL ORDERS.
3. ANY AGENCY AUTHORIZED TO PURCHASE FROM THIS CONTRACT MUST ISSUE AN ORDER AND REFERENCE THE CONTRACT NUMBER, LINE NUMBER AND COMMODITY ITEM NUMBER FOR EACH ITEM.
4. CHANGES IN ITEMS TO BE FURNISHED ARE NOT PERMITTED (UNLESS APPROVED BY THE ISSUING AGENCY PRIOR TO DELIVERY). PRIOR APPROVAL MUST ALSO BE OBTAINED BEFORE DISTRIBUTORS CAN BE ADDED OR DELETED.
5. IF A DISTRIBUTOR LIST WAS SUBMITTED, CONTRACTOR MUST SEND COPIES OF THIS AWARD TO EACH DISTRIBUTOR.
6. QUANTITIES LISTED ARE ESTIMATED AND NO QUANTITIES ARE GUARANTEED (UNLESS "COMMITTED VOLUME" IS SPECIFICALLY STATED). CONTRACTOR MUST SUPPLY ACTUAL REQUIREMENTS ORDERED AT THE CONTRACT PRICE AWARDED.
7. COMPLIANCE WITH CIVIL RIGHTS LAWS.

THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS OF THE FOLLOWING AS APPLICABLE: TITLE IV AND TITLE VII OF THE CIVIL RIGHTS ACT OF 1964, AS AMENDED BY THE EQUAL OPPORTUNITY ACT OF 1972, FEDERAL EXECUTIVE ORDER 11246, THE FEDERAL REHABILITATION ACT OF 1973, AS AMENDED, THE VIETNAM ERA VETERAN'S READJUSTMENT ASSISTANCE ACT OF 1974, TITLE IX OF THE EDUCATION AMENDMENTS OF 1972, THE AGE ACT OF 1975, AND CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT OF 1990. CONTRACTOR AGREES TO NOT TO DISCRIMINATE IN ITS EMPLOYMENT PRACTICES, AND WILL RENDER SERVICES UNDER THIS AGREEMENT AND ANY CONTRACT ENTERED INTO AS A RESULT OF THIS AGREEMENT, WITHOUT REGARD TO RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, VETERAN STATUS, POLITICAL AFFILIATION, OR DISABILITIES. ANY ACT OF DISCRIMINATION COMMITTED BY CONTRACTOR OR FAILURE TO COMPLY WITH THESE STATUTORY OBLIGATIONS WHEN APPLICABLE SHALL BE GROUNDS FOR TERMINATION OF THIS AGREEMENT AND ANY CONTRACT ENTERED INTO AS A RESULT OF THIS AGREEMENT.

8. IN ACCORDANCE WITH LA R.S. 39:1602.1, FOR ANY CONTRACTS WITH A VALUE OF \$100,000 OR MORE AND FOR ANY VENDOR WITH 5 OR MORE EMPLOYEES, THE VENDOR CERTIFIES THAT IT IS NOT ENGAGING IN A BOYCOTT OF ISRAEL AND IT WILL, FOR THE DURATION OF ITS CONTRACTUAL OBLIGATIONS, REFRAIN FROM A BOYCOTT OF ISRAEL.

#### 9. CONTRACT CANCELLATION

THE STATE OF LOUISIANA HAS THE RIGHT TO TERMINATE THE CONTRACT IMMEDIATELY FOR ANY OF THE FOLLOWING REASONS: (A) MISREPRESENTATION BY THE CONTRACTOR; (B) CONTRACTOR'S FRAUD, COLLUSION, CONSPIRACY OR OTHER UNLAWFUL MEANS OF OBTAINING ANY CONTRACT WITH THE STATE OF LOUISIANA; (C) CONFLICT OF CONTRACT PROVISIONS WITH CONSTITUTIONAL OR STATUTORY PROVISIONS OF STATE OR FEDERAL LAW; (D) ABUSIVE OR BELLIGERENT CONDUCT BY CONTRACTOR TOWARDS AN EMPLOYEE OR AGENT OF THE STATE; (E) CONTRACTOR'S INTENTIONAL VIOLATION OF THE PROCUREMENT CODE (LA. R.S. 39:1551 ET SEQ.) AND ITS CORRESPONDING REGULATIONS; OR, (F) ANY LISTED REASON FOR DEBARMENT UNDER LA. R.S. 39:1672.

THE STATE OF LOUISIANA MAY TERMINATE THE CONTRACT FOR CONVENIENCE AT ANY TIME (1) BY GIVING THIRTY (30) DAYS WRITTEN NOTICE TO THE CONTRACTOR OF SUCH TERMINATION: OR (2) BY NEGOTIATING WITH THE CONTRACTOR AN EFFECTIVE DATE. THE STATE SHALL PAY CONTRACTOR FOR, IF APPLICABLE: (A) DELIVERABLES IN PROGRESS; (B) THE PERCENTAGE THAT HAS BEEN COMPLETED SATISFACTORILY; AND, (C) FOR TRANSACTION-BASED SERVICES UP

TO THE DATE OF TERMINATION, TO THE EXTENT WORK HAS BEEN PERFORMED SATISFACTORILY.

THE STATE OF LOUISIANA HAS THE RIGHT TO TERMINATE THE CONTRACT FOR CAUSE BY GIVING THIRTY (30) DAYS WRITTEN NOTICE TO THE CONTRACTOR OF SUCH TERMINATION FOR ANY OF THE FOLLOWING NON-EXCLUSIVE REASONS: (A) FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE CONTRACT; (B) FAILURE OF THE PRODUCT OR SERVICE TO MEET SPECIFICATIONS, CONFORM TO SAMPLE QUALITY OR TO BE DELIVERED IN GOOD CONDITION; OR, (C) ANY OTHER BREACH OF CONTRACT.

## Attachment A – Special Terms and Conditions – Pages 1-6

**Vendor's Forms:**

The purchase order is the only binding document to be issued against the contract. Signing of vendor's forms is not allowed.

**Substitutes:**

Only brands and numbers stated in the contract are approved for delivery and any substitution must receive prior written approval of the Office of State Procurement.

**Price Reductions:**

Whenever there is a reduction in price, which is lower than the contract price, offered to similarly situated customers contracting for the same period and under the same terms and conditions, said reduction must be presented directly to the Office of State Procurement. No price reduction on a statewide contract may be offered to an agency unless that reduction is offered to all agencies.

**Payment:**

Payment will be made on the basis of unit price as listed in the contract; such price and payment will constitute full compensation for furnishing and delivering the contract commodities. In no case will the state agency refuse to make partial payments to the Contractor although all items have not been delivered. This payment in no way relieves the contractor of his responsibility to effect shipment of the balance of the order. Payment will be to vendor and address as shown on order.

**Invoices:**

Invoices will be submitted by the contractor to the using agency and the invoice shall refer to the delivery ticket number, delivery date, purchase order number, quantity, unit price, and delivery point. A separate invoice for each order delivered and accepted shall be submitted by the Contractor in duplicate directly to the accounting department of the using agency. Invoices shall show the amount of any cash discount and shall be submitted on the contractor's own invoice form.

**Contract Revisions:**

Requests for revisions to the contract must be addressed to the Office of State Procurement and shall refer to the contract item number with justification of the request. Distributor vendor changes, price reductions and justifiable item deletions may be considered during the contract period. New item additions may be considered only when the Office of State Procurement has determined additions will be of substantial benefit to the State and will justify the time, effort and cost required to make such addition.

Contractor must immediately notify the Office of State Procurement when any dealer on the contract is terminated, relocated or added. All orders placed with dealers prior to receipt of such notification by the Office of State Procurement must be honored. Revisions will become effective only upon approval by the Office of State Procurement.

**Price Escalation:**

Vehicle and option pricing may be negotiated on an annual basis only upon the manufacturer's order cutoff date. Price adjustments shall only be permitted for changes in the contractor's cost of materials or services. Contractor must submit a written request for a price adjustment to the Office of State Procurement no later than thirty (30) calendar days following the manufacturer's model year order cutoff date. No adjustments shall be effective until approved in writing by the Office of State Procurement. The State reserves the right to accept, reject, or negotiate the proposed price adjustment.

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The Producer Price Index (PPI) series WPU14110131 and/or WPU 14110571, published by the Bureau of Labor Statistics, United States Department of Labor will be used as a guide in reviewing any price adjustments.

The contractor shall document the amount of any general change in the price of materials. Documentation shall be supplied with the contractor's request for increase which will: (1) verify that the requested price increase is general in scope and not applicable just to the State of Louisiana; and (2) verify the amount or percentage of increase which is being passed on to the contractor by the vehicle manufacturer.

In the event of a price decrease in the contractor's list price, the State shall be notified immediately. All such price reductions shall be effective immediately upon notification to the State.

**Quantities:**

This is an open-ended requirements contract. The Contractor must supply at contract prices actual requirements as ordered.

**Orders:**

The Office of State Procurement shall issue contract purchase orders for the items required, as and when needed. Political subdivisions of the State and Quasi Agencies who have been authorized to purchase from contracts made by the Office of State Procurement, are to issue their regular purchase orders directly to the supplier, making reference to the contract and item number.

**Cooperative Purchase:**

As described below, Political Subdivisions of the State, Quasi State Agencies, External Procurement Units, and Agencies of the United States Government are to be authorized (potential) users of this contract, subject to the pricing and terms set forth in the contract.

- Political Subdivisions of the State include, but are not limited to, parish governments, municipal governments, school districts, human service districts, local governments and public utilities.
- Quasi State Agencies include, but are not limited to, non-profit or for-profit organizations created by the State of Louisiana or any political subdivision or agency thereof, or any special district or authority, or unit of local government, to perform a public purpose.
- External Procurement Units include, but are not limited to, buying organizations not located in the State of Louisiana, which, if located in the State, would qualify as a public procurement unit.

The current list of approved cooperating purchasing entities (including political subdivisions, quasi state agencies and external procurement units) is maintained and regularly updated on the OSP website at: <http://www.doa.la.gov/dao/osp/agency-resources/osp-purchasing/approved-quasi-units/> and may be used as a reference.

Contractor may prospectively choose to partially or entirely 'opt-out' of accommodating cooperative purchasing for such contract(s) by sending formal written notification of same to the Office of State Procurement. This notification should clearly specify which individual type(s) of cooperative purchasing entities the contractor is choosing to not allow to participate in contract cooperative

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purchasing. Any purchase orders received by the contract-holder from cooperative purchasing entities prior to the contract-holder’s opt-out notification to OSP must be honored in accordance with the contract.

**CDBG/EEOC Compliance Rider**

Contractor certifies that he agrees to adhere to the mandates dictated by section 3 of the Housing and Urban Development Act of 1968 as amended and section 109 of the Housing and Community Development Act of 1974.

**Administrative Fee or Rebate:**

The State shall be due a minimum 0.35 % administrative fee or rebate of each vehicle’s price as ordered, (base vehicle price plus the price of any added options) to be payable to the State of Louisiana, Office of State Procurement (OSP) in exchange for the management and facilitation of this contract. The calculation of the administrative fee or rebate includes any entity receiving contract pricing resulting from this contract. The administrative fee or rebate shall be submitted quarterly and shall be based on the total net (gross sales minus returns, credits and deductions) sales made to entities located in the State of Louisiana under the contract. Initiation and submission of the administrative fee or rebate to OSP is the responsibility of the Contractor without prompting or notification by the State Procurement Analyst (SPA). If these administrative fees or rebates are not submitted in a timely manner, OSP shall have the right to terminate the contract.

The check is to be made payable: Louisiana DOA - Office of State Procurement. The check is to be mailed or send through courier service to the following address: Office of State Procurement, Attn: OSP Receivables Specialist, 1201 North 3<sup>rd</sup> Street, Claiborne Building - Suite 2-160, Baton Rouge, LA 70802. The calculation of the administrative fee or rebate shall begin immediately upon execution of the contract and payment shall be made in accordance with the following schedule:

<u>Quarter</u>	<u>Payment Period</u>	<u>Payment Due Date</u>
First Quarter	July 1 through September 30	October 31
Second Quarter	October 1 through December 31	January 31
Third Quarter	January 1 through March 31	April 30
Fourth Quarter	April 1 through June 30	July 31

**NOTE: CONTRACTOR SHALL INDICATE THE STATE CONTRACT NUMBER ON THE REMITTANCE. WHEN SUBMITTING ONE (1) REMITTANCE FOR MORE THAN ONE (1) CONTRACT, CONTRACTOR SHALL INDICATE ALL STATE CONTRACT NUMBERS AND THE AMOUNT FOR EACH.**

**Contract Usage Reports:**

The Contractor shall submit detailed contract usage reports quarterly to the State Procurement Analyst (SPA) for the contract in accordance with the below schedule. Initiation and submission of the quarterly reports to the SPA is the responsibility of the Contractor without prompting or notification by the SPA. If these reports are not submitted in a timely manner, the Office of State Procurement (OSP) shall have the right to terminate the contract.

