

OFFICE OF COUNTY MAYOR GLENN JACOBS

Procurement Division, 1000 N. Central Street, Suite 100, Knoxville, TN 37917

Knox County Procurement Division Addendum I to Invitation to Bid #2893 Fourteen (14) Passenger Vans

Addendum Date: September 20, 2019

Opening Date: October 2, 2019 at 2:00 pm

Buyer: Christina Davin

Total Page(s): Seventeen (17)

The following is to be added:

Add: 4.2.31 Maroon vinyl will be included on exterior of Bus: CAC, Knox County CAC Transit in 2 (two) locations, the phone number in 3 (three) locations, and the wrap around roadway path that has cut out dashed lines. Please see Appendix C.

The following is to be amended:

Delete 1:	4.2.21	Exterior colors used on bus including tire rims to be Ford white with maroon stripes. See Appendix 'B'.
Add 1:	4.2.21	Exterior colors used on bus including tire rims to be Ford white with maroon stripes. See Appendix 'C'.

- Delete 2: Section VI Specification Checklist Attachment A
- Add 2: Section VI Updated Specification Checklist Attachment A
- Delete 3: Appendix A
- Add 3: Updated Appendix A

The following is for Clarification:

- Question 1: we reviewed the seating plan drawing on page 48, Diagram Appendix A. This drawing shows a flip seat behind the curbside wheelchair position not referenced in the specifications. This seat would be add a 15th passenger, making it a CDL required bus. Page 33, fifth box does specify this one [1] additional single fold-up bench seat. Is this single flip seat required, or not, and if so is a 3 point seatbelt or a lap belt required? Please clarify.
- Answer 1: We only want 7 of the 3PT seats that fold up for the capacity of 14. No single seat. Drawing should show 7 seats. Please see the attached Updated Appendix A.
- **Question 2:** Please note regarding length of seatbelt [90" specified], we are offering the standard length 3PT seatbelt that comes with the Freedman GO-ES seat, since this is all that is available that meets FMVSS requirements. Please approve.
- **Answer 2:** We want the longest available and have requested seatbelt extensions.
- **Question 3:** Page 1, Section 1.6 [and elsewhere]: Is a hard copy bid required, and if so, in additional to the original how many copies are required. Or; may bidders mail either a hard copy or submit on-line as referenced in Section 1.14 on page 2 in the bid document.
- **Answer 3:** Correct, Bidder may choose how they submit.



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- Question 4: Page 18, Section 4.2.20: Specification requires that track run "full length" from front to rear. This makes sense for the three [3] street side wheelchair positions, but does Knoxville CAC require that the track run "full length" from front to rear since there is only on wheelchair position on the curbside. Please clarify, length of track on curbside that runs front to rear, it could be 48", 50", 52", full length of passenger compartment, etc.?
- Answer 4: They need to run full length for the street side and long enough for the one wheelchair to be secured on the single station.

Question 5: Page 18, Section 4.2.21: Paint & Graphics:

- We assume that the reference to Appendix B in this section should be Appendix C, since Appendix B depicts camera locations. It is not clear to us on Appendix C or B where the maroon stripes should be. We suspect that the maroon color is a vinyl and is the curved belt line around the bus with white dashes? Please clarify. Photos would be helpful, if you can please provide in your response.
- **Answer 5:** Please see above Added and Amended 1, the Appendix has been amended to Appendix C.
- **Question 6:** Also, it appears in Appendix C that there may be a black painted band around the side passenger windows. Is a painted black band around the windows required? Please clarify.
- Answer 6: Black band not required.
- Question 7: Page 21, Section 4.11.2 Radio: Please clarify; third bullet point requires two [2] front radio speakers wired to dash and the seventh bullet point requires four [4] speakers in passenger compartment for AM/FM radio. Are a total of six [6] speakers required, or just four [4], and if six [6] are all six [6] to be wired to the AM/FM radio? Please clarify.
- Answer 7: Six speakers total with wired for radio..
- **Question 8:** Page 24, Section 4.23.3: There are a variety of Ford authorized extended service ESP plus warranty protection plans available. Please clarify which plan is required.?
- **Answer 8:** Just give options as to what you have available and the pricing.
- **Question 9:** Please clarify if you are looking for separate pricing for each component of the build. These prices/percentages are captured during the Post Award Buy America audit only.
- **Answer 9:** Bidder must list components and the domestic content as required by Buy America. These requirements are a national requirement.
- **Question 10:** 3.46 Please accept that the firm price will only apply for as long as 2019 chassis are available with 6.8L V10 engine rather than 12 months. Please make provision for chassis price increase after Ford terminates production of the 6.8L V10. Ford has not yet released the new engine specifications or pricing.
- Answer 10: Knox County will not accept price increases due to a new chassis and the testing as that process could take months. At that time, the County would rebid.
- **Question 11:** 3.55 2 year contract will be subject to 2019 Chassis availability. Please make provision for chassis price increase after Ford terminates production of the 6.8L V10. Ford has not yet released the new engine specifications or pricing.
- **Answer 11:** Per Section 3.46 Pricing must stand firm for a year. At renewal time, the vendor may request a price increase

End of Addendum #1.

