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**OPTIONS**

**#TRIPS-10-SCLF-RFP**

**3.2.2.0 ALTERNATIVE ENGINE, DIESEL, HYBRID OR MULTI- FUEL**

- 3.2.2.1 Chevrolet 300 HP, 6.6L Duramax Diesel engine in place of the standard gasoline engine.
- 3.2.2.2 A hybrid drive train integrated with diesel or gasoline engine.
- 3.2.2.3 Alternative Multi-Fuel engine capable of running on a specific type of man made fuel additive or a multi-fuel engine capable of running on a variety of alternative substitute fuels.
- 3.2.2.4 Provide Manufacturers Extended Warranty identifying maximum mileage and maximum months covered for the OEM Chassis, Manufacturers Warranty, Air Conditioning System, Alternator and Wheelchair Ramp, including any other facets of vehicle to be covered, with the total cost.

**3.2.9.0 WHEELS**

- 3.2.9.1 Provide Aluminum wheels in place of standard steel wheels.
- 3.2.9.2 Equip bus with stainless steel wheel liners / inserts on both front and rear wheels. Liner / inserts shall be Versa-Liner or approved equal, and made of 304L stainless steel with permanently attached simulated lug nuts. The simulated lug nuts shall not interfere with the actual lug nut to wheel contact surfaces.

**3.2.21.0 SEATS, BELT EXTENSIONS, & SEAT UPHOLSTERY**

- 3.2.21.15 Freedman Seating Featherweight Mid-High rigid frame seats.
- 3.2.21.16 Freedman Seating Featherweight High Back rigid frame seats.
- 3.2.21.17 Provide all Freedman seat upholstery material with “*Dimensions With Nanocide*” provided by CMI Enterprises, or approved equal. Dimensions shall be top coated with “*Blockade*”, for advanced antimicrobial protection and cleanability. Contractor shall provide standard samples for interior color coordination.
- 3.2.21.18 Provide all Freedman Featherweight or 3-PT passenger seat with Dimensions

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vinyl line of coated transit bus seating fabric with antimicrobial Nanocide, by CMI Enterprises, or approved equal. CMI Nanocide level 4 fabric kills 99.99% of resistant Staphylococcus germs within 30 minutes. The antimicrobial coating and its nanoparticles shall not be removable by cleaning or normal wear, must not get diluted or neutralized for the life of the product. The product shall emit silver ions to eliminate microbes and common bacteria. Silver ions released during normal use are quickly deactivated in wastewater by common substances like chloride and sulfide to form uncreative minerals.

- 3.2.21.19 Upgrade interior side wall panels with Nanocide antimicrobial fabric, from the ceiling light fixtures down to the seat track, or 12 inches (12") above the floor covering. CMI Nanocide is described above in **Part 3: Options: 3.2.21.6.**
- 3.2.21.20 Extend the length of the standard seat belts provided. Two seat belt extensions are to be provided as standard. A third or more seat belt extensions may be purchased.

#### **3.2.24.0 DRIVER'S SEAT**

- 3.2.24.2 Freedman CL 67 air suspension driver's seat with right hand arm rest in place of standard driver's seat.
- 3.2.24.3 Freedman Sport Driver's seat with Relaxor, four zone eight motor system with lumbar heat in place of standard driver's seat.

#### **3.2.25.0 NON-SLIP TRANSIT FLOORING**

- 3.2.25.3 Provide Altro Transflor slip resistant sheet vinyl flooring with smooth, all welded seams. Each customer will determine color / design selection. Include Altro step tread material with *yellow* step nosing and *white* "standee line" insert.

#### **3.2.26.0 DRIVER SAFETY PARTITION**

- 3.2.26.3 To prevent passenger physical contact with the driver, install a 1/4" Lexan, or approved equal, shield wall, 3" below the ceiling to 36" above the floor; and a modesty panel from below the Lexan Plex shield frame to 3" above the floor, supported by stainless-steel tubing, similar in construction and design to the modesty panel adjacent to the front passenger door. Unit shall be designed to permit attachment of customer notification panel and/or pamphlet holder units.

#### **3.2.27.0 GRAB RAILS AND STANCHIONS**

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3.2.27.6 Powder-Coated handrails and stanchions to match the vehicle interior and manufactured by Bentec, Inc, or approved equal.

**3.2.31.0 REMOTE EXTERIOR MIRRORS**

3.2.31.5 Provide right and left side exterior remote controlled mirrors, adjustable from the driver's seat.

**3.2.34.0 BUMPERS & REVERSE ASSISTANCE DETECTION SYSTEM**

3.2.34.2 Rear energy absorbing Romeo Rim HELP bumper assembled with HawKEye Reverse Assistance System, (Romeo Rim Help Guard) in place of standard rear HELP bumper.

3.2.34.3 Reverse camera and monitor backing system, in lieu of HawKEye System above.

**3.2.37.0 ADA MOBILITY DEVICES**

3.2.37.3 Lift-U model LU-11 wheel chair ramp.

3.2.37.4 Ricon "Expressramp" wheel chair ramp.

**3.2.38.0 SECUREMENT DEVICES**

3.2.38.14 Q'Pod Wheelchair Passenger Securement Station by Q'STRAIT

3.2.38.15 Install a stretcher securement system in the rear aisle of the bus. A lock-down system shall be installed in floor at the rear and front of the stretcher for securement of brackets that connect to the stretcher frame. A storage container(s) shall be securely installed at the rear interior corner(s) of the bus for the purpose of storing the brackets when not in use. With this option, the air ride system should be adjusted down to reduce the ground-to-floor distance. Provide the accompanying stretcher bed for the securement system described above.