The specific usage report content, scope, and format requirements are available on the OSP website under Vendor Resources/Vendor Forms: <http://www.doa.la.gov/doa/osp/vendor-resources/>

In addition, the person’s name who compiled the report and their contact information shall be

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provided. OSP reserves the right to request copies of any purchase orders issued against the contract.

The usage reports shall be submitted utilizing this format or an equivalent format that has been pre-approved by OSP.

Schedule for submittal of usage reports:

<u>Quarter</u>	<u>Reporting Period</u>	<u>Due Date</u>
First Quarter	July 1 through September 30	October 31
Second Quarter	October 1 through December 31	January 31
Third Quarter	January 1 through March 31	April 30
Fourth Quarter	April 1 through June 30	July 31

**Non-Exclusivity Clause:**

This agreement is non-exclusive and shall not in any way preclude state agencies from entering into similar agreements and/or arrangements with other vendors or from acquiring similar, equal, or like goods and/or services from other entities or sources.

**Louisiana Motor Vehicle Dealers License:**

Contractor must be properly licensed by the Louisiana Motor Vehicle Commission. Any questions regarding licensing required by the Motor Vehicle Commission should be directed to the Motor Vehicle Commission at (504) 838-5207, or via website: [www.lmvc.la.gov](http://www.lmvc.la.gov).

**Louisiana Safety Inspection**

Safety inspections shall be performed on each vehicle prior to delivery and a Louisiana Safety Inspection sticker properly affixed.

**Warranty**

The warranty of each unit shall include chassis, engine, drive train, modifications, etc., and shall be for a minimum of three (3) years or 36,000 miles from date the unit is put into service or within ninety (90) days after acceptance, whichever is sooner.

Any and all materials, specialties, equipment or accessories that prove defective in normal operation within the above period will be replaced or repaired by the manufacturer free of any and all cost to the vehicle operator, including material and labor.

The manufacturer will state where warranty maintenance work may be obtained in Louisiana. Warranty replacements and/or repairs will be furnished promptly by the Contractor.

Belts, brake pads, filters, tires, fluids, light bulbs, etc., will not be included in the warranty (normal everyday wear and tear items).

Contractor shall provide a minimum standard warranty on all ramps, wheelchair lifts, wheelchair and occupant restraint systems, and digital security camera systems and shall maintain this equipment during the warranty period. Contractor shall provide a list of recommended spare parts, including unit costs, upon request.

Contractor shall assume responsibility and warranty for materials and accessories used in the vehicle(s), whether the same are made by the manufacturer or purchased from an outside source. Service shall be available within a fifty (50) mile radius or reasonable location relative to the



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location of the user.

If service is required outside of the fifty (50) mile radius, Contractor shall arrange for prompt service by his repairman at the convenience of the user. If this cannot be arranged, the Contractor shall pay all expenses involved in transporting vehicle to location required for the services needed.

**Delivery**

Delivery of unit(s) covered by these specifications shall be made within two hundred (200) calendar days after vendor’s receipt of order (ARO).

Most vehicles purchased will be delivered to the Louisiana Department of Transportation and Development, 1201 Capitol Access Rd., Baton Rouge, LA 70802.

“Caravan” or drive away” deliveries straight from the manufacturer to the State will not be accepted. A pre-delivery in-service inspection shall be performed by the vendor before delivery. An inspection checklist (supplied by the State) shall be delivered with each vehicle. A name and location where this inspection will be performed should be submitted with bid. Manufacturer checklist is not acceptable. Each unit shall be delivered completely assembled and ready to operate.

Name of Inspection Location: Kent Mitchell Bus Sales  
Address of Inspection Location: 41430 East I-5 Service Road  
Hammond, LA 70403

Each vehicle shall be delivered with the following:

- a. Certificate of Origin
- b. Notarized Bill of Sale
- c. Mileage Certification Form, as required by the Louisiana Department of Public Safety
- d. Manufacturer Service Policy
- e. Owners/Operators Manual
- f. Service Manual. To include Service/Repair information as applicable for:
  - i. Chassis/understructure
  - ii. Engine
  - iii. Transmission
  - iv. Passenger Body
- g. A wiring diagram of all components installed by the vendor shall be furnished with each unit.
- h. Miscellaneous Manuals including:
  - i. Safety Manual describing operator “do’s & don’ts” for safe vehicle operation.
  - ii. Tire maintenance/Tire Care Manual

**Termination for Non-Appropriation of Funds:**

The continuation of the contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the legislature. If the legislature fails to appropriate sufficient monies to provide for the continuation of a contract or if such appropriation is reduced by the veto of the Governor or by any means provided in the Appropriations Act or Title 39 of the Louisiana Revised Statutes of 1950 to prevent the total appropriations for the year from exceeding revenues for that year or for any other lawful purpose and the effect of such reduction is to provide insufficient monies for the continuation of the contract, the contract shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated.

**Increase/Decrease:**

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The quantities listed herein are estimated to be the amount needed. In the event a greater or lesser quantity is needed, the right is reserved by the State of Louisiana to increase or decrease the amount, at the unit price stated in the bid.

**Waste Tire Fee Notice:**

The State of Louisiana, Office of State Procurement has added the cost of the waste tire fee to the bid amount upon execution of this contract in accordance with LAC 33:VII.10521 (d): \$2.25 for passenger/light truck tires including the spare, \$5.00 for medium truck tires including the spare and \$10.00 for off road vehicle tires including the spare.

<b>Vehicle</b>	<b>Number of Tires, Including Spare</b>	<b>Fee Per Tire</b>	<b>Total Waste Tire Fee</b>
5-2MV	5	\$2.25	\$11.25
8-2B	7	\$2.25	\$15.75
12B	7	\$2.25	\$15.75
12-2B	7	\$2.25	\$15.75
Low Floor 12-2B	7	\$2.25	\$15.75
Low Floor 12-2B Alt	7	\$2.25	\$15.75
12-6B	7	\$2.25	\$15.75
16-2B	7	\$2.25	\$15.75

**1. Definitions**

For purposes of clarification in this contract, the following terms shall have the described meaning.

- a. Agencies – any entity authorized to purchase on a contract resulting from this contract.
- b. State – the State of Louisiana

**2. Acronyms**

- a. ADA – Americans with Disabilities Act
- b. CCA – Cold Cranking Amps
- c. CFR – Code of Federal Regulations
- d. CNG – Compressed Natural Gas
- e. DOTD – Louisiana Department of Transportation and Development
- f. EPA – United States Environmental Protection Agency
- g. FRP - Fiber Reinforced Plastic
- h. FMVSS – Federal Motor Vehicle Safety Standards
- i. GAWR – Gross Axle Weight Rating
- j. GVWR – Gross Vehicle Weight Rating
- k. LED – Light-Emitting Diode
- l. LPG – Liquefied Petroleum Gas
- m. MOR – Manufacturer of Record
- n. MSRP – Manufacturer’s Suggested Retail Price
- o. OEM – Original Equipment Manufacturer
- p. OSP – Louisiana Office of State Procurement

**General Vehicle Specifications**

The requirements specified herein apply to all vehicles that may be purchased by the State of Louisiana, and/or Political Subdivisions of the State.

All applicable requirements and standards of the Americans with Disabilities Act, Environmental Protection Agency regulations, Federal Motor Vehicle Safety Standards, Federal Motor Carrier Safety Administration regulations and Tire and Rim Association Inc. that are in effect on the date of manufacture, shall apply. Vehicle(s) furnished to meet indicated specifications, including all equipment and accessories, shall comply with the regulations applicable to current model year vehicle: Title 49, Code of Federal Regulations, Chapter iii, Federal Highway Administration, Department of Transportation and State of Louisiana highway regulatory laws.

All vehicles shall be approved and marketed by the OEM. Full OEM literature, parts, service, technical support and warranties shall be available.

General Vehicle Specifications are not complete without general contract specifications and specific requirements listed in the Vehicle Type Specifications and Vehicle Detailed Specifications that cover the particular type vehicle desired. In the event there is a conflict between the requirements of the General Vehicle Specifications, Vehicle Type Specifications, and Vehicle Detailed Specifications, the order of preference is Vehicle Detailed Specifications > Vehicle Type Specifications > General Vehicle Specifications.

**1. Workmanship**

Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship, by either the vendor or the original manufacturer. Any defect, so noted, must be corrected by the vendor to the satisfaction of the purchasing agency.

All defect corrections must be completed to the satisfaction of the purchasing agency before invoices can be processed for payment.

Contractor installation of any portion of the equipment units must be stated prior to delivery of the vehicle. Failure to note such installations can result in rejection of the unit(s) at the time of delivery.

2. All equipment catalogued as standard for the basic vehicle, unless superseded by these specifications, to be furnished and included in the purchase price of the vehicle.
3. It is acknowledged that Federal laws, regulations, policies, and related administrative practices applicable to this contract on the date of contract execution may be modified from time to time. The Dealer agrees that the most recent Federal requirements will govern the administration of this contract. New Federal laws, regulations, policies, and administrative practices may be established after the date of contract execution and may apply to the contract to achieve compliance with the changing Federal requirement(s). Dealer may be required to upgrade, or add item(s) to the minimal specifications. The cost difference to achieve the "new" Federal requirement may be allowed at OEM's cost. No additional profit will be allowed. OEM's pricing pages must be presented to OSP to substantiate additional cost to achieve compliance with the changed Federal requirement(s).

**4. Options – Published and Unpublished**

A list of published options is included in Attachment C – Checklists and Price Sheets.

Unpublished options are options that are not listed in Attachment C. Authorized purchasers may add unpublished options, provided the sum of the unpublished options added are 20% or less of the base vehicle contract price. Unpublished options must be discounted at the same rate or better as published options and the base vehicle.

**5. Emissions**

Vehicles shall comply with all Federal and State emission requirements in effect at time of delivery.

**6. Modifications**

Unless otherwise stated, modifications to vehicles may be performed by a second-stage manufacturer.

All modifications shall comply with FMVSS 220 (School Bus Rollover Protection). Body structures shall be built as an integral unit. All joints and corners where stress concentration may occur shall be adequately reinforced to carry loads and withstand road shock. Certification of compliance with static load test should be provided with bid or within forty-eight (48) hours of request by OSP.

**7. Materials**

Materials used shall be new with quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and shall be suitable for the intended service.

**8. Standard Equipment**

- a. All vehicles offered under this contract shall be equipped with all OEM equipment advertised unless otherwise specified herein, and should be installed through OEM program.
- b. Deletions from "standard equipment" will not be accepted, unless otherwise specified.
- c. In the specifications, where standard equipment is listed, items less than standard equipment will not be accepted, unless otherwise specified.

**9. Steering**

Vehicle shall be equipped with power steering, cruise control, and tilt steering.

**10. Emergency Equipment**

The following equipment is required. All mounted equipment shall not interfere with passenger entry or exit.

- a. A 2A:10B:C fire extinguisher shall be mounted in the vehicle. The operating mechanism shall be sealed with a type of seal which will not interfere with the use of the fire extinguisher and a pressure gauge shall be mounted on the extinguisher so as to be easily read without removing the extinguisher from its mounted position. A 5 lb. fire extinguisher is acceptable. Mounting of the unit shall not interfere with passenger entry or exit. Fire extinguisher shall be mounted within arm's reach of driver.

- b. A 16-unit first aid kit and a bloodborne pathogens clean up kit shall be mounted in the vehicle. Mounting of the unit shall not interfere with passenger entry or exit.
- c. Red warning triangle reflector kit with not less than three (3) reflectors shall be mounted in the vehicle.

**11. Miscellaneous Technical Specifications**

- a. All switches shall be permanently labeled.
- b. All interior and exterior signs may be painted or decals. Vehicles will be delivered with all appropriate ADA handicap decals and signs inside and out. Vehicle shall also have two (2) reflective 9" X 17" yellow and black caution signs with 2" lettering stating:
  - i. CAUTION! Vehicle makes sudden and frequent stops.
  - ii. CAUTION! Vehicle stops for all Railroad Crossings.
- c. The entire unit shall be watertight and tested for any water leaking into the interior of the vehicle prior to delivery. Certification of Water Test for leaks and proof of fix shall accompany each vehicle.
- d. All vehicles shall be completely road tested prior to delivery.
- e. All vehicles shall be delivered with a minimum of ½ tank of fuel.

**12. Decals**

Decals are not required for agencies not purchasing through DOTD’s Louisiana Transit program.

The Louisiana transit decal with parish name and phone number shall be installed on both sides of vehicles for all vehicles before delivery to DOTD. See below for sizes and dimensions. Locations of decals to be determined during preproduction meetings. The colors and materials required are 3M Brand 3650-53 Cardinal Red (Louisiana); 3M Brand 7725-37 Sapphire Blue (Parish Name, Phone Number, Transit and State of Louisiana) and 3m Brand 7725-12 Black (State of Louisiana). The parish names and phone numbers will be supplied to vendor by DOTD.

Decal Sizes include:  
Minivans – 11"x 53.75"  
Buses – 18"x 87"  
Modified vans – 22.25"x 126.5"

See Examples below:



## **Special Equipment**

The following special equipment items apply to certain vehicles as indicated in the Vehicle Detail Specifications. Special equipment may be deleted by agencies not purchasing through DOTD's Louisiana Transit program.