Addendum must be acknowledged in your submittal. Christina Davin, Senior Buyer, Knox County Procurement

VENDOR_

Bidders must complete the Specifications Checklist and return with their bid. If submitting electronically, bidders must attach the Specifications Checklist with their response. Bidders are to indicate if the Fourteen (14) Passenger Vans bid meet the minimum specifications by marking the "Yes" or "No" box. If the minimum specification is not met, bidder must explain in the "Comment" section. Bidders may include additional sheets if needed.

6.1 TECHNICAL SPECIFICATIONS

Specification	Yes	No	Comments
General Dimensions			
Length: 24 ft. 6 inches maximum			
Interior Width: maximum 93"			
Interior Height: minimum 75" at center after raised floor			
Wheelbase: 176" maximum			
Top of first step height from ground: 12" maximum			
GVWR: minimum 14,500 lbs.; provide GVWR in			
'Comments'			
Engine			
10 cylinder gasoline engine			
400 cubic inches minimum			
Engine compartment insulated from passenger			
compartment with fiberglass material or equivalent			
Interior noise will not exceed 80 dba under 45 mph			
Interior noise will never exceed 83 dba	L		
Engine furnished with a large capacity, full flow oil filter			
and engine oil cooler			
Cooling System			
Radiator: heavy-duty (4-core) with greatest available			
capacity recommended by manufacturer			
Coolant recovery system present to return expelled			
coolant to the system			
Largest radiator fan complying with manufacturer's			
standards provided			
Permanent ethylene glycol antifreeze providing			
protection for ambient temperatures from -20°F to			
+100°F while vehicles are used for prolonged transit			
purposes Electrical System – 12-Volt			
	_		
Alternator: minimum 225 amps SAE rating			
Minimum amperage: cold rated; delivers 165 amps to 200°F			
Alternator/regulator protected from wheel wash			
Dual, heavy-duty 12-volt horn provided, protected from wheel wash			
Electrical System – 12-Volt			
Dual OEM batteries with cold crank of no less than 1,050			
amps			
Dual OEM batteries are to be lead acid premium			
construction, maintenance free. Both batteries are to be			
mounted on a slide-out tray with dual battery door/tray			
locked closure system			
Third battery (8D) used to power the wheelchair lift			
mounted in a separate compartment with a slide-out tray			
on the side of the vehicle			
RV type isolator to separate the 8D battery from the dual			
batteries			

Electrical System – 12-Volt	Yes	No	Comment
Wiring to be color-coded and function-coded			
Wiring diagram provided explaining coloring, function and components of the system			
No butt or "T" connectors used			
All wiring of sufficient size to carry required currents without excessive voltage drops			
All wiring protected from heat, water, solvents, road splash, stones, grease, oil, fuel, abrasion, and chafing by proper insulation, conduit, or flexible tubing			
Disconnect switch easily reachable from the driver's seat provided capable of disconnecting all circuits			
Switch heavy-duty; can carry any load it encounters; to be 70-2281-1 Flexible Corp. part number or equal			
Wiring devices, switches etc. except circuit breakers, are to be rated to carry at least 125% of the maximum ampere load for which the circuit is protected			
Master electrical component panel located inside the bus			
Master electrical component: in compartment, power distribution is accomplished through a non-printed-circuit board (PBC) distribution center utilizing Packard 280 and 800 series (or equal) connection pins Bussmann-Cooper (or approved equal) power distribution center utilizing automotive mini and micro relays and fuses provide circuit protection			
Fuel System			
Fuel Tank Capacity: minimum 55 gallon capacity			
OEM fuel filter with replacement elements			
No dual tanks are to be used			
Designed to keep fumes from entering passenger compartment			
All federal safety standards are to be met			
Steering			
Heavy-duty power steering system that is self-centering with little driver effort			
Steering mechanism constructed to make the wheel free from road shock and vibration			
Metal steering wheel, covered with plastic or synthetic resin and the vehicle has tilt steering			
Transmission			
Transmission: heavy-duty, fully automatic power shift, 4-speed, hydraulic-drive type, overdrive is 5 th gear			
Transmission shift level: interlocked with the starting motor to prevent engagement of starter in any gear position other than 'neutral' or 'park'			
Audible warning system outside of vehicles activated when the transmission is in 'reverse'			
Auxiliary transmission oil cooler provided			
<u>Brakes</u>			
Dual hydraulic/hydroboost brake booster, power, self-adjusting brakes with front disc/rear disc with 4-wheel ABS			
Brakes: heaviest available with a minimum rotor diameter of 12.5", Brakes are to be self-adjusting			

