

# STATE OF MICHIGAN ENTERPRISE PROCUREMENT

Department of Technology, Management, and Budget 320 S. Walnut Street 2nd Floor Lansing, MI 48933 P.O. BOX 30026 LANSING, MICHIGAN 48909

# **CONTRACT CHANGE NOTICE**

Change Notice Number 2

to

Contract Number MA23000001329

н	OEKSTRA TRAN	INC	:	Pr Ma	Jeff Tu	rner		MDOT	
o <sup>37</sup>	741 Roger B Chaf	fee			ograr anage				
Grand Rapids MI 49548			CT T		Turner	J3@michigan.gov	v		
<b>IRA</b>	eve Bolin				Ac	Melissa	a Beck		DTMB
	6-299-5170				Contra Iminist	(517) 8	97-1502		
st	olin@hoekstratru	ck.com			rator	beckm3@michigan.gov			
С	V0045588								
			CONTRAC	T S		2V			
Medium Di	ity with Lift and wi	thout Lift Trans	sit Buses						
INITIAL EFFECTIVE DATE INITIAL EXPIRATIO			RATION DATE		INITIAL	. AVAILA	VAILABLE OPTIONS EXPIRATION DA BEFORE		EXPIRATION DATE BEFORE
Aug	ust 10, 2023	August	10, 2025			2 - 12 Months August 10, 2025			August 10, 2025
	PAYME						DELIVERY TIME	FRA	ME
NET 45									
	ALTER	NATE PAYMEN	T OPTIONS				EXTEND	ED F	PURCHASING
	P-Card	Direct Vouche	r (PRC)		□ Oth	ner	Υε	es.	□ No
		ENTS	( - )						
		-							
		DI	ESCRIPTION O	FC	HANGE	NOTICE			
OPTIO	LENGTH	OF OPTION	EXTENSION		LE	NGTH O	TH OF EXTENSION REVISED EXP. D/		REVISED EXP. DATE
$\times$	24 N	Ionths				2 `	Years	August 10. 2027	
		VALUE OF CH		Ξ	ESTIMATED AGGREGATE (		CON	ONTRACT VALUE	
\$55,489,282.00 \$0.00			0.00		\$55,489,282.00				
DESCRIPTION									
Effective May 19, 2025, this contract is exercising option years. The new contract expiration date is August 10, 2027.									
Also updating Contract Administrator to Meliss Beck, Beckm3@michigan.gov, 517-897-1502.									
All other terms, conditions, specifications, and pricing remain the same, per contractor and DTMB Central Procurement agreement and DTMB Central Procurement approval.									



# STATE OF MICHIGAN ENTERPRISE PROCUREMENT

Department of Technology, Management, and Budget 320 S. Walnut Street 2nd Floor Lansing, MI 48933 P.O. BOX 30026 LANSING, MICHIGAN 48909

# **CONTRACT CHANGE NOTICE**

Change Notice Number 1

to

Contract Number MA23000001329

							-			
	HOEK	STRA TRANS	SPORTATION,	INC		₹ ₽	Jeff Tu	ff Turner MDOT		MDOT
3741 Roger B Chaffee Grand Rapids MI 49548		e			rogran anage	517-33	517-335-3282			
			STA	~ -	turerj3	@Michigan.gov				
RAC	Steve I	Bolin			TE	Ad	Yvon E	Dufour		DTMB
CTOF	616-29	9-5170				Contra ministr	(517) 2	249-0455		
	sbolin@	@hoekstratrue	ck.com			ator	dufour	y@michigan.gov		
				<u> </u>			ov.			
					UNTRACT	SUMMAR	κ i			
Medium	ו Duty w	ith Lift and wi	thout Lift Trans	sit Bus	es					
INITIAL EFFECTIVE DATE INITIAL EXPIRATION			RATIO	ON DATE	INITIAL	. AVAILA	ABLE OPTIONS	BLE OPTIONS BEFORE		
	August 10	, 2023	August	10, 202	25		2 - 12	2 - 12 Months August 10, 2025		
		PAYMEN	IT TERMS					DELIVERY TIMEFRAME		
								EVTEND		
		ALIERI	NATE PATIVIEN		IUN5	EXTENDED PORCHASIN			JRCHASING	
	P-Ca	ard 🗌	Direct Vouche	r (PRC	C)	🗌 Oth	☐ Other			🗌 No
MINIMUM		RY REQUIREME	NTS							
			D	ESCRI	PTION OF (	HANGE	NOTICE			
			ENSION	LE	NGTH O	FEXTENSION	R	EVISED EXP. DATE		
CI		VALUE	VALUE OF CH	IANGE		E	STIMATI	ED AGGREGATE	CONT	RACT VALUE
\$55,489,282,00 \$0,00						\$55 489 283	2 00			
φ33,+03,202.00 φ0.00 φ33,403,202.00										
Effectiv	Effective 1/0/2025 pricing on this contract is berefy undeted, per revised Schedule P. Driving All other									
terme	conditic	ozo, priciliy	ations and pri	cina r	emain the	same	Per ve	ndor request or	n I - v T D h	ISING. AII OUIEI IMR
Procure	ement a	annroval	ations and pri	ong i		Jame.		nuor request, ai		
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# **STATE OF MICHIGAN**