### **1. Digital Security Camera System**

#### **a. General**

A digital camera system shall be installed. The minimum number of cameras required is listed in the detailed vehicle specifications for each vehicle type. Each camera shall have one (1) audio microphone. The location of hard drive and cameras shall be determined during pre-production meeting before any buses are built. The cameras shall provide the following views: Camera 1 – windshield camera for driver's view of the road. Camera 2 – driver and step well. Camera 3 – lift. Camera 4 – bird's eye view of the interior of the bus.

The system shall include one (1) hard drive. An additional hard drive shall be supplied. The additional hard drive will be used to minimize vehicle downtime in cases where the main hard drive is pulled for downloading. The additional hard drive shall have the same capacity and features of the main hard drive.

The system shall include all necessary hardware, licenses, and equipment needed for complete operation of the security camera system.

#### **b. Camera System**

- 1) System shall have a minimum recording capacity of thirty (30) frames per second from each camera.
- 2) Cameras shall record in color.
- 3) A minimum thirty (30) days or up to three hundred (300) hours recording time shall be available.
- 4) Recording media shall be hard drive based.
- 5) System shall be capable of swapping recording hard drive from one (1) transit vehicle to another without requiring user intervention to reformat the hard drive.
- 6) System shall be capable of programming the recording start/end times or stopping recording after vehicle has been idle for longer than a set period of time.
- 7) System shall be synchronized audio/video multi-channel video viewing from the installed video cameras and microphones.
- 8) The cameras must maximize image quality and automatically adjust through changing lighting conditions including extremely low light and night time operations using infrared illumination or approved equal.
- 9) Cameras shall be mounted in tamper resistant housing.
- 10) Digital recording unit shall power down at a user selectable time after switched power is removed. If unable to power down automatically, the unit shall tolerate having power removed suddenly with no negative effect on the recording unit, system hardware, operating system, stored date/video/audio, or on the system's ability to function normally once power is restored.
- 11) System shall include vibration resistant recording capable of handling the rigorous demands associated with public transit vehicles.
- 12) System shall time stamp recording with GPS data and time and date. System shall auto-update for daylight savings time.
- 13) System shall be capable of recording events while transit vehicle ignition is OFF for a preprogrammed time period.
- 14) System shall be capable of optional event recording such as transit vehicle speedometer.
- 15) System shall include a on or off warning light in the dashboard to notify vehicle operator that the system is active or has failed.
- 16) Must support continuous loop recording.
- 17) System shall be capable of withstanding starts/stops, shocks, and vibrations associated with public transit vehicles, as well as temperatures greater than one hundred (100) degrees Fahrenheit and less than forty (40) degrees Fahrenheit.
- 18) System shall be encased in a key-operated locking enclosure.

#### **c. Video Playback Minimum Requirements**

- 1) Captured video shall not require a specialized Personal Computer (PC) or other proprietary PC equipment to access and view recorded events.

- 2) Tamper proof recording format, recorded data shall be deemed acceptable as evidence in legal proceedings.
- 3) Captured video shall have a zoom function to allow the system user to zoom in on a particular area of the recorded video.
- 4) System shall have industry standard video format for playback on standard purchase Windows PC.
- 5) System shall have video manipulation with ability to clip segments and capture still images.
- 6) System shall have the ability to easily transfer video clips and still images to industry standard CD-ROM, USB flash memory stick or DVD formats.
- 7) System shall be capable of recording incident clips/events in a format that does not require additional software to playback on a standard PC.
- 8) Video playback from removable hard drive recording media shall take no more than sixty (60) seconds to access and view on PC.
- 9) Playback must allow watching a selected camera or cameras while listening to the mic from a different camera.

d. Wiring and Cabling

- 1) Vendor should submit wiring and cabling diagram of video/camera equipment with the bid or within seven (7) business days of request by OSP.
- 2) All connectors and sockets shall be of positive locking design and shall be equipped with gold contacts or similar other rust or oxidation inhibiting contacts.
- 3) Plug in connectors shall have soldered wiring. Connections shall be made at terminal block ends or be soldered.
- 4) Wiring shall be uniformly color coded and tagged.
- 5) The power source wires must be sized appropriately to meet specified requirements for unit start up and normal operation and should prevent unacceptable voltage drops.
- 6) Wherever there is a possibility of interference, wiring and interconnecting cables shall be properly shielded.
- 7) Video and audio cables shall be gauged to minimize signal loss.
- 8) A protective plastic or rubber grommet must be installed in every hole that provides passage for conduit or wiring to avoid chaffing or cutting of the conduit or wiring.
- 9) Conduit shall be installed and secured in all vehicles.
- 10) All wires and cabling shall be concealed in a vandal resistant manner.

e. Warranty

- 1) Vendor shall provide a minimum standard warranty on all equipment and shall maintain this equipment during the warranty period.
- 2) All vendors must provide a list of recommended spare parts, including unit costs.

## 2. Fully Automatic Interior Wheelchair Lift

- a. The complete wheelchair lift unit shall be a Braun NCL1000IB3754HB-2 or Ricon Titanium one thousand (1000) lb. lift, or approved equal, fully automatic, including folding and unfolding of the platform and shall be electric powered or electro-hydraulic powered. The lift shall be rated by the manufacturer as sufficient to lift one thousand (1000) pounds. Lift platform dimensions shall be 37" x 54". The lift shall be as close to the lift doors as practical and is not to intrude the wheelchair space.
- b. The overall depth of the lift assembly in the stored position inside the vehicle shall not exceed 18" when measured at the floor level from the lift entry doors. No component accessory to the lift shall extend more than 23".
- c. Lift and vehicle must meet all ADA requirements and FMVSS 403 and 404. Vehicle and lift will be delivered with all appropriate ADA handicap decals and signs inside and out.
- d. If the lift assembly incorporates a crossbar over the top, it shall be above the door opening.
- e. The wheelchair lift assembly shall be mounted on the right side of the vehicle and inside of the side entry

- f. towards the rear. Exterior lifts will not be accepted.
- g. All manual operations for the lift shall be on the left side. The entry for the lift shall be behind the rear axle on the passenger side of the vehicle.
- h. The lift entry shall have a clear opening height of not less than 68" from the floor of the vehicle.
- i. A positive factory installed locking device shall be installed to hold the door or doors for the lift entry in the open position. No add-on locks or rubber band type locking devices will be allowed.
- j. A down-pressure cut-off device shall be installed to stop the downward movement of the platform on contact with the ground if this mode power is activated. Jacking of the vehicle by the lift shall not be allowed.
- k. The lift platform shall stop automatically at the floor level of the vehicle for loading and unloading of wheelchair passengers. A light shall be installed inside the vehicle over the lift area.
- l. Power lift shall have provision for emergency fold out, lowering, rising, and fold-in.
- m. Vehicle shall be equipped with Intermotive brake interlock system or approved equal. The controls for the lift shall be interlocked with the vehicle emergency brakes and transmission to ensure the vehicle cannot be moved when the lift is not stowed and so the lift cannot be deployed unless the interlocks are engaged.
- n. Each lift installed shall have an occupant restraint belt system.
- o. Parts Books, Manuals, Drawings, and Training:  
The vendor shall furnish with each installed wheelchair lift assembly one (1) complete set of operating instructions, trouble-shooting guide, inspection and service guide, and detailed parts list. The vendor shall furnish with each installed wheelchair lift a complete schematic wiring diagram covering all electrical equipment and electrical circuits installed by him, complete with wiring codes.  
  
The vendor shall furnish with each installed wheelchair lift a complete schematic diagram of all hydraulic circuits installed.
- p. Lift Doors:  
  
Lift doors shall be double wheelchair lift doors with windows. Interlock switch may be installed on the hinged side of the door, on the bottom of the door, on the top of the door, or the door handle.

### 3. Wheelchair Restraints and Occupant Restraint Systems

Each wheelchair space shall be provided with a 4-point Retractable Wheelchair Securement and Occupant Restraint System. Retractor wheelchair securement system shall be a Sure-Lok System AL727S-4C Series or approved equal for L track. System must meet all ADA, State and Federal requirements and include AL700868-2, or equal, for L track. All L tracks are to be installed horizontally, including walls.

Securement system shall include retractors, occupant restraint, two (2) web cutters model # 8705, or equal, and four (4) quick straps model #FE200750, or equal.

Two (2) mesh storage containers Sure-Lok Model Number FE201145, or approved equal, shall be included and installed. Location of installation shall be determined during preproduction meeting before delivery of first vehicle.

### 4. Oxygen Holder

A GO2 model number FE201122, or equal, shall be provided.



## **Optional Powertrain**

### **1. LPG Fuel Systems**

Liquefied Petroleum Gas (LPG) fueled engines should be available for order as an option to a base model. The LPG fuel system shall include all equipment needed for a complete installation and conversion from a traditional fuel powered vehicle to a dedicated LPG fueled vehicle including, but not limited to: stainless steel fuel lines, fuel rail assembly, fuel injectors, recalibrated Powertrain Control Module (PSM), and fuel tank. The MOR for the LPG fuel system shall be authorized by the chassis OEM to install the system on the chassis used. The LPG fuel system shall be EPA approved and Altoona tested.

## **State Vehicle Classifications**

The State has developed a vehicle classification list for FTA Modified Vans and Buses. Placement on the list does not guarantee compliance with the specifications. The list below is not exhaustive. If you feel that a vehicle has been mis-classified, contact the State Procurement Analyst, Amy Gotreaux via email at [Amy.Gotreaux@la.gov](mailto:Amy.Gotreaux@la.gov).

Line 1: Honda Odyssey, Toyota Sequoia, Chrysler Pacifica, Chrysler Voyager, Dodge Grand Caravan  
Lines 2-9: Microbird, Champion, Elkhart  
Line10-11: Ford Transit

## **Vehicle Type Specifications**

Please read carefully, specifications are updated, vehicle lines added, changed and deleted each year as determined to be in the best interest of the State.

## **Modified Vehicles**

### **Mini-Van**

#### **Line 1: 5-2MV**

These specifications describe the minimum requirements for a five (5) passenger, one (1) driver modified minivan with two (2) wheelchair spaces with ramp and one (1) two-passenger flip seat. The vehicle design will allow for the copilot seat to be removed to create the additional wheelchair position.

#### **Vehicle Detail Specifications**

##### **1. Basic Vehicle**

Vehicle shall be an all-window vehicle and be made ADA compliant through a modification whereby the vehicle floor is cut from the engine firewall to the rearmost passenger seat and lowered to meet minimum ADA door opening height requirements (56"). There shall be no modification to any portion of the vehicle roof in meeting the ADA door opening requirement. A 30" usable, clear width, manual, 80-degree swing-away, fold-up mobility aid ramp is to be mounted vertically and inboard of the curbside sliding door. One (1) mobility aid position will be provided.

##### **2. Wheels and Spare tire**

Aluminum or steel disc wheels shall be required. The spare tire shall be mounted on a rack attached under the vehicle frame, or secured behind a rear seat against the rear wall. The spare tire may be compact in size. Lug wrench and jack shall be furnished with provisions for storage.

**3. Stabilizer Bar**

Vehicle Bar shall be equipped with a stabilizer bar on the rear axle.

**4. Electrical System**

Vehicle shall have a 12 volt electrical system with a standard manufacturer OEM alternator of not less than 160 amps and battery with a minimum of 600 CCA. All electrical wiring shall be automotive stranded copper, of sufficient gauge to handle the load, color coded to match OEM. All harnesses that are modified or added to the vehicle will be secured to the frame/body at a maximum of two (2) feet intervals with insulated clamps. All exposed terminals and wiring shall be protected from the elements and exposed wires will be wrapped in corrosion/moisture-resistant material.

**5. Climate Control**

a. Air Conditioner

Shall have a factory installed front air conditioner and shall have a factory or second stage manufacture installed auxiliary rear air conditioner. All controls for both air conditioners shall be located in the driver's compartment. The rear air conditioner shall have a molded cover, covering all hoses, drains, and electrical wiring. The air conditioners should have a combined rating of approximately 29,000 B.T.U.'s.

b. Heater

Each vehicle shall have a factory installed, hot-water type, combination fresh air and/or recirculating type heating system. Heating system shall incorporate windshield defrosters. All controls for the heating system shall be located in the driver's compartment. Combustion heaters will not be allowed.