SECTION VI UPDATED SPECIFICATIONS CHECKLIST ATTACHMENT A BID 2893, FOURTEEN (14) PASSENGER VANS

Parking Brake: either a transmission drum type or rear aste mounted type (state which in 'Comments') and shall activate the rear wheel brakes Image: Comments' and shall activate the rear wheel brakes Handle or pedal that activates the parking brake is easily accessible to driver but does <u>not</u> hinder driver's movement to or from the driver's seat Image: Comments' and the state is a state the state and the stipped loose in each vehicle. Is pare wheel and the stipped loose in each vehicle. Is pare wheel and the stipped loose in each vehicle. Is pare wheel and the stipped loose in each vehicle. Is pare wheel and the stipped loose in each vehicle. Vehicles have dual rear wheels and single front wheels Image: Comments' and the stipped loose in each vehicle. Suspension Front Axte Capacity: 5.000 lbs. minimum Rear Axte Capacity: 5.000 lbs. minimum Rear Ayle Capacity: 9.450 lbs. minimum Rear Axte Capacity: 9.4500 lbs. Iminimum Rear Ayle Capacity: 9.4500 lbs. minimum Rear Axte Capacity: 9.4500 lbs. Iminimum Rear Ayle Capacity: 9.4500 lbs. Iminimum Rear Ayle Capacity: 9.4500 lbs. Front Axte Capacity: Growbined rating at ground): 5.000 lbs. Iminimum Rear Ayle Capacity: 6.4500 lbs. Front Ayle on column, turn signal and flasher Iminimum Rear Ayle Capacity: 6.4500 lbs. Front Ayle daued on column, turn signal and flasher	Brakes	Yes	No	Comment
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Locked storage compartment in front of bus, passenger side above windshield Tilt steering wheel				
above windshield Tilt steering wheel				
Tilt steering wheel				
Chrome grill				
	Chrome grill			

Instruments, Controls, Base Equipment	Yes	No	Comment
Reverse alarm			
Standard driver's seat (to be reclining)			
Front and rear mud flaps			
Automatic fast idle in driver's area			
Mounted console with cup holders (sized for legal size			
clipboard to right of driver's seat)			
All gauges clearly visible to driver from seated position and all			
switches within reach of seated driver/allow driver to continue			
safe operation of vehicle while engaging or disengaging switches			
Exhaust System			
Manufacturer's heaviest duty system available for engine.			
System is corrosion resistant and securely fastened/routed to			
protect components from hazards			
Exhaust will exit street side of vehicles. Exhaust system			
minimum 3.5" diameter			
Body and Accessories			
Body structure built as integral unit reinforced at joints and			
corners where stress concentration may occur to adequately			
carry required loads and stand road shock			
Body structure full steel "cage" type construction; walls/sides			
welded together, no mechanical fasteners, bolts, or clips used			
to hold steel cage together			
Structural support members minimum 1 1/2" x 1 1/2", 16 gauge			
steel tubing (list is included) if using an item not included on			
list, note in 'Comments'			
Body bolted through sub-floor structure to chassis frame as			
recommended. Welding body understructures to chassis frame			
will not be permitted			
Exterior panels (walls and roof) to be metal/fiberglass			
composite. Side walls are the equivalent of .040 aluminum or			
.060 FRP, laminated to non-wood, moisture and mold resistant			
substrata backer material, or approved equal. Wood substrate			
(i.e. Luan) is <u>not</u> acceptable			
Exterior panels are to be riveted, welded, or bonded to body			
framing (pop rivets and sheet metal screws not acceptable).			
Panels installed to shed water. Side panels below the floor line			
easily removable for service/repair			
Stepwells to be one-piece construction, adequately reinforced			
to prevent deflection			
3 steps provided, minimum tread depth of 8.5" inches. Bottom			
step height no higher than 12" inches			
Steps and risers in accordance with federal regulations			
governing elderly and handicapped transport vehicles. Stepwells to be lighted and continuous for the full width of the			
door opening Undercoating applied to metal parts subject to rust/corrosion			
by elements. Polyolueim, Ziebart, Quaker State Soundoff,			
Ashland Tectyl 165G or equivalent used. Automotive			
undercoating not satisfactory			
Fasteners (nuts bolts, clips, washers, clamps, etc.) are a type			
that prevent corrosion (zinc, cadmium plated or phosphate			
coated). No sheet metal screws			
Nuts/bolts to be Grade 8 type, sourced in USA			
	l	1	