3.2.38.16 Stretcher bed (only) as an option (**See Part 3: Options**)

**3.2.39.0 SAFETY EQUIPMENT**

3.2.39.8 Jomarr Vehicle Thematic Fire Suppression (VTS) Clear Agent System, a complete turn-key automatic fire suppression clear agent system, or approved equal.

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- 3.2.39.9 Amerex Small Vehicle System (SMVS), a complete turn-key automatic fire suppression powder system, or approved equal.
  - 3.2.39.10 247 Security, Inc. video/audio camera system, or approved equal, with G-force accelerometer in 3 axes (as per standard), minimum eight (8) driver function monitoring sensors (*brake, reverse, left turn signal, right turn signal, hazard 4-way warning lights, horn and speed*) and a minimum of two (2) cameras with video/audio capability.
  - 3.2.39.11 Camera (only)
  - 3.2.39.12 "*Mentor Ranger*", an in-vehicle computer, manufactured by Mentor, that allows electronic delivery of passenger manifests, automatic data collection, in-vehicle navigation, and enhanced driver/dispatcher communication. The system shall be capable of integration to other on-board systems, including existing APC, IVR and GPS onboard units, and shall be a turn-key installation.

### **3.2.40.0 PA & ENTERTAINMENT SYSTEMS**

- 3.2.40.2 Install a Radio Engineering Industries (REI) public address system with hand-held microphone within easy reach of the driver with a microphone jack for optional hands-free use by driver. If an audio entertainment center (**3.2.40.3**) is installed, utilize its speakers in mid and rear bus and install a cancel switch to turn off entertainment center system when microphone transmit button is depressed by driver. Provide a 20' long microphone extension cord and provide a microphone jack adjacent to the front curb-side seat.
- 3.2.40.3 Upgrade the standard vehicle AM/FM Radio, providing a AM/FM/CD Stereo and MP3 Player with digital clock, with front, mid-bus and rear speakers, or approved equal quality.

### **3.2.41.0 DESTINATION SIGNS**

- 3.2.41.2 A manually operated destination sign for limited destination readings shall be offered. Front destination sign shall be a Transign LLC, single roller curtain type installed above the windshield with a glass exposure of 8 inches x 60 inches. The side destination sign for a front door only bus will be a single roller type installed in the upper curbside window immediately behind the entrance door with a glass exposure of 5-3/4" x 28". The side destination sign for a front and rear door bus shall be installed in the upper curbside window immediately in front of the rear door. Destination signs will be electrically operated, LED, fluorescent or incandescent backlit display, single curtain, .003 mil. thick Mylar anti-glare material, with provisions for a minimum of 25

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readings and a maximum of 175 readings of 5 inch high Helvetica medium font letters for the front sign and Helvetica medium font letters 4" high characters for the side sign. Control switch is to be located on the left hand of the driver's console. Curtain destination signs will conform to the Americans With Disabilities Act Part 38. Characters on these signs will have a width-to-height ratio between 3:5 and 1:1 and a stroke width-to-height ratio between 1:5 and 1:10. Generally, the space between letters will be 1/16 the height of upper case letters and will contrast with the background using either yellow letters on green or black background; or white letters on red, green, blue or black background per the purchaser's choice, for route and destination identification. The following destination readings will be standard on all destination signs ordered under this contract, with colors noted:

**Bus Garage** (yellow letters on black background)  
**Not In Service** (yellow letters on black background)  
**Special Service** (yellow letters on black background)  
**Shuttle Service** (yellow letters on black background)  
**Downtown** (yellow letters on green background)  
**Town Center** (yellow letters on green background)  
**Public Transportation** (yellow letters on green background)  
**Emergency Service** (white letters on red background)  
**Emergency Shelter** (white letters on red background)  
**Evacuation Route** (white letters on red background)  
**Express** (white letters on red background)

- 3.2.41.3 Twin Vision Elyse software Electronic Destination system full front and side signs; and a separate rear number only sign shall be provided. The system shall be compatible with Windows 2000 or Windows XP software, using IBM 486 or higher PC/AT capacity, PCMCIA memory download technology. Electronic destination signs will conform to the Americans With Disabilities Act Part 38. The electronic destination sign shall utilize Helvetica yellow medium lettering on black background. The readings listed in 2.42.1 above, shall also be standard in all Elyse electronic destination signs ordered under this contract.
- 3.2.41.4 A Twin Vision Mobi-Lite electronic destination sign, or approved equal, with side destination sign, using amber LED's and has fully programmable features that allow both large single and double line capabilities. The readings listed in 2.42.1 above, shall also be standard in all Mobi-Lite electronic signs ordered under this contract.
- 3.2.41.5 A Transign LLC 2-digit incandescent backlight, with anti-glare finish, dash mounted Block/Run Number Box, or approved equal, shall be provided.

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White, red or yellow LED letters/numbers on a black background, displayed in a plastic or metal frame, to operate on a 12 volt system.

3.2.41.6 A Transign LLC 3-digit incandescent backlight, with anti-glare finish, dash mounted Block/Run Number Box, or approved equal, shall be provided. White, red or yellow LED letters/numbers on a black background, displayed in a plastic or metal frame, to operate on a 12 volt system.

3.2.41.7 A "STOP REQUESTED" sign, as manufactured by Transign LLC, or approved equal, installed in the front vestibule area. Sign is activated by passengers and de-activates with the opening of the passenger entry door. Injected molded with display area of 2.5 X 19.75 minimum. Provide a silk screened lens display face with yellow letters on green background, or as required by Purchaser.

**3.2.42.0 LIST OTHER MANUFACTURER OPTIONS AVAILABLE FOR CONSIDERATION**

3.2.42.1

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3.2.42.2

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3.2.42.3

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3.2.42.4

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3.2.42.5

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*(3.42.0 Add additional numbered lines and pages if necessary)*