**6. Body Structure**

a. Doors and Side Doors

Conversion shall provide a minimum clearance of 60" at the vehicle center of the interior roof. Conversion of vehicle shall require the construction that maintain OEM structural equivalent. All metal components that are added shall be welded by qualified operators and made corrosion resistant by primer application or stainless steel. Vehicle shall have the front OEM driver and passenger doors; one (1) manual left side rear door (extended to roof level), and one (1) manual right side mobility aid accessible door. The manual left side sliding door shall be OEM and extended to floor level to provide a minimum entry height of 56". The manual right side mobility aid accessible entry door shall offer a minimum opening height of 56", a minimum usable width of 32 1/2", and approximately 12" floor to ground height. The doors shall be capable of opening from inside of the vehicle. Door extensions shall be constructed of stainless steel or aluminum. Driver's door shall be lockable by key from exterior. All access doors shall have power locks; all door locks shall be keyed alike. The rear cargo door shall be provided with a quick release, manual override for opening the door from inside that is capable of opening the door even if the door is locked. The vehicle override device shall be spring loaded and mounted on the inside of the rear door to prevent accidental release. A decal shall be installed showing instruction.

b. Floors

Floor shall be level from front to back and from side to side, except in the wheel housing, toe board, and driver's seat platform area. The lower floor assembly shall be constructed of aluminized steel. Frame rails shall be made of formed channels and be reinforced with formed channel cross ribs. The floor shall be lower from the front firewall to just before the rear axle and the width of the floor shall extend from side doorsill to side doorsill.

Floor to roof interior height conversion shall provide a minimum clearance of 60" at the vehicle center on the interior roof. Exterior lower body panels shall be added to vehicle on both the driver and passenger sides of the vehicles. Panels to be constructed of formed plastic or fiberglass and painted to match the exterior color of the vehicle.

The floor overlay shall have a minimum of 3/8" marine grade plywood. The whole floor including aisle, entrance, and step tread areas shall be covered with Altro Transflor Meta 2.2 mm Genome (TFM2202), Gerflor or approved equal. All seams are to be heat welded to provide one piece, waterproof covering (Approximately 60" X 60").

Extruded aluminum trim molding shall cover the aisle joints.

- c. Interior Paneling  
All interior walls shall be paneled, including doors with a durable easily cleanable material. All interior panels shall meet FMVSS 302 and shall be OEM or OEM equivalent.
- d. Windows  
Vehicle shall be an all-window unit. Side passenger windows shall be provided throughout the passenger compartment. Windows in the passenger compartment shall be original equipment manufactured with the maximum number of windows capable of opening for make and model bid. All windows shall be factory sunscreen glass.
- e. Insulation  
Shall be installed in all sidewalls and roof with an R-value minimum of R-6.
- f. Paint and Trim  
The exterior color of the vehicle shall be white.
- g. Line Protection  
All metal and rubber fluid lines beneath vehicle that are altered or exposed as a result of floor modifications shall be secure and reasonably protected from road damage. Any fuel and brake line modifications/alterations must be OEM equivalent material and workmanship.

## 7. Seating

- a. The driver seat shall be equipped with a reclining, bucket-type, high back seat with adjustable height utilizing a six (6) way power slide motor. A single folding, right side mounted armrest shall be installed.
- b. Passenger seats shall be spring suspension type. School bus, plywood or board seats will not be accepted.
- c. Driver and all passenger seats are to be covered with vinyl meeting Docket-90 compliance and match. Vinyl seating materials should include a five (5) year warranty.
- d. All seats shall be forward-facing and shall be equipped with FMVSS approved seat belts including retractors.
- e. Seating that prohibits the use of the side door(s) from being utilized as emergency exit will be considered unacceptable. An aisle width of not less than 15" shall be maintained as an access to side door(s).
- f. All seats and restraints in the vehicle as specified must comply with FMVSS standards.
- g. Front passenger seat shall be OEM, matching driver seat. The rear passenger seat shall be OEM rear bench seat, capable of accommodating three (3) passengers, and is to be covered with transportation grade vinyl to match driver and front passenger seat. Seat shall be lowered to accommodate the lower floor.
- h. A Freedman 3 Step Foldaway Passenger flip seat, or approved equal, shall be installed for middle seat position. This fold-a-way seat shall be installed on the left side of the vehicle (see floorplan attached). This seat shall have lap retractor seat belts.
- i. The aisle width between seats shall be no less than fifteen (15) inches.
- j. Restraints shall be furnished for all passengers and be automatic retractor. Securement devices shall meet all State and Federal Standards. Two (2) 18" seatbelt extensions must be supplied.

## 8. Mobility Aid Ramp

The vehicle shall be equipped with a Braun powered in floor ramp with a minimum weight capacity of one thousand (1,000) lbs. or equal, or a manually operated, 80-degree swing-away mobility access ramp which stows vertically and 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 fifteen (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. The ramp surface shall be continuous and made skid resistant through powder coating. 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 have a rated capacity of six hundred (600) lbs., with a safety factor of at least three (3) based on the ultimate strength of the material. Each side of the ramp shall have protective barriers at least two (2) inches high to prevent mobility aids from rolling off of the ramp edge.

The ramp doors shall be interlocked with the vehicle transmission to ensure the vehicle cannot be moved when the ramp is deployed.

#### **9. Mobility Aid/Occupant Restraint Systems**

Each vehicle shall be equipped with one (1) Q-Straint Q-8100-A1-SC, or equal, forward facing mobility aid securement and occupant restraint system. The system shall utilize flanged "L" continuous track, capable of securing a variety of common mobility aid designs and accommodate a wide range of occupant sizes. All attachment hardware and anchorages shall meet or exceed the 30 mph/20 Impact Test criteria per SAE J2249, 36 CFR Part 1192 and CFR Part 38, and all applicable Federal Motor Vehicle Safety Standards, as amended. Each securement position system shall consist of four (4) adjustable securement strap assemblies that attach to the structural frame of the mobility aid at four (4) separate points and anchor into the track on the vehicle floor at four (4) separate points. Each securement system shall have a corresponding occupant restraint system. The occupant restraint system shall consist of an adjustable lap and a shoulder belt and shall meet all applicable Federal Motor Vehicle Safety Standards. Securement system shall include retractors, occupant restraint, and bases. One (1) Q'Straint Q5-7590 belt cutter, or approved equal, shall be supplied with vehicle. One (1) mesh storage container Q'Straint Q5-8522, or approved equal, shall be included and installed. Location of installation shall be determined during preproduction meeting before delivery of first vehicle.

#### **10. Additional Equipment**

- a. An interior operated hood release is required.
- b. Sufficient interior lighting for night operation to illuminate the driver and passenger entry area and interior aisle.
- c. The entire underside of the body and chassis including floor member, side panels below floor level, and fender wells shall be coated with a non-flammable material specifically designed for undercoating and comply with current Federal and State Standards. All openings in the floorboards and firewall shall be sealed.
- d. A color REI rear view camera, Rosco Smart Mirror, or approved equal shall be mounted on the rear of the bus. The monitor for the camera shall be integrated into the rearview mirror. Vendor to submit with their bid rear view camera system to be installed. An OEM installed backup dash camera is acceptable.
- e. Vehicle shall have back up alarm installed.
- f. Fire resistant blanket to be included.

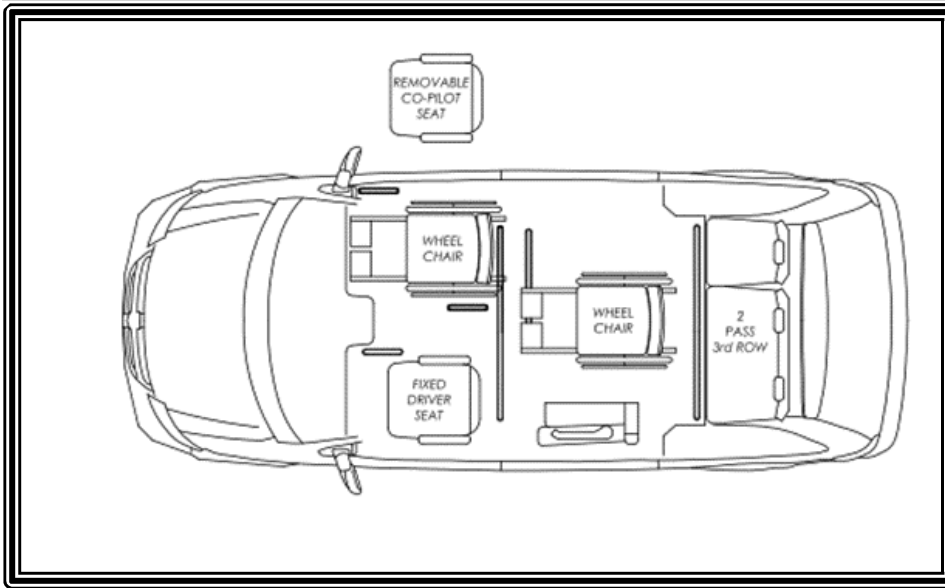
#### **Special Equipment Needed**

1. **Digital Security Camera System** – two (2) cameras
2. **Oxygen Holder**

#### **Optional Powertrain**

1. **LPG Fuel System**, if available

**Vehicle Sketches**



## **Small Cutaway** **Vehicle Type Specifications**

The following specifications apply to lines 2-7.

### **1. Engine**

- a. Engine shall have an Intermotive products gateway fast idle with intelligent lift interlock system, or equal, installed. The system shall activate when the battery voltage drops below 12.5 volts or when the OEM or rear air conditioning compressors are engaged. All controls for this system shall be installed on the vehicle dash in reach of the driver.
- b. Engine shall not start when not in park.

### **2. Transmission**

Vehicles shall be equipped with a minimum 6-speed, overdrive equipped automatic transmission supplied by the chassis manufacturer incorporating a torque converter.

### **3. Spare Tire and Wheel**

Spare tire and wheel to be mounted and placed in the vehicle. Lug wrench and jack are not required.

### **4. Front End Alignment**

All chassis are to be equipped with an eccentric Castor/Cambor pinch-bolt bushing kit to insure proper front end-alignment after body mounting. Standard OEM bushings will be deemed non-compliant. Front end alignment should be performed after kit installation and prior to delivery of vehicle.

### **5. Fuel Capacity**

Fuel capacity shall be thirty-five (35) gallons minimum, unless otherwise specified in the Vehicle Detail Specifications. Clearly marked fuel-type instructions shall be installed. Vehicle shall have a 12" x 12" diamond plated fuel sender plate installed.

### **6. Springs**

The front and rear springs, in combination, shall have a ground load rating equal to or exceeding the GVWR of the vehicle.

### **7. Shock Absorbers**

Vehicles shall be equipped with front and rear heavy-duty, double-acting shock absorbers of sufficient capacity to adequately stabilize the loaded vehicle.

### **8. Wiring Harness and Routing**

The wiring harness must be built to the length of vehicle. Each harness shall be as-built with the exception of optional items, but each wiring schematic must identify each optional circuit. Harness may incorporate wiring for options not selected by the end user. Schematics shall include each connector pin number and location. It shall also include symbols identifying electrical components along with location of each component. Each set of schematics shall have a legend that identifies each symbol used, including grounds.

All wiring shall be vinyl insulated to 200 degrees Fahrenheit, shall meet SAE standards, and shall be color coded or function coded at least every twelve (12) inches and permanently labeled to identify their function. Battery cables shall be 2-gauge with minimum of 0.075" wall plastic insulation. All wiring shall be of sufficient size to carry the required currents without excessive voltage drop.

Entire harness system and mating electrical components shall be plug-connected with lock tab connectors; all terminals are machine crimped; all harnesses shall be covered in high temp conduit and all exterior under body/under hood connectors are heat-sealed and weatherproof connectors.

All multi-pin connectors with twelve (12) or more conductors shall be environmentally sealed electrical connectors with a tab connector. All connectors with three (3) to twelve (12) circuits that are under the hood and/or under the vehicle shall be environmentally sealed high impact plastic connectors with pull apart locking

tabs. All connections containing one (1) to two (2) circuits shall be made with Posi-Lock connectors.

All body wiring shall be run inside the body in a protected area. All wiring shall be in a loom and secured for maximum protection. Clamps shall be rubber or plastic coated to prevent them from cutting the wiring insulation. When routing wiring under vehicle all wiring shall be encased in a loom and attached to the frame and sub-floor structure with rubber or plastic coated P-clamps every twelve (12) inches where possible and shall not be bundled with hoses. The harness shall run in straight lines as close to the chassis frame rails as possible. Any harness that goes over the rear suspension shall be encased in a conduit fixture securely fastened to the sub-floor rails or routed inside the frame rails.

A breaker box shall be located above the driver door in an abs non-conductive vacuum formed tub with a non-locking door. A microprocessor controlled printed circuit master control board shall be provided with no electrical relay type switches. Manual reset circuit breakers are required. Connection to OEM electrical system shall be accomplished through connectors supplied by the chassis manufacturer using locking mating connectors. A legend shall be provided on the circuit box door that displays circuit fusing and identification information.

A detailed schematic provided electronically (on disc, thumb drive, etc.) shall be provided with the vehicle.

## 9. Electrical System

A 12-volt, dual battery system shall be supplied with the following:

- a. Alternator shall be heavy-duty OEM 210 amp, or approved equal.
- b. RV type, solid state, battery isolator rated equal to alternator output on each leg, with a maximum voltage drop of one (1) volt.
- c. Battery number one (1) will be manufacturer's standard equipment for vehicle furnished, at least 600 CCA, mounted under the hood.
- d. Battery number two (2) to be deep cycle OEM minimum 580 CCA. Bidders must provide comparison data. This battery is to provide power for the wheelchair lift, auxiliary air conditioner, and flashing rear lights.
- e. Battery number two (2) shall be mounted in an accessible location, in a pullout tray (drop down is not acceptable) under the body, but shall not be mounted in the passenger compartment of the vehicle. The capacity and make of both the alternator and battery should be provided as part of the bid.
- f. An on/off switch for batteries to disconnect body components are to be installed. Location to be determined during pre-production meeting for all vehicles categories.