Body and Accessories	Yes	No	Comment
Major components (transmission, engine, radiator, battery,			
alternator, A/C compressor) accessible by access doors			
Have standard front and rear bumpers			
At least 2 tow hooks provided/securely attached to vehicles'			
understructure. Tow hooks mounted at rear and located so no			
damage occurs to vehicle under tow			
Floor : Plywood material applied over steel floor structure and			
securely fastened thereto			
Plywood a minimum 5/8" five-ply, resin, waterproof bond,			
laminated fir, A-C Exterior Grade or better, manufactured in			
conformance with U.S. Product Standard PS 1-74 for			
Construction and Industrial Plywood or approved equal			
Floor raised to level of wheel wells to provide flat surface, with			
minimum 75" headroom at center			
Step to access raised floor incorporated in stepwell whereas			
passenger to be at level of raised floor at top of the entrance			
stepwell. An additional step in the passenger compartment (or			
upon entering passenger compartment) is <u>not</u> acceptable.			
Floor Covering: Floor covering to be Altro floor covering or			
approved equal. The minimum thickness must be at least 2.2			
millimeters. The flooring material shall meet minimum required			
thickness. The flooring shall be a blend of PVC and quartz			
aggregate. Any "matting" glass fiber web," or "backing" shall			
not be included as part of the required thickness. Industry			
standard warranty of 10 years for 2.2 millimeter thickness			
flooring is required.			
Under Seat Area: The area under the seating area covered			
with ALTRO floor covering or an approved equal			
Aisle: Aisles black non-skid, wear-resistant ALTRO floor			
covering or equal			
Bonding: Floor covering bonded to the floor with waterproof			
sealer. Covering must not crack when subjected to sudden			
temperature changes. All seams to be heat sealed			
Step Tread: Step tread edges, including floor level, covered			
with rally molded nosing. Step edges to have a 2" inch wide			
white diagonal striped band running the full width of the step			
Passenger Entrance Door: Front doorway provided on right			
side of each vehicle. The door will be two-leaf outward			
opening. Clear opening width minimum 29" inches/minimum			
clear opening height to be 80" inches			
Passenger entrance door manually operated. Assist handles			
mounted on both sides of stairwell. Doors and door wells			
constructed to prevent drafts and water entry. Door and door			
openings to comply with federal regulations. The door shall be			
equipped with the largest steel available to ensure durability for			
extended use of the door			
Driver's Door: Driver's door at left side of the driver's seat.			
Minimum of 2 steps (plus a running board) aid driver entering			
or exiting			
Emergency Exits: Emergency exits comply with			
F.M.V.S.S.517.217-76. Required that clearly marked push-out			
windows be located at the rear and each side. Red indicator			
light will be placed above emergency exits and remain			
illuminated when bus is in service			

Body and Accessories	Yes	No	Comment
Wheelchair Lift Door: Mounted behind rear axle, complies	1	1	
with ADA regulations			
Windows - Passenger, Side: 3/16" thick side windows of			
single density; tempered safety glass with 44% maximum to			
28% minimum light transmission gray glaze. Windows have			
aluminum frames, ventilating type with T-slides at top sill. 1			
window on each side of body to be push-out type and clearly			
marked for emergency exit. Windows/frames meet/exceed			
federal and state of Tennessee Standards including			
F.M.V.S.S. 217			
Driver's side window : Gray glazed with ¹ / ₄ " inch tempered			
glass; easily adjustable with one-hand operation			
Rear window: Minimum 1,000 square inches, push-out	ł – –		
type. Van-guard (rear window lens) should be installed in			
rear window			
Windshield: 1/4" inch laminated safety glass with single			
density tint.			
Entrance Door Windows: Single fixed type, single density			
safety glass; allows maximum visibility			
Windshield Wipers & Washers: 2 heavy-duty electric, self-			
parking, two-speed windshield wipers furnished. Windshield			
washers with ample reservoir located for easy inspection,			
maintenance, filling and removal			
Heating/Defrosting Systems: Consist of at least 2 units,			
one front unit located in driver's area, and one unit located			
to uniformly heat bus. Rear to have shut off valve			
Front unit to have one large heater core and heavy-duty			
blower to provide heated air for defrosting windshield and			
bus's heat. Blower motor controlled by a minimum three-			
position switch on the driver's control panel			
Additional outlet provided near driver allowing heated air to			
driver's area. Lever/knob to control distribution of heated air			
between defroster plenum chamber and bus's heating outlet.			
Control located conveniently for driver			
Intensity and temperature of heated air regulated by driver			
at driver's control panel			
Bus's rear heating unit located to provide 65°F inside			
temperature (evenly distributed) at 0°F ambient. Inside			
temperature measurement with empty bus. Circulation			
blower controlled by three-position switch on driver control			
panel. Combustion type heaters not permitted			
Add required amount for permanent all-weather coolant after			
heaters have been connected to protect cooling system to -			
20°F tested at normal engine temperature			
Minimal heater output for the passenger area 35,000 BTU;			
minimal driver heater output 20,000 BTU			
Air Conditioning and Ventilation: Complete factory air			
conditioning system capable of providing			
cooling/dehumidifying capacity for passenger comfort.			
System capable of maintaining a 72°F interior temperature			
with full load of passengers, with an ambient temperature of			
98°F and 70% relative humidity. Warranted 36			
months/75,000 miles			