## 10. Climate Control

### a. Air Conditioner

Vehicle shall have OEM installed factory in-dash air conditioner independent of rear a/c. Vehicle shall have a separate ceiling mounted rear a/c with a three (3) fan skirt mounted tube and fin coil construction condenser. Microchannel systems are not desired. Rear a/c shall be ACT, ACC, Transair, or approved equal. Total rear a/c output shall be a minimum of 67,000 BTUs for eight (8) and twelve (12) passenger vehicles and 76,000 BTUs for sixteen (16) and twenty-four (24) passenger vehicles, not including front a/c. Air conditioning system must include two (2) compressors, one (1) for the front air and one (1) for the rear air.

All controls for both air conditioners shall be located in the driver's compartment and clearly marked for driver use. The interior rear evaporator shall have a molded cover, covering all hoses, drains and electrical wiring, with an accessible a/c filter for easy cleaning. A/C systems to utilize the air conditioning industry's "e-z clip" type a/c hose system consisting of type E hoses, fittings and clamps. Type D hoses will not be considered as an approved equal. All a/c components' brochures, serial numbers, warranty information, service centers, and date of installation shall accompany delivery of vehicle.

- b. Heater  
Each vehicle shall have a factory front heater and a rear factory installed hot-water type, type heating system with a minimum rating of 35,000 BTUs. Heating system shall incorporate windshield defrosters. All controls for the heating system shall be located in the driver's compartment and clearly marked for driver use.

Heaters are to be individually controlled by three (3) position switches: low, high, and off, and be controlled from the switch panel. Provisions shall be made for windshield defrosting adjustable output within reach of the driver. Rear heater shall be installed as far back as possible and is not to interfere with passenger. An access door is to be installed in the floor or in the side panel on all vehicles with a rear heater shut off valve and so labeled. All heater components' brochures, serial numbers, warranty information and date of installation shall accompany delivery of the vehicle.

## 11. Body Structure

- a. Roof and Sidewalls  
Interior aisle shall provide not less than 75 inches of headroom in the entire vehicle. The vehicle body structure must incorporate an integral, fixture-welded steel body framing for floor, front, rear, sidewalls, and roof. All cavities and voids present in the structure framework of the body sidewall and rear wall assemblies are to be completely filled with 1.063" thick high density beadboard insulation. The roof sub-assembly shall be completely filled with 1.75" thick high-density beadboard insulation. The exterior walls and roof shall be of either aluminum or fiberglass to preclude corrosion. The exterior roof panel shall be comprised of a single seamless panel to preclude leakage. The interior walls and ceilings shall be comprised of .040" Fiber-Reinforced-Plastic (FRP), gloss light gray in color (a vinyl coated substrate will not be considered). Vehicle exterior and interior roof and sidewall components shall be manufactured with skin vacuum lamination or structural adhesive to insure uniformity in the strength and bonding of all walls and roof surfaces. The body shall incorporate a steel structure as the primary load-bearing structure. All panels shall be installed so that they shed water, that is, the leading panel shall be lapped over the following panel and in no case shall the sealing of the panels be dependent on caulking alone. Interior to be a fiberglass type material that is easily cleaned. Carpet or cloth not accepted on interior walls or ceiling. A one-piece metal or fiberglass roof will be allowed.
- b. Entry Door  
The passenger entry door shall not be less than 78 inches high and minimum horizontal opening of 26 inches. Must have locking and unlocking capability from inside of vehicle. Entry door to be electric or manually operated.
- c. Entry Steps  
The step well shall be integral with the body and fabricated from heavy-duty welded steel or aluminum with adequate reinforcement. Individual risers shall not exceed 8.5 inches in height with a 0.5 inch variance. The bottom step shall not exceed twelve (12) inches from the ground. Cover for step treads and risers shall be all one piece, no seams. Each step will be covered with the same material as the passenger floor and have a band of white or yellow nosing across the entire width of the steps.
- d. Floors and Interior Paneling  
Substructure shall consist of prime commercial quality steel. A complete set of schematics showing dimensions of floor and steel being used should be submitted with bid. Floor shall be level from front to back and from side to side, except in the wheel housing, toe board, and driver's seat platform area. The floor overlay shall have a minimum of 5/8" marine plywood, grade B-C or better, or composite subfloor. The whole floor including aisle, entrance, and step tread areas shall be covered with Altro Transflor Chroma 2.2 mm Cayman (TFCR2261), or equal. Floor thickness is all flooring, not a combination of flooring and backing. Flooring to be a blended (not top coated) product that includes Quartz for slip resistance and durability. All seams are to be heat welded to provide one (1) piece, waterproof covering. All interior walls shall be paneled, including doors with a durable, non-fabric, easily cleanable material. Carpet, cloth or a vinyl covered substrate are not acceptable on interior walls or ceiling, except in the cab area.



- e. Door Opener  
The entry door shall be two-leaf, outward opening type, manually operated, and controlled from the driver's seat.
- f. Windshield, Windows, and Rear Emergency Door  
The windshield is to be a one-piece design provided by the chassis manufacturer. Windshield shall be laminated tinted safety glass. The driver's window shall be capable of opening, and be either the sliding or the roll-down type. The driver's window shall be tempered safety glass. The side passenger windows shall be transit-type, as opposed to the school bus type. It is desired to maintain a transit-type appearance, and school bus windows will not be accepted. Passenger windows must be capable of opening to ensure ventilation. Windows shall be a OEM standard with an upper T-sliding design. One "half window" will be acceptable on each side where engineering requires. One hinged emergency escape window must be provided on each side of the vehicle.
  - 1) Emergency windows must be clearly labeled and operating instructions must be clearly visible at each escape window. All windows shall be designed and installed in compliance with FMVSS 217. All emergency exits shall comply with F.A.C. 14-90. All passenger windows must be safety glass. Windows are to be OEM dark tinted (20% Light Transmission value minimum). All passenger windows shall be installed in black powdered or anodized aluminum frames, or the equivalent.
  - 2) Each emergency exit shall be identified with a 12-volt red LED lamp assembly, with a 10,000 hour life bulb, wired to the vehicle ignition circuit. This system, along with window signage, shall provide passengers with a clear identification of exit routes. Next to, or immediately below, each LED light fixture shall be a decal, one (1) inch Helvetica Medium white letters on red background or red letters on white background, stating "Emergency Exit".
  - 3) A rear emergency door with upper and lower windows, and an interior lock to prevent entry from the outside shall be installed in the vehicle. The emergency door shall be equipped with an audible alarm/ visual light if locked or open while the vehicle is running. The lock shall prevent starting of the engine when engaged, and trigger an audible buzzer and visual light. Door shall have a locking mechanism (rear door prop) to hold open the door when in use.
- g. Windshield Wipers  
Heavy-duty electric two-speed windshield wipers controlled by a variable speed (intermittent) switch shall be furnished.
- h. Insulation  
Shall be installed in all sidewalls and roof. Insulation shall be R-6 value or greater.
- i. Modesty Panels  
An industry standard modesty panel shall be installed on the left side of the passenger entry area with stanchion. The supports of the modesty panel shall be fully padded on 1 ¼" stainless steel.
- j. Passenger Assist Stanchion and Ceiling Grab Rails  
All stanchions shall be a minimum 1 ¼" outside diameter stainless steel tubing and shall be padded. A stanchion shall also be installed to the right behind driver with modesty panel.
  - 1) A grab rail shall be installed on both sides of entry door parallel to the steps to provide easy entry and exit for the passengers and must meet ADA.
  - 2) All stanchions shall be mounted securely to the frame of the vehicle. The strength of the stanchions shall be sufficient to withstand the force exerted by a 350-pound person using the stanchion to help pull him up and into the vehicle from the ground level.
  - 3) The ceiling grab rail shall be a minimum of 1 ¼" outside diameter stainless steel tubing. All stanchions and grab rails are to be attached to structural posts or cross members of the roof to insure maximum strength.

- k. Paint and Trim  
The exterior color of the vehicle shall be white.

## 12. Seating

- a. Passenger
  - 1) All seats shall be forward facing including wheelchair.
  - 2) The seating floor plans shall be as shown on sketch.
  - 3)
  - 4) All seats shall have no less than nine (9) inches between the front of the cushion and the back of the next forward seat.
  - 5) Single passenger seats shall not be less than 17" wide. The two- passenger seats shall not be less than 35" wide. All seats shall have a cushion depth of no less than 16". All seats shall be Freedman GO ES three (3) point seats or approved equal. All seats shall be equipped with Sanitized® protection molded grab rails. Foam padded grab rails are not acceptable.
  - 6) The aisle width between seats shall be no less than 15".
  - 7) All seats shall be mounted on seat tracks system welded to wall and floor body structure. Seat track must meet FMVSS 207 and a copy of the latest certification should be submitted with bid.
  - 8) All Seats shall be upholstered with heavy duty vinyl material, minimum of 35-ounce per linear yard, and meet or exceed all FMVSS and FTA Docket 90 requirements. All seats shall be Freedman GO ES three (3) point seats with CRS-225 hardware, or approved equal. These seats shall be FMVSS 225 compliant to attach removable child seats. Seat foam padding shall be neoprene compound cushioning (CR Safeguard XL Fire-resistant Cushioning or equal) or approved Docket-90 covering.
  - 9) Each passenger seat position shall have integrated three (3) point seat belts, or approved equal. The seat belts must meet all applicable FMVSS Standards. Two (2) 18" seatbelt extensions must be supplied. If the manufacturer does not offer 18" seatbelt extensions, the longest extensions offered by the manufacturer shall be supplied.
- b. Driver
  - 1) The driver seat shall be equipped with a reclining, bucket-type, high back seat with adjustable height utilizing a six (6) way power slide motor. Seat covering to be the same quality, color and material as passenger seats. A single folding, right side mounted armrest shall be installed.

## 13. Additional Equipment

- a. A 10" long,  $\pm 1"$ , full view panoramic interior rearview mirror shall be installed in the center of the top, just above the windshield, and be fully adjustable. Exterior rearview mirrors are to be Rosco mirrors or approved equal. An additional crossover mirror shall be installed streetside on the front of the vehicle as far forward as vehicle design permits. An adhesive bus guard lens (commonly called a "fish-eye") shall be installed in the rear of the vehicle.
- b. A driver side slip resistant, heavy duty stamped aluminum running board shall be installed.
- c. Sufficient interior lighting for night operation to illuminate the driver and passenger entry area and interior aisle.
- d. Interior operated hood release.
- e. The entire underside of the body and chassis including floor members, side panels below floor level, and fender walls shall be coated with fire-resistant asphalt base, rubber base, or equivalent undercoating material. All openings in the floorboards and firewall shall be sealed.
- f. Interior engine cover (dog house) shall have drink holders and storage compartment.

- g. A rear third brake light shall be mounted directly in the center, either under or above rear window. The third brake light shall be LED and no less than 6" inches wide. All rear exterior lighting (turn signals, brake lights, and back up lights) shall be LED.
- h. Vehicle shall have back up alarm installed.
- i. Vehicle shall be equipped with a Mor/ryde rear axle suspension system or approved equal.
- j. Exhaust system for vehicle shall exit on the street side behind the rear axle and be mounted at points to the frame every twelve (12) inches. Heat shields shall be mounted between exhaust system and fuel tank.
- k. The bus must be equipped with an anti-theft system that allows the engine to idle with the key removed from the ignition and keep the shifter locked in park. The system will be activated by pressing a switch and removing the key within three (3) seconds. If the service brake is pressed while in the locked mode the horn will sound as an alarm.
- l. Vehicle shall be equipped with storage area above the front windshield. The area shall be carpeted and weather resistant. Door shall be provided with two (2) latches.
- m. Pre-trip module request has been removed.
- n. A digital, high quality LCD color monitor with three (3) cameras for left/right turn signal activation and rear vision shall be installed on the vehicle. Cameras are to be waterproof with auto-adjustment for night vision in durable housings. The color monitor shall be easily visible to the driver in its mounted position. Monitor shall be fixed to the header above the windshield and shall be tied into the steel structure.
- o. A reverse assistance system shall be installed with a minimum of four (4) rear sensors. The system will be automatically activated when the vehicle is put in reverse and will detect an object within seven (7) feet. The system will have an alarm that sounds upon object detection and a dash mounted LED panel that displays the location of the object and the distance in feet to the object.
- p. Vehicle shall have seven (7) inch red LED lights installed in the top left and right corners of the rear of the bus. If the vehicle's ignition is in the on position, and the brake is depressed, these lights will flash to indicate slowing or stopping.