SECTION VI UPDATED SPECIFICATIONS CHECKLIST ATTACHMENT A BID 2893, FOURTEEN (14) PASSENGER VANS

Specification	Yes	No	Comment
Passenger air conditioner unit shall be Thermo King SA-		+	
800 (or approved equal) dual compressor			
system. Minimal air conditioner output for the passenger			
area is to be 67,000 BTU. Minimal driver air			
conditioner output will be 12,000 BTU.			
Multiple cool air outlets evenly distribute cool air for			
passengers/operator. Bottom vents in rear evaporator required			
Furnish full details of AC system proposed for vehicles. Product			
information showing evaporator/condenser models included			
One dash unit for driver area and one large heavy-duty			
internally mounted roof unit (with appropriate drainage to			
prevent leaking) for passenger compartment. Condenser skirt			
mounted. No exterior roof mounted equipment			
Ventilator providing direct ventilation for the brake/acceleration			
pedal furnished. Driver can control air to be outside (vent),			
heated (heater) or cooled (AC)			
Interior and Exterior Lighting: Automatic access light(s) at			
passenger entrance to light outside approach to entrance and			
the stepwell. Light(s) situated to avoid damage by bus's			
washer, tree limbs, etc.			
Automatic access light(s) installed to light wheelchair lift and			
entrance to lift. Wheelchair lift light comes on when lift door is			
open. Light meets ADA lighting requirements, and activates by			
a door jamb plunger switch			
Lights illuminate the aisles, passenger compartment, and			
seating positions			
Driver's overhead light that enables driver to read/write at night			
while in driver's seat			
Instrument panel lighted enabling driver to see gauges from			
upright seated position while driving			
Exterior light(s) comply with federal/state requirements			
Exterior Lighting: LED lights (except for OEM cab) and will			
include sealed beam headlights with high and low beam switch			
(turn signal activated)			
Front, rear and side directional signals, operated by lever on left			
side of steering column; self-cancelling type			
2 white/clear backup lights in rear of vehicles, engage when			
transmission in reverse			
Rear mounted, red, combination stop/signal tail lights; tail light			
below both in one unit			
Single, white rear license plate light			
Front and rear clearance lights			
Minimum 6 reflectors; 2 red on rear, 1 on each side; rear area,			
1 on each side; front area, amber			
Front/rear identification markers, amber front and red rear	<u> </u>		
Switch provided to operate directional signals simultaneously			
as an emergency warning signal; on steering column			
Seating Arrangement/Floor Plan: Seating arrangement/floor			
plan to accommodate four (4) forward facing wheelchairs and			
six (6) forward facing passengers or fourteen (14) ambulatory			
passengers with no wheel chairs in place			

Specification	Yes	No	Comment
Body and Accessories			
Passenger seats will be seven (7) 34" Freedman 3PT			
Foldaway Seat or approved equals. Back height should be			
21-1/2" from top of seat cushion.			
Vinyl seat covering required (provide sample). Aisle seat has			
padded armrest (aisle side); flips up for easy access			
Aisle seats have top padded grab rails			
Seating capacity shall be (14) seated passengers (see			
diagram Appendix A), or four (4) Wheelchairs and (6)			
ambulatory. Three (3) wheel chair positions shall be placed			
on street side behind driver and One (1) wheel chair position			
shall be placed curbside directly beside lift. All seating shall			
comply with F.M.V.S.S. 207 and 302.			
1 additional single fold-up bench seat installed along rear wall			
behind street-side wheelchair position; allows 1 additional			
passenger; seatbelt installed for additional seat			
Retractor wheelchair securement/occupant restraint systems			
forward facing and is Sure-Lok System AL812S-4C series or			
equal			
Retractor wheelchair securement system complies with			
ANSI/RESNA WC-18 Wheelchair Tiedown and Occupant			
Restraint Systems for use in Motor Vehicles (30MPH/20G			
impact test criteria), 49 CFR Part 38 Americans with			
Disabilities Act (ADA), CSA Z605 Mobility Aid Securement			
and Occupant Restraint Systems for Motor Vehicles			
(30MPH/20G impact test criteria), <u>and</u> ISO 10542 (proposed)			
Wheelchair tiedown and occupant Restraint Systems for use in Motor Vehicles (30 MPH.20G impact test criteria)			
requirements			
Retractors heavy duty with heat-treated, plated			
components/minimum 48 ratchet teeth in metal housing			
Retractor kit has at least 4 retractors to secure wheelchair			
Retractors equipped with 2 manual positive-locking tension			
knobs for tightening webbing for front/rear positions. Retractor			
has positive-locking release button for releasing webbing			
Wheelchair securement & occupant restraint systems have			
label on each assembly; identifies type of belt, date of			
manufacture, and manufacturer name/part number			
Combination pelvic/upper torso seat belt required.			
Passengers provided with pelvic seat belt 90" in length. Seat			
belts are standard buckle type and seat belts/ anchorages			
meet requirements of F.M.V.S.S. 209 and 210. Seat belts			
must compatible with infant/child restraint equipment. 8			
seatbelt extensions must be provided			
Driver's seat is to be Freedman Shield Driver's Seat with			
Adnik Powered Base or equal. Driver's seat will have side			
armrests. Color of seat will match passenger seats. A quick			
release-type retractable combination pelvic/upper torso seat			
belt is to be installed for driver			
Wheelchair Tie-downs: Floor anchorages for tie-downs to be			
OMNI L-Track or equal, flush mounted to the floor surface,			
with no protrusion with track running the full-length of the bus			
Heavy duty seat belt cutter, Sure-lok Part #8705 or equal to			
be included			

SECTION VI UPDATED SPECIFICATIONS CHECKLIST ATTACHMENT A BID 2893, FOURTEEN (14) PASSENGER VANS

Specification	Yes	No	Comment
Body and Accessories			
Heavy duty storage pouches, Sure-Lok Part #FE201145 or			
equal provided to hang tie-downs to prevent tangling/soiling			
of belts/straps. Location of pouches to be approved by agency			
Heavy duty seat belt cutter, Sure-lok Part #8705 or equal to			
be included			
Exterior colors used on bus including tire rims to be Ford			
White with maroon stripes. See Appendix 'B'			
· · · ·			
Interior paneling, walls and ceiling are fiberglass or otherwise covered with an easily maintained material. Basic interior			
color to be gray. Dash and instrument panel finished to			
harmonize with overall interior tones. Interior paneling			
minimum thickness 0.150" including substrata			
Handrails, Stanchions & Modesty Panels: Passenger			
assists are full-grip, vertical stanchions or handholds provided			
for safety of standees and of ingress and egress.			
Handhold/stanchions made of 1 1/4" stainless steel tubes.			
Handholds/stanchions properly supported and held			
securely in place with fully-welded, stainless steel corrosion			
resistant, fittings. Vertical stanchion provided at rear of			
passenger door at aisle. Horizontal handhold to extend from			
this stanchion to wall. Door operation will not create hazard.			
Vertical stanchion provided as part of driver's barrier. Left and			
right roof grab rails installed so it's possible to move the full-			
length of coach without losing support. Modesty panels			
extend from 4" - 12" above floor to bottom of window. Finish			
to match interior seat colors. Parallel grab rails of 1 1/4"			
stainless steel installed with adequate knuckle clearance at			
front door to aid boarding/exiting passengers. Installed 1 each			
side, they are not to infringe on clear opening. Rails start at			
bottom step, follow steps to top of step well			
Mirrors : Rosco (or approved equal) fully-adjustable, outside			
right and left hand rear view mirrors shall be 6" by 9". Mirror			
head to be ABS Frame and bracket anodized aluminum or			
power coated steel/aluminum and retractable, break-away-			
type to prevent damage by bus's wash equipment. Right front			
mirror mounted to prevent contact with pedestrian or boarding			
passengers			
Low mount convex mirror furnished below outside mirrors for			
localized vision			
Adequate rear view mirror installed for driver's view of interior		1	
and rear of vehicles. Overhead two-way adjustable mirror			
(minimum 15" x 6") located in front of and over the driver's			
seat above windshield			
Mirror mountings sufficiently rigid to prevent distortion from			
vibration			
Emergency Equipment consists of one 5-pound fire		1	
extinguisher, one 21-unit first aid kit, blood borne pathogen			
kit, and 3 safety triangle reflectors. Emergency equipment			
locked in area easily accessible by driver and will not interfere			
with passengers when not in use			
Vehicle equipped with SEON (or approved equal) 5 Camera			
System including the cameras, DVR, software, cabling,			
wiring, installation of the camera, warranty.			
<u> </u>	I	1	

Specification	Yes	No	Comment
Body and Accessories			
Cameras to be installed on vehicles and be operational prior			
to delivery (See Appendix 'C' for Camera Placement).			
One (1) exterior SEON HD3W03EI20 (or approved equal)			
wedge camera with high resolution for sharp images day and			
night.			
Two (2) interior SEON HD3Q03A20 (or approved equal)			
dome cameras with high resolution for sharp images day and			
night.			
One (1) interior SEON HWQ03A50 (or approved equal)			
dome camera with high resolution for sharp images day and			
night.			
One (1) interior SEON CHW702E20 HD (or approved equal)			
camera with high resolution for sharp images day and night.			
One (1) SRL GA07NP Smart-Reach Lite Wireless Bridge, 2.4			
GHZ, standard antenna with NMO mount, with six (6) feet			
cable and PoE Adapter.			
One (1) Explorer TH6-6-channel DVR WITH 1TH Hard Drive			
(or approved equal) that supports one high-definition video			
channel for detailed surveillance applications such as license			
plates or facial recognition.			
One (1) VMC5V (or approved equal) Commander vehicle			
licensing.			
One (1) vMax View (or approved equal) easy to use software for viewing, archiving, and retrieval of video, and allows for			
easy searching by video clip, alarm, date and time, or even			
GPS location.			
Vehicle equipped with heavy duty backup sensor			
Vehicle equipped with Supra Elante Key Box or equal			
Vehicle equipped with Donation Box Model Number DM1			
Mobility rebates issued to CAC			
Lift Specifications			
Lift platform and mechanism to be Braun NCL1000-2 Century Series (or approved equal). Platform is power-up, gravity-			
down system which is fully-automatic including required			
safety stop at outer edge of platform. Follow			
specifications/operational facts that apply to lift			
Height, lift frame: 66.25"			
Usable platform width: 34"			
Usable platform length: 54"			
Floor to ground travel: 48"			
Entry width: 35"			
Wheelchair lift finished with baked-on power coating which will			
meet a salt spray test of 1,000 hours. Frame and platform			
design tested to a static load of 3,000 pounds, and 1,000			
pounds of continuous lifting capacity			
Lift fully-automatic in operation. Platform folded, unfolded,		1	1
raised and lowered by means of 2 single-acting cylinders only.			
No additional hydraulic/electric actuators necessary for			
operational cycle of lift. Lift equipped with safety feature to			
prevent inadvertent folding when lift is occupied			