## Line 2 – 8-2B

These specifications describe the minimum requirements for an eight (8) passenger, one (1) driver small cutaway vehicle with two (2) wheelchair spaces with interior wheelchair lift and 75” headroom.

### Vehicle Detail Specifications

**1. Capacity**

Shall have a chassis manufacturer’s GVWR not less than 11,500 lbs. and dual rear wheels.

**2. Engine Size**

Engine shall be a gasoline fueled V-8 or greater engine with a displacement no less than 6.1 L.

**3. Wheelbase, Length, and Interior Width**

The minimum wheelbase shall be 138”. The minimum overall vehicle length shall be 252”. The minimum interior width at seat height shall be 90”.

### Special Equipment Needed

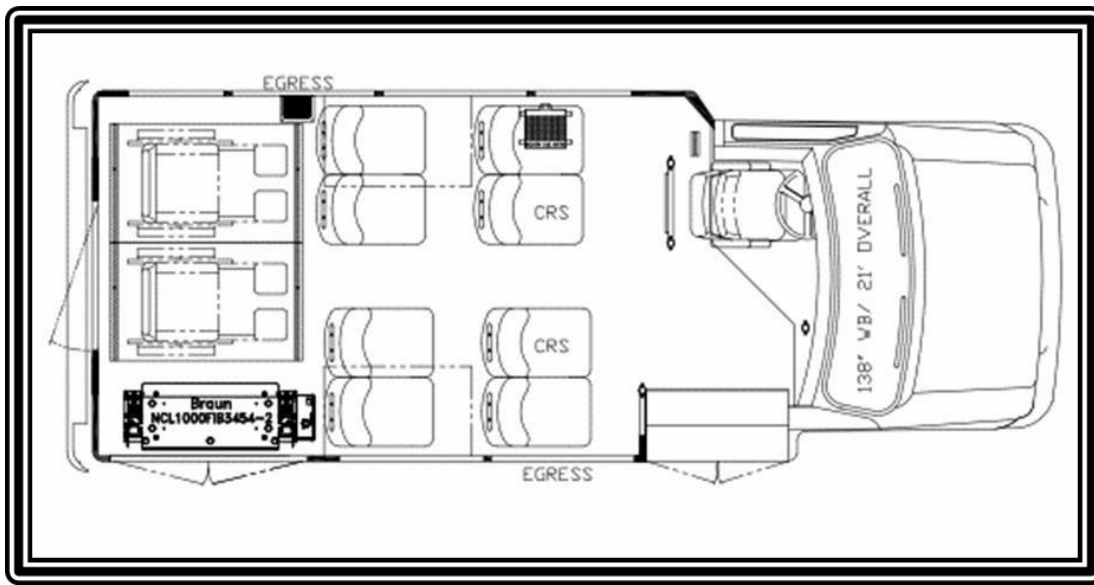
1. **Digital Security Camera System** – four (4) cameras
2. **Fully Automatic Wheelchair Lift**
3. **Wheelchair Restraints** – two (2) restraints and two (2) mesh storage containers
4. **Oxygen Holder**

### Optional Powertrain

1. **LPG Fuel**

System, if available

### Vehicle Sketch



**Line 3 – 12B**

These specifications describe the minimum requirements for a twelve (12) passenger, one (1) driver small cutaway vehicle with 75" headroom.

**Vehicle Detail Specifications**

- 1. Capacity**  
Shall have a chassis manufacturer’s GVWR not less than 11,500 lbs. and dual rear wheels.
- 2. Engine Size**  
Engine shall be a gasoline fueled V-8 or greater engine with a displacement no less than 6.1 L.
- 3. Wheelbase, Length, and Interior Width**  
The minimum wheelbase shall be 158". The minimum overall vehicle length shall be 249". The minimum interior width at seat height shall be 90".

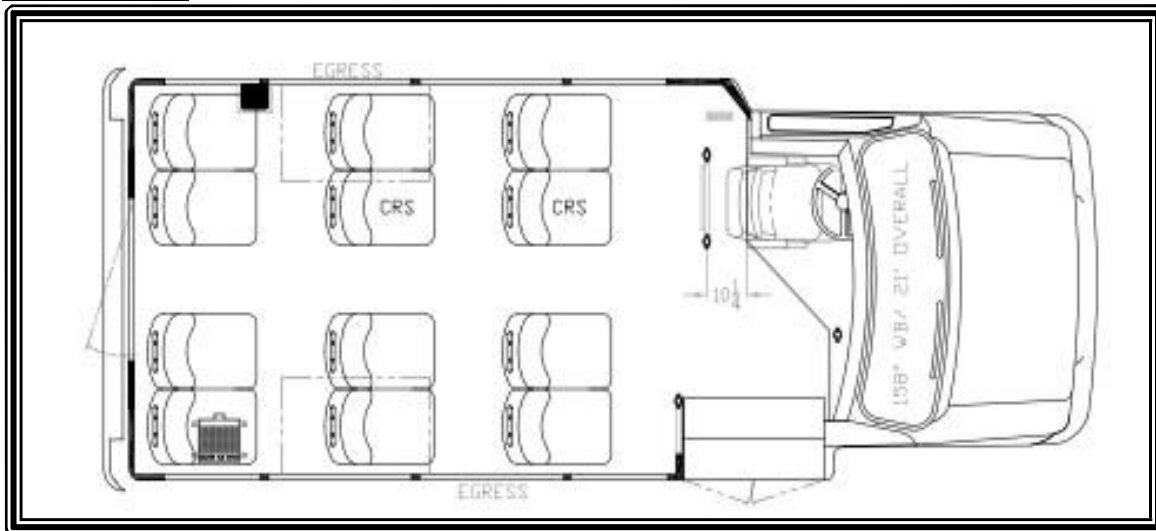
**Special Equipment Needed**

- 1. Digital Security Camera System** – four (4) cameras

**Optional Powertrain**

- 1. LPG Fuel System**, if available

**Vehicle Sketch**



**Line 4 – 12-2B**

These specifications describe the minimum requirements for a twelve (12) passenger, one (1) driver small cutaway vehicle with two (2) wheelchair spaces with interior wheelchair lift and 75” headroom.

**Vehicle Detail Specifications**

**1. Capacity**

Shall have a chassis manufacturer’s GVWR no less than 14,500 lbs. and dual rear wheels.

**2. Engine Size**

Engine shall be a gasoline fueled V-8 or greater engine with a displacement of no less than 6.8 L.

**3. Wheelbase, Length, and Interior Width**

The minimum wheelbase shall be 158”. The minimum overall vehicle length shall be 269”. The minimum interior width at seat height shall be 90”.

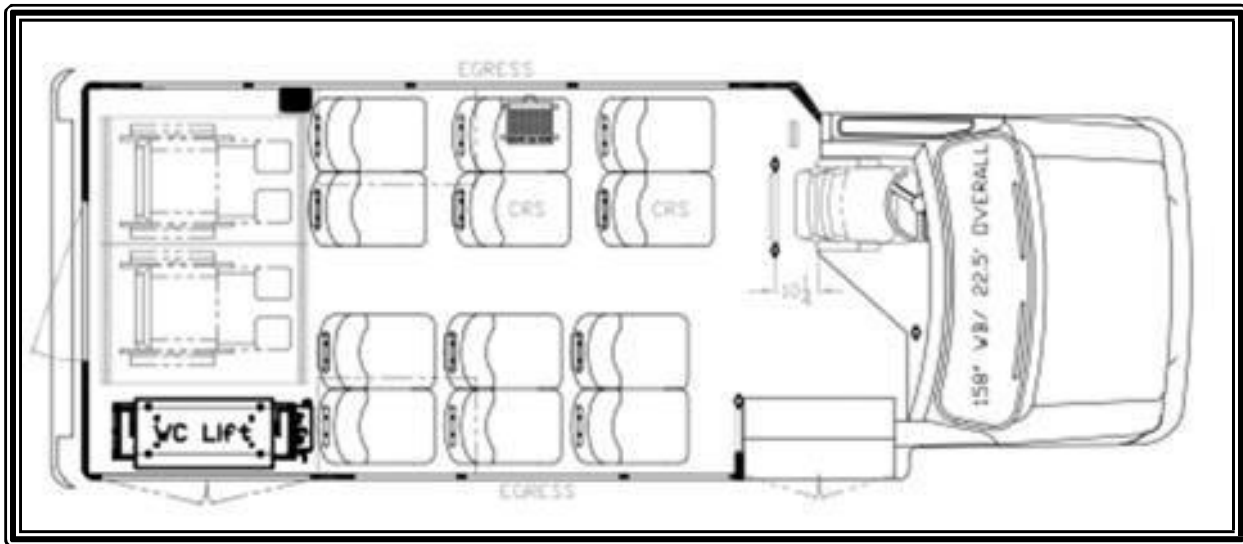
**Special Equipment Needed**

- 1. **Digital Security Camera System** – four (4) cameras
- 2. **Fully Automatic Wheelchair Lift**
- 3. **Wheelchair restraints** – two (2) restraints and two (2) mesh storage containers
- 4. **Oxygen Holder**

**Optional Powertrain**

- 1. **LPG Fuel System**, if available

**Vehicle Sketch**



## Line 5 – Low Floor 12-2B

These specifications describe the minimum requirements for a twelve (12) passenger, one (1) driver small cutaway vehicle with two (2) wheelchair spaces with interior wheelchair lift, low floor, and 72” headroom.

### Vehicle Detail Specifications

#### 1. Capacity

Shall have a chassis manufacturer’s GVWR no less than 14,200 lbs. and dual rear wheels.

#### 2. Engine Size

Engine shall be a gasoline fueled V-8 or greater engine with a displacement no less than 6.0 L.

#### 3. Wheelbase, Length, and Interior Width

The minimum wheelbase shall be 165”. The minimum overall vehicle length shall be 287”. The minimum interior width at seat height shall be 91”.

#### 4. Fuel Capacity

Vehicle shall have a minimum fuel capacity of fifty-seven (57) gallons.

#### 5. Electrical System

Battery number two (2) to be minimum 700 CCA. Vehicle shall be equipped with a rotary disconnect switch that removes 12V battery power from all bodybuilder loads while not interfering with OEM chassis electrical circuits. Disconnect switch for batteries location to be determined during pre-production meeting.

#### 6. Air Conditioning

Air Conditioning shall be a rooftop system that incorporates the condensers and evaporators. The Rooftop unit shall have a minimum cool air BTU Rating of 85,000 BTU’s. There shall also be a second compressor in addition to the OEM compressor. The secondary compressor shall be type TM-21 or approved equal.

This rooftop system shall have electronic controls that are mounted in the driver’s area. Care should be taken to ensure easy access to these controls by the driver. Vehicle shall have OEM installed factory in-dash air conditioner independent of rear a/c. The interior molded cover must cover any hoses, drains and electrical wiring, with an accessible a/c filter for easy cleaning. A/C systems to utilize the air conditioning industry’s “e-z clip” or “atco crimp clip” type a/c hose system consisting of type D hoses, fittings and clamps. All a/c components brochures, serial numbers, warranty information, service centers, and date of installation shall be received with delivery of vehicle.

#### 7. Body Structure

##### a. Roof and Sidewalls

Interior aisle shall provide not less than seventy-two (72) inches of headroom in the entire vehicle. Exterior FRP (Fiber Reinforced Plastic) Composite will be secured to the side walls with the seam being covered by a rain gutter.

##### b. Entry Door

The passenger entry door must be on a minimum twelve (12) degree angle to assist with random access for wheelchair loading and unloading. The entry door must be forward to assist driver in seeing the passenger entry. Backset entry doors that are not on a minimum twelve (12) degree angle are not desired and will not be considered as an approved equal for safety and ease of entry reasons.

##### c. Entryway

The entryway shall be integral with the body and fabricated from heavy-duty welded steel. The one (1) step entry shall not exceed twelve (12) inches from the ground.

d. Floors and Interior Paneling

Substructure shall consist of prime commercial quality steel specifically engineered in a way to protect the occupants. Sides of the sub floors shall be fourteen (14) gauge C-Channel that will overlap the 1.5" x 2.5" sixteen (16) gauge floor line tubing in the side walls. Steel sub floor structure must be isolated from the chassis by means of OEM rubber isolation mounts and bolted through these mounts to the chassis frame rails.

Floor decking shall be a 5/8" thick single piece of engineered wood with moisture barrier laminated to upper surface and moisture sealed edges. The whole floor including aisle, entrance, and step tread areas shall be covered with Altro Transflor Chroma 2.2 mm, or equal, and shall be covered up the sidewalls. Floor thickness is all flooring, not a combination of flooring and backing. Flooring to be a blended (not top coated) product that includes Quartz for slip resistance and durability. All seams are to be heat welded to provide one (1) piece, waterproof covering. The cab floor shall have the OEM insulated floor covering.

e. Door Opener

The entry door shall be two-leaf, outward opening type, electric or manually operated, and controlled from the driver's seat. The door opening shall be 35" minimum clear opening with entry assist handles. For emergency situations, a manual door release control shall be provided.