Specification	Yes	No	Comment
Lift Specifications			
Lift incorporates a safety barrier on inboard edge of platform			
assembly. Barrier forms transition bridge plate between the			
vehicle floor and platform whenever lift is at vehicle entry			
level. Barrier automatically moves to raised position when			
platform leaves vehicle floor level			
Power lifting system 12-volt electro-hydraulic, operating			
system that is circuit breaker protected, operating 2 single-			
acting hydraulic cylinders. Lift has no chains, cables, ball-			
screw actuators, sprockets or pulleys. Hydraulic system is			
gravity-down design, requiring no limit switches/bypass			
valves to stop downward travel of platform. Operation of unit			
provides smooth, jerk-free ride in up and down directions.			
Hydraulic cylinders utilize pull-type design to reduce hydraulic pressure requirements and minimize potential hydraulic			
leaks/resulting damage to vehicle interior. Gravity-down			
system regulated by pressure-compensating flow control			
valves installed in pump. Externally mounted pressure			
compensating flow control valves not permitted. Platform			
welded steel construction and surface is see-through grating,			
allowing for improved visibility and safe use in icy weather.			
Platform has usable width of 34" and minimum length of 54".			
Sides of platform protected by fixed vertical barriers minimum			
2-1/2" high			
Roll stop barrier on outboard edge of platform is			
mechanically activated to the up position to reduce possibility			
of human error in closing outboard roll stop barrier. Minimum			
upward travel shall be needed to engage safety barrier to its			
up position			
Lift provides complete manual operation of functions by a			
single manual release valve and hand pump. No disassembly			
of actuators necessary to operate the lift manually. Complete manual operation of lift to be accomplished from single			
location at lift			
Lift incorporates dual handrail and platform "occupant-			
restraint" belt system for safety. The "occupant-restraint" belt			
system connects between the 2 handrails. Dual handrails will			
not reduce the usable width of the platform			
Lift controls mounted in lightweight weather-resistant box with			
momentary contact switches. Lift controls durable material			
and will be designed for 1-handed operation. Control box			
attached to a cut resistant cord allowing operation within 7-			
foot radius of lift. Switches labeled with operating instructions.			
Switches backlit. Lift system protected by manual reset circuit			
breaker. Lift will comply with all current ADA and FMV403			
requirements			
Lift door 2-panel door with "L" handle and has 3-point latch			
with key lock. 2 non-ventilating windows that have the same			
percentage of light transmission as other side windows.			
Heavy duty latch for each door that will hold open under any condition			
Size of body opening will in no way limit full operation of lift nor impede its proper maintenance			
An Intermotive (or approved equal) brake interlock system			
provided to ensure that vehicle cannot be moved while lift			
door is open			
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Specification	Yes	No	Comment
Miscellaneous Standards			
The following is to be supplied to CAC at time of delivery or			
prior to delivery: Engine Gasoline Manuals/CDs (2 copies),			
Transmission Co Manuals/CDs (2 copies), Service			
Manuals/CDs (2 copies), Parts Manuals/CDs (1 copy),			
Wheelchair Lift Manuals/CDs (2 copies), Viring Schematic			
Diagram (2 copies),Operators Manuals/CDs (1 per vehicle &			
1 for file)			
Any other manuals (wheelchair tie-downs, air conditioning			
chassis, body, seats, etc.) not included in main parts and			
service manuals will be delivered			
Legal documents delivered with vehicles and address owners		-	
as "Knoxville-Knox County Community Action Committee."			
Proper documentation to acquire license and registration is			
required at time of delivery			
After sale, service continued while vehicles are in-service.		-	
This includes, but is not limited to, service and parts manual			
updates, parts sales, guidance in solving mechanical,			
electrical, or other problems with vehicles. When needed,			
CAC maintenance supervisors to be permitted to call			
manufacturer at expense of CAC for assistance. When			
serious problems persist that habitually interrupt service,			
manufacturer will send a representative to CAC at the			
expense of the manufacturer			
Photographs of the vehicles may be provided to CAC with the			
manufacturer's bid			
Workmanship			
Workmanship throughout vehicles is to conform to highest			
standards of commercially accepted practice for class of			
work, and result in neat/finished appearance. Design of			
body/equipment which manufacturer proposes to furnish is to be such as to provide vehicles of substantial and durable			
construction in all respects			
Welding procedures, welding materials, and qualifications of			
operators, will be in accordance with standards of American			
Society of Testing Materials and the American Welding Society. Welds visible to public to be ground smooth after			
welding to present a smooth, workmanlike appearance.			
Where metal is welded to metal, the contact surface will be			
free of scale, grease, and paint			
Exposed surfaces/edges to be smooth, free from burrs and			
other projections, and neatly finished			
Parts are new; no reconditioned obsolete parts accepted			
Manufacturer to submit with bid, a detailed description and			
specifications of frame structure, roof structure, and body with			
particular reference to materials used			
Motor Vehicle Standards			
Manufacturer to certify that vans comply with all U.S.			
Department of Transportation safety standards for bus			
applicable as of the date of manufacture, and complies with			
all Interstate Commerce Commission requirements for motor			
vans operated in interstate commerce.			
Vans in complete compliance with all requirements of the laws			
of the State of Tennessee for lighting equipment and			
warning/safety devices	1	1	

Specification	Yes	No	Commont
Specification	162	UNI	Comment
Motor Vehicle Standards			
Manufacturer certifies that vans conform to air pollution			
control standards set by Federal Transit Administration for			
motor vehicles to be used on projects by FTA			
Vehicles comply with Americans with Disabilities Act			
requirements effective January 26, 1992 and the FTA transit			
accessibility program. Vehicles being purchased will be part			
of larger fleet of vehicles in demand responsive system, when			
viewed in its entirety ensures to individuals with disabilities a			
level of service equal to that provided to general public.			
Therefore, it is allowable to have removable seating over the			
wheelchair restraint stations. This approach is designed for			
maximum flexibility and allow most efficient dispatching of			
vehicles.			
Tests & Testing		_	
Each complete vehicle/all working and moving parts and			
operating devices tested/put in operating condition by			
manufacturer			
Roofs, windows, windshields and compartment doors of			
vehicles are water tested in approved manner and any leaks			
found are repaired in a workmanlike manner			
Manufacturer will not attach any dealer identification,			
advertising or similar material to vehicles. Prior to acceptance			
of vehicles by CAC, manufacturer will service and adjust			
vehicles for operation to include, as a minimum, the following:			
focusing of lights, vehicle alignment after conversion,			
adjustment of accessories, checking of electrical braking and			
suspension systems, charging of battery, inflation of tires,			
balancing of all wheels, complete lubrication of engine,			
chassis and operating mechanisms with recommended			
grades of lubricants for the ambient temperature at the point			
of delivery, servicing of cooling system with permanent type			
antifreeze and summer coolant for -20oF and servicing			
windshield washer with water and proper additives			
Additional to Certification for the Interim Bus Testing Program			
(49 CFR Part 665) a copy of Test Report on Bus Model to be			
provided by Bus Testing Facility in Altoona			
Delivery			
Based on reasonable production time and with due			
consideration to unforeseen circumstances, CAC expects			
that delivery of the units will be made within 90 days of receipt			
of Purchase Order. If time of delivery cannot be met, indicate			
as an exception on submitted bids with projected time of			
delivery. If delivery time is less than 90 days, state the delivery			
schedule. Delivery time will factor in choosing successful			
bidder who will be awarded contract. Vehicles delivered FOB			
to L.T.Ross Building, 2247 Western Ave., Knoxville,			
Tennessee, 37921			

Specification	Yes	No	Comment
Certification			
Certification of compliance with all applicable Federal			
Motor Vehicle Safety Standards, including Numbers 101,			
102, 103, 104, 105, 106, 107, 108, 111, 112, 113, 116,			
119, 120, 124, 127, 205, 207, 208, 209, 210, 212, 213,			
217, 219, 220, 301 and 302 is required			
Certification that vans offered have been designed,			
manufactured, assembled and tested for passenger			
service, and are suitable for extended service in heavy,			
stop-and-go traffic is required			
Warranty		,	
Manufacturer is to state all terms, conditions, and			
limitations of warranty. Terms, conditions, prices,			
limitations of any optional, extended warranties to be			
stated, including local agents responsible for service			
Minimum warranty for mechanical components of 36			
months/36,000 miles, no deductible. Warranty will fully pay			
for defective workmanship and materials/labor costs			
CAC to have option to purchase extended service (ESP)			
plus warranty protection plan			
Option			
CAC requests option of purchasing up to 12 additional			
vehicles that fulfill these specifications for 360 days after			
bid opening			

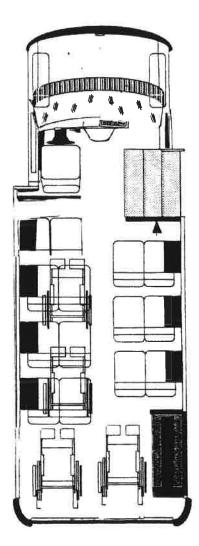
CAC	Knoxville - Knox County
	Knoxville - Knox County Community Action Committee

Helping People. Changing Lives.



Knox County CAC Transit

SEATING CHART



7-Flip Seats for a Total of 14 Passengers

4-Wheelchair Stations

LT Ross Building • 2247 Western Avenue • Knoxville, TN 37921 • Mailing address: PO Box 51650 • Knoxville, TN 37950-1650 Phone: (865) 524-0319 • Fax: (865) 546-9013 • www.knoxseniors.org • www.knoxcac.org