**8. Passenger Entry Ramp**

- a. The entry ramp shall be a Braun power ramp, or equal, rated at a minimum of an 800 pound capacity. The entry ramp will be designed to let wheelchair and ambulatory passengers enter the bus once the ramp is fully deployed. Steps are not allowed and all passengers shall enter by way of passenger door. Entry ramp shall be 62 inches minimum and provide a 1:5 angle when deployed to the ground. Where provided, vehicle shall be ADA Fixed Route Compliant per Americans with Disabilities Act. The ramp area shall be equipped with exterior overhead door light and LED Stepwell Lights to illuminate the entry floor/ramp platform meeting ADA specs. These lights shall activate when the ramp is deployed and turn off when the ramp is stowed.
- b. Vehicle shall be equipped with an Intermotive brake interlock system or approved equal. The controls for the lift shall be interlocked with the vehicle emergency brakes and transmission to ensure the vehicle cannot be moved when the lift is not stowed and so the lift cannot be deployed unless the interlocks are engaged. Must have an LED status display with two (2) inch red "door ajar" light.
- c. The vendor shall furnish with each installed wheelchair assembly one (1) complete set of operating instructions, trouble-shooting guide, inspection and service guide, and detailed parts list. The vendor shall furnish with each installed wheelchair assembly a complete schematic wiring diagram covering all electrical equipment and electrical circuits installed by him, complete with wiring codes. The vendor shall furnish with each installed wheelchair lift a complete schematic diagram of all hydraulic circuits installed.

**9. Wheelchair Securement Stations**

Each wheelchair space shall be provided with a 4-point Retractable Wheelchair Securement and Occupant Restraint System. Retractor wheelchair securement system shall be a Q-Straint System, or equal, and shall include: four (4) Q8300-A-SC3 (slide & Click), or equal, four (4) Max Retractors Q8-6209-SC, or equal, one (1) Retractable Shoulder Belt Reel Q5-6415-RET-ASL, or equal, and one (1) lap seat belt w/ pin connector Q8-6325, or equal, per securement position. System must meet all ADA, State and Federal requirements.

Securement system shall include retractors, occupant restraint, two (2) web cutters model # 8705, or equal, and four (4) quick straps model #FE200750, or equal.

Two (2) wall mount securement stations shall be installed on the vehicle walls next to wheelchair securement position.



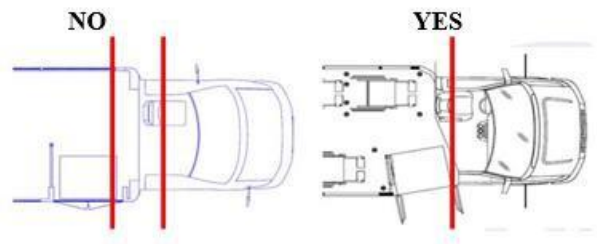
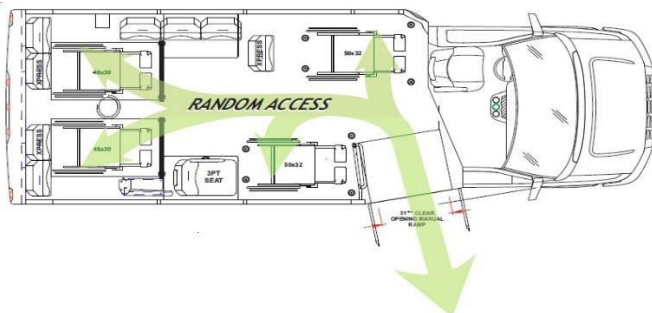
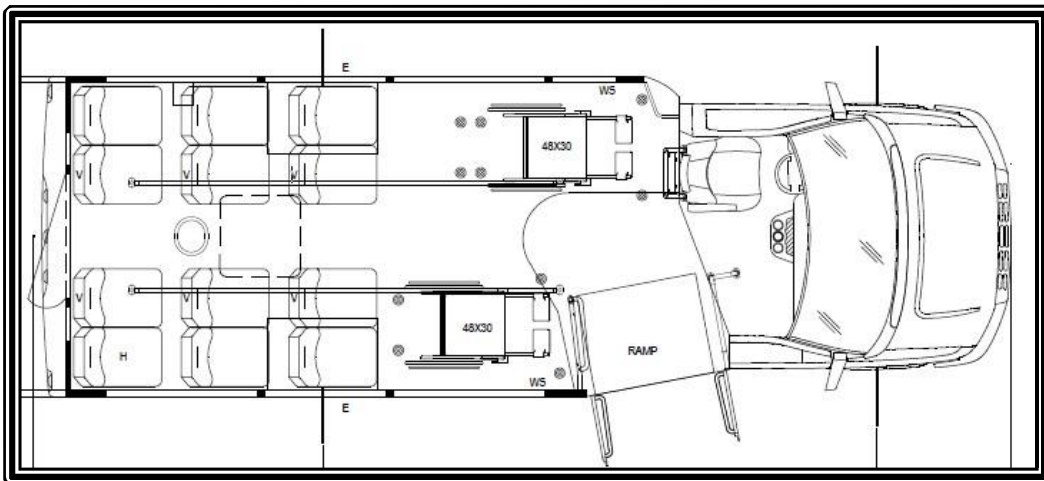
**Special Equipment Needed**

- 1. Digital Security Camera System – four (4) cameras
- 2. Oxygen Holder

**Optional Powertrain**

- 1. LPG Fuel System, if available

**Vehicle Sketches**



## Line 6 – Low Floor 12-2B Alt

These specifications describe the minimum requirements for a twelve (12) passenger, one (1) driver small cutaway vehicle with two (2) wheelchair spaces with interior wheelchair lift, low floor, and 72” headroom.

### Vehicle Detail Specifications

#### 1. Capacity

Shall have a chassis manufacturer’s GVWR no less than 14,200 lbs. and dual rear wheels.

#### 2. Engine Size

Engine shall be a gasoline fueled V-8 or greater engine with a displacement no less than 6.0 L.

#### 3. Wheelbase, Length, and Interior Width

The minimum wheelbase shall be 165”. The minimum overall vehicle length shall be 287”. The minimum interior width at seat height shall be 91”.

#### 4. Fuel Capacity

Vehicle shall have a minimum fuel capacity of fifty-seven (57) gallons.

#### 5. Electrical System

Battery number two (2) to be minimum 700 CCA. Vehicle shall be equipped with a rotary disconnect switch that removes 12V battery power from all bodybuilder loads while not interfering with OEM chassis electrical circuits. Disconnect switch for batteries location to be determined during pre-production meeting.

#### 6. Air Conditioning

Air Conditioning shall be a rooftop system that incorporates the condensers and evaporators. The Rooftop unit shall have a minimum cool air BTU Rating of 85,000 BTU’s. There shall also be a second compressor in addition to the OEM compressor. The secondary compressor shall be type TM-21 or approved equal.

This rooftop system shall have electronic controls that are mounted in the driver’s area. Care should be taken to ensure easy access to these controls by the driver. Vehicle shall have OEM installed factory in-dash air conditioner independent of rear a/c. The interior molded cover must cover any hoses, drains and electrical wiring, with an accessible a/c filter for easy cleaning. A/C systems to utilize the air conditioning industry’s “e-z clip” or “atco crimp clip” type a/c hose system consisting of type D hoses, fittings and clamps. All a/c components brochures, serial numbers, warranty information, service centers, and date of installation shall be received with delivery of vehicle.

#### 7. Body Structure

##### a. Roof and Sidewalls

Interior aisle shall provide no less than seventy-two (72) inches of headroom in the entire vehicle. Exterior FRP (Fiber Reinforced Plastic) Composite will be secured to the side walls with the seam being covered by a rain gutter.

##### b. Entryway

The entryway shall be integral with the body and fabricated from heavy-duty welded steel. The one (1) step entry shall not exceed twelve (12) inches from the ground.

##### c. Floors and Interior Paneling

Substructure shall consist of prime commercial quality steel specifically engineered in a way to protect the occupants. A complete set of schematics showing dimensions of floor should be submitted with bid to be considered. Sides of the sub floors shall be fourteen (14) gauge C-Channel that will overlap the 1.5" x 2.5" sixteen (16) gauge floor line tubing in the side walls. Steel sub floor structure must be isolated from the chassis by means of OEM rubber isolation mounts and bolted through these mounts to the chassis frame rails.

Floor decking shall be a 5/8" thick single piece of engineered wood with moisture barrier laminated to upper surface and moisture sealed edges. The whole floor including aisle, entrance, and step tread areas shall be covered with Altro Transflor Chroma 2.2 mm, or approved equal, and shall be covered up the sidewalls. Floor thickness is all flooring, not a combination of flooring and backing. Flooring to be a blended (not top coated) product that includes Quartz for slip resistance and durability. All seams are to be heat welded to provide one (1) piece, waterproof covering. The cab floor shall have the OEM insulated floor covering.

d. **Door Opener**

The entry door shall be two-leaf, outward opening type, manually operated, and controlled from the driver's seat. The door opening shall be 35" minimum clear opening with entry assist handles. For emergency situations, a manual door release control shall be provided.

**8. Passenger Entry Ramp**

- a. The entry ramp shall be a Braun power ramp, or equal, rated at a minimum of an 800 pound capacity. The entry ramp will be designed to let wheelchair and ambulatory passengers enter the bus once the ramp is fully deployed. Steps are not allowed and all passengers shall enter by way of passenger door. Entry ramp shall be 62 inches minimum and provide a 1:5 angle when deployed to the ground. Where provided, vehicle shall be ADA Fixed Route Compliant per Americans with Disabilities Act. The ramp area shall be equipped with exterior overhead door light and LED Stepwell Lights to illuminate the entry floor/ramp platform meeting ADA specs. These lights shall activate when the ramp is deployed and turn off when the ramp is stowed
- b. Vehicle shall be equipped with an Intermotive brake interlock system or approved equal. The controls for the lift shall be interlocked with the vehicle emergency brakes and transmission to ensure the vehicle cannot be moved when the lift is not stowed and so the lift cannot be deployed unless the interlocks are engaged. Must have an LED status display with two (2) inch red "door ajar" light.
- c. The vendor shall furnish with each installed wheelchair assembly one (1) complete set of operating instructions, trouble-shooting guide, inspection and service guide, and detailed parts list. The vendor shall furnish with each installed wheelchair assembly a complete schematic wiring diagram covering all electrical equipment and electrical circuits installed by him, complete with wiring codes. The vendor shall furnish with each installed wheelchair lift a complete schematic diagram of all hydraulic circuits installed.

**9. Wheelchair Securement Stations**

Each wheelchair space shall be provided with a 4-point Retractable Wheelchair Securement and Occupant Restraint System. Retractor wheelchair securement system shall be a Q-Straint System, or equal, and shall include: four (4) Q8300-A-SC3 (slide & Click), or equal, four (4) Max Retractors Q8-6209-SC, or equal, one (1) Retractable Shoulder Belt Reel Q5-6415-RET-ASL, or equal, and one (1) lap seat belt w/ pin connector Q8-6325, or equal, per securement position. System must meet all ADA, State and Federal requirements.

Securement system shall include retractors, occupant restraint, two (2) web cutters model # 8705, or equal, and four (4) quick straps model #FE200750, or equal.

Two (2) wall mount securement stations shall be installed on the vehicle walls next to wheelchair securement position.

**Special Equipment Needed**

- 1. **Digital Security Camera System** – four (4) cameras
- 2. **Oxygen Holder**

**Optional Powertrain**

- 1. **LPG Fuel System**, if available

**Line 7 – 12-6B**

These specifications describe the minimum requirements for a twelve (12) passenger, one (1) driver small cutaway vehicle with six (6) wheelchair spaces with interior wheelchair lift, six (6) two-passenger flip seats, and 75" headroom.

**Vehicle Detail Specifications**

- 1. Capacity**  
Shall have a chassis manufacturer’s GVWR no less than 14,500 lbs. and dual rear wheels.
- 2. Engine Size**  
Engine shall be a gasoline fueled V-8 or greater engine with a displacement no less than 6.8 L.
- 3. Wheelbase, Length, and Interior Width**  
The minimum wheelbase shall be 158". The minimum overall vehicle length shall be 269". The minimum interior width at seat height shall be 90".

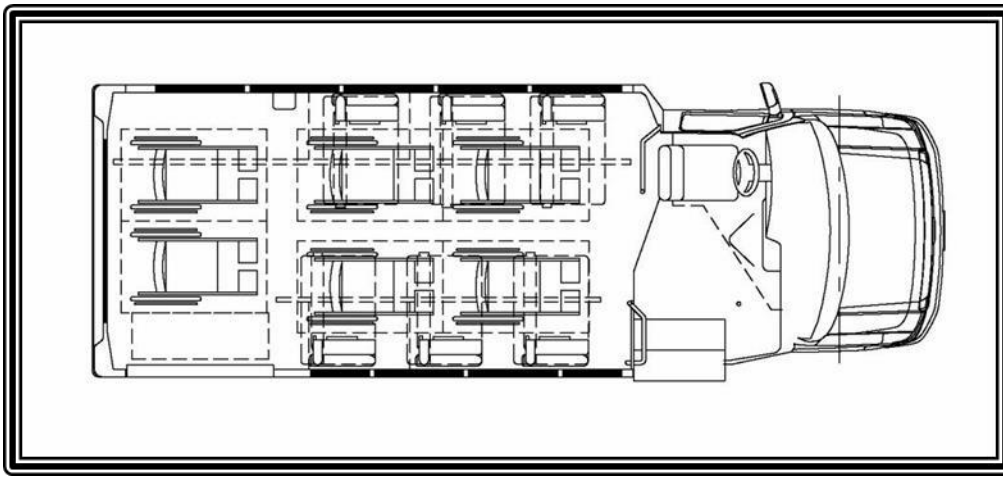
**Special Equipment Needed**

- 1. Digital Security Camera System** – four (4) cameras
- 2. Fully Automatic Wheelchair Lift**
- 3. Wheelchair restraints** – six (6) restraints and six (6) mesh storage containers
- 4. Oxygen Holder**

**Optional Powertrain**

- 1. LPG Fuel System**, if available

**Vehicle Sketch**



**Line 8 – 16-2B**

These specifications describe the minimum requirements for a sixteen (16) passenger, one (1) driver small cutaway vehicle with two (2) wheelchair spaces with interior wheelchair lift and 75" headroom.

**Vehicle Detail Specifications**

- 1. Capacity**  
Shall have a chassis manufacturer's GVWR no less than 14,500 lbs. and dual rear wheels.
- 2. Engine Size**  
Engine shall be a gasoline fueled V-8 or greater engine with a displacement no less than 6.8 L.
- 3. Wheelbase, Length, and Interior Width**  
The minimum wheelbase shall be 176". The minimum overall vehicle length shall be 290". The minimum interior width at seat height shall be 90".
- 4. Seating**  
Seat coverings must be compliant with Docket-90.

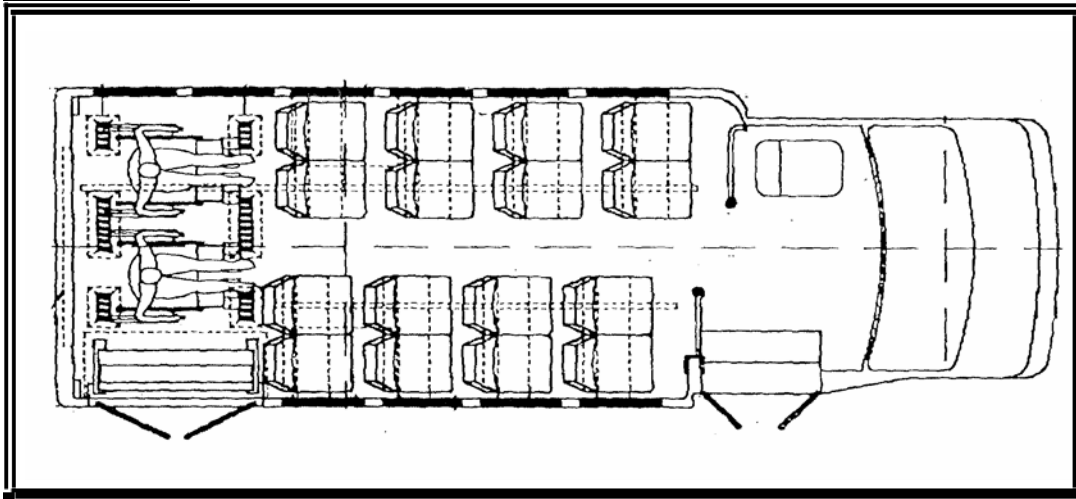
**Special Equipment Needed**

- 1. Digital Security Camera System** – four (4) cameras
- 2. Fully Automatic Wheelchair Lift**
- 3. Wheelchair restraints** – two (2) restraints and two (2) mesh storage containers
- 4. Oxygen Holder**

**Optional Powertrain**

- 1. LPG Fuel System**, if available

**Vehicle Sketch**



<b>Published Options</b>		
<b>Line Number</b>	<b>Option Description</b>	<b>Contract Price</b>
1, 2, 3, 4, 5, 6, 7, 8	Delete Decals	-\$374.00
1	Delete Digital Camera System	-\$1,886.00
2, 3, 4, 7, 8	Delete Digital Camera System	-\$3,175.00
5, 6	Delete Digital Camera System	-\$2,250.00
1	Delete Oxygen Holder	-\$421.00
2, 3, 4, 7, 8	Delete Oxygen Holder	-\$282.00
5, 6	Delete Oxygen Holder	-\$75.00
2, 3, 4, 7, 8	Delete Fully Automatic Wheelchair Lift	-\$5,763.00
1, 2, 4, 5, 6, 8	Delete Wheelchair Restraints	-\$981.00
7	Delete Wheelchair Restraints	-\$2,943.00
5, 6, 7, 8	LPG Fuel System	\$23,147.00
2, 3, 4, 7, 8	2 Position Bike Rack	\$4,252.50
5, 6	2 Position Bike Rack	\$4,939.00
2, 3, 4, 7, 8	3 Position Bike Rack	\$6,669.00
5, 6	3 Position Bike Rack	\$5,995.00
2, 3, 4, 7, 8	PA System	\$513.00
5, 6	PA System	\$660.00
2, 3, 4, 7, 8	Stop Request Pull Cord System	\$947.25
5, 6	Stop Request Pull Cord System	\$1,529.00
2, 3, 4, 7, 8	ADA Passenger Stop Request	\$164.25
5, 6	ADA Passenger Stop Request	\$330.00
2, 3, 4, 7, 8	LED Destination Sign (Front)	\$6,756.75

<b>Published Options</b>		
<b>Line Number</b>	<b>Option Description</b>	<b>Contract Price</b>
5, 6	LED Destination Sign (Front)	\$4,675.00
2, 3, 4, 7, 8	LED Destination Sign (Front & Side)	\$9,540.00
5, 6	LED Destination Sign (Front & Side)	\$7,909.00
1	Diamond NV Farebox	\$2,851.20
2, 3, 4, 7, 8	Diamond NV Farebox	\$2,916.00
5, 6	Diamond NV Farebox	\$2,255.00
5, 6	GFI Farebox	\$37,169.00
2, 3, 4, 7, 8	Energy Absorbing Bumper (Rear)	\$1,388.25
5, 6	Energy Absorbing Bumper (Rear)	\$1,705.00
2, 3, 4, 8	Energy Absorbing Bumper with Backup Assist	\$2,868.75
5, 6	Energy Absorbing Bumper with Backup Assist	\$2,882.00
7	Energy Absorbing Bumper with Backup Assist	\$80.00
2, 3, 4, 7, 8	Energy Absorbing Bumper (Front)	\$2,155.50
2, 3, 4, 7, 8	Overhead Luggage Rack	\$715.50
5, 6	Overhead Luggage Rack	\$4,004.00
2, 3, 4, 7, 8	Stainless Steel Wheel Inserts	\$396.00
5, 6	Stainless Steel Wheel Inserts	\$605.00
2, 3, 4, 7, 8	Powered Exterior Mirrors	\$1,050.75
5, 6	Powered Exterior Mirrors	\$0.00
2, 3, 4, 7, 8	Foldaway Double Seat	\$3,006.00
5, 6	Foldaway Double Seat	\$1,980.00
2, 3, 4, 7, 8	Upgraded Seat Fabric (Per Seat)	\$117.00

<b>Published Options</b>		
<b>Line Number</b>	<b>Option Description</b>	<b>Contract Price</b>
5, 6	Upgraded Seat Fabric (Per Seat)	\$132.00
2, 3, 4, 7, 8	Highback Reclining Seats (Per Seat)	\$1,473.75
5, 6	Highback Reclining Seats (Per Seat)	\$1,749.00
2, 3, 4, 7, 8	Upgraded Driver Seat	\$3,888.90
5, 6	Upgraded Driver Seat	\$2,959.00
1	Dual Hard Drive Camera System	\$2,965.00
2, 3, 4, 7, 8	Dual Hard Drive Camera System	\$4,762.50
5, 6	Dual Hard Drive Camera System	\$4,950.00
2, 3, 4, 7, 8	Painted Skirt	\$2,088.00
5, 6	Painted Skirt	\$2,420.00
2, 3, 4, 7, 8	Front Mud Flaps	\$60.75
5, 6	Front Mud Flaps	\$0.00
2, 3, 4, 7, 8	Electric Passenger Door	\$688.50
5, 6	Electric Passenger Door	\$0.00
2, 3, 4, 7, 8	Windows on Both Sides of Rear Door	\$240.75
5, 6	Windows on Both Sides of Rear Door	\$220.00
1	Additional Wheelchair Securements	\$1,321.25
2, 3, 4, 7, 8	Additional Wheelchair Securements	\$1,359.00
5, 6	Additional Wheelchair Securements	\$1,430.00
2, 3, 4, 7, 8	Inner Dual Rear Wheel Valve Extension	\$94.50
5, 6	Inner Dual Rear Wheel Valve Extension	\$88.00
2, 3, 4, 7, 8	Upgraded Heater	\$589.50



<b>Published Options</b>		
<b>Line Number</b>	<b>Option Description</b>	<b>Contract Price</b>
5, 6	Upgraded Heater	\$990.00
2, 3, 4, 7, 8	Air Ride Suspension	\$9,744.75
5, 6	Air Ride Suspension	\$0.00
2, 3, 4, 7, 8	TV/DVD System	\$2,925.00
5, 6	TV/DVD System	\$2,310.00
4, 7, 8	LPG Fuel Tank Capacity Increase	\$4,927.00
5, 6	Low Floor: Air Kneeling System	\$39,369.00
5, 6	Liquid Spring Rear Suspension	\$21,329.00
1	Textile Barrier on Vans	\$390.00
2, 3, 4, 5, 6, 7, 8	Driver's Barrier Kit	\$2,595.00
2, 3, 4, 5, 6, 7, 8	Add Sliding Door to Driver's Barrier Kit	\$400.00
1, 2, 3, 4, 5, 6, 7, 8	Installation of Driver's Barrier Kit	\$500.00
2, 3, 4, 5, 6, 7, 8	Rear Upper Barrier on Stanchion Poles Behind Driver	\$300.00
1, 2, 3, 4, 5, 6, 7, 8	AeroClave 3110T Decontamination Unit	\$16,999.00
1, 2, 3, 4, 5, 6, 7, 8	AeroClave Nozzle with Hose for AeroClave System	\$1,564.00
1, 2, 3, 4, 5, 6, 7, 8	AeroClave Tripod for AeroClave System	\$260.00
1, 2, 3, 4, 5, 6, 7, 8	AeroClave ADP-AS Dual Headed Hose	\$1,600.00
1, 2, 3, 4, 5, 6, 7, 8	ADP-EX Kit	\$990.00
1, 2, 3, 4, 5, 6, 7, 8	Installation of ADP-EX Kit	\$600.00
1, 2, 3, 4, 5, 6, 7, 8	Data Logger for AeroClave	\$1,600.00
1, 2, 3, 4, 5, 6, 7, 8	AeroClave RDS 3110T Decontamination Kit (Includes RDS 3110T, APA, Tripod, Data Logger, shipping)	\$19,057.00
1, 2, 3, 4, 5, 6, 7, 8	AeroClave ADS 3110T on Board Decontamination System (Includes Compressor and Data Logger, shipping)	\$12,599.00

<b>Published Options</b>		
<b>Line Number</b>	<b>Option Description</b>	<b>Contract Price</b>
1, 2, 3, 4, 5, 6, 7, 8	Installation of ADS System	\$800.00
1, 2, 3, 4, 5, 6, 7, 8	Vital Oxide 55 Gallon Drum	\$1,685.00
1, 2, 3, 4, 5, 6, 7, 8	Case of Vital Oxide Solution with Shipping (4 Gallons)	\$250.00
2, 3, 4, 5, 6, 7, 8	7.0 KW Onan Gasoline Generator	\$14,389.00
2, 3, 4, 5, 6, 7, 8	Generator Compartment with Slide Out Configuration	\$21,182.00
2, 3, 4, 5, 6, 7, 8	Specialty Generator and Shoreline Electrical Base Package	\$34,079.00
2, 3, 4, 5, 6, 7, 8	55' Smartboard or equivalent	\$6,049.00
2, 3, 4, 5, 6, 7, 8	Roof Mount A/C with Heat Strip	\$4,380.00
2, 3, 4, 5, 6, 7, 8	Countertop Workstations	\$1,077.00
1	Full Two Tone Paint	\$14,987.00
2, 3, 4, 5, 6, 7, 8	Full Two Tone Paint	\$22,450.00
1, 2, 3, 4, 5, 6, 7, 8	Clever GHM System	\$31,253.00
2, 3, 4, 5, 6, 7, 8	Clever IVAN5 System	\$69,072.00
1, 2, 3, 4, 5, 6, 7, 8	SEON 6 Camera System	\$14,398.00
1, 2, 3, 4, 5, 6, 7, 8	Motorola Two Way Radio	\$7,869.00