Contract No. 23000001329

#### Medium Class of Non-Lift and Lift Transit Buses

# SCHEDULE B PRICING

1. The Contractor must provide a pricing schedule for the proposed Contract Activities using Cost Models below. The pricing schedule should be submitted in Microsoft Excel; however, you may also submit an additional pricing schedule in a non-modifiable format (e.g., PDF). Failure to complete the pricing schedule as requested may result in disqualification of your proposal.

2. Price proposals must include all costs, including but not limited to, any one-time or set-up charges, fees, and potential costs that Contractor may charge the State (e.g., shipping and handling, per piece pricing, and palletizing).

3. The Contractor is encouraged to offer quick payment terms. The number of days must not include processing time for payment to be received by the Contractor's financial institution.

Quick payment terms: \_\_\_\_0 % discount off invoice if paid within \_\_\_\_\_0 days after receipt of invoice.

4. By submitting its proposal, the Contractor certifies that the prices were arrived at independently, and without consultation, communication, or agreement with any other Contractor.

# COST MODEL/EVALUATION FORM MICHIGAN MEDIUM CLASS OF BUSES SPECIFICATION Minimum 7 Years/200,000 Miles

**Instructions:** Complete each section of the following cost model document. If applicable, provide as much detail as possible, in the evaluation portion, by listing product and model names, sizes, materials used, type, etc. Return completed document with your bid package as this document will be primarily referenced during the evaluation process. **Failure to complete this document and return** with your bid package will result in a bid disqualification.

Bidder Company Name: Hoekstra Transportation Inc.						
Bidder Address: 3741 Roger B Chaffee Blvd - Grand Rapids, MI. 49548						
Preparer's	Name:		Steve Bolin			
Inspection 1	Facility:		Hoekstra Transportation Inc.			
Address of Inspection Facility:			3741 Roger B Chaffee Blvd - Grand Rapids, MI. 49548			
Ι	COST	MODEL				
	Qty	Description		Michigan Public Transit Authorities Unit Price (Includes 0.75% Admin Fee)	Extended Total	
		Base Bus Fl	oor Plans – Class One			
А.		Class One -	26 Foot Bus – Vinyl Seat Covers			
1	1	24 passenger	without lift	160,507.85	160,507.85	
2	1	14+2 passen	ger with lift	177,494.30	177,494.30	
3	1	10+3 passen	ger with lift	173,360.53	173,360.53	
В.		Class One-2	26 Foot Bus – Fabric Seat Covers			
1	1	24 passenger	without lift	161,055.93	161,055.93	
2	1	14+2 passen	ger with lift	172,875.92	172,875.92	
3	1	10+3 passen	ger with lift	173,771.59	173,771.59	
C.		Class One –	29 Foot Bus – Vinyl Seat Covers			
1	1	28 passenger	28 passenger without lift		166,929.65	
2	1	18+2 passenger with lift		181,176.71	181,176.71	
3	1	14+3 passen	ger with lift	181,614.97	181,614.97	
4	1	10+4 passen	ger with lift	183,871.77	183,871.77	
D.		Class One-2	29 Foot Bus – Fabric Seat Covers			
1	1	28 passenger	without lift	167,569.42	167,569.42	
2	1	18+2 passen	ger with lift	181,724.79	181,724.79	

3	1	14+3 passenger with lift	177,041.93	177,041.93
4	1	10+4 passenger with lift	179,298.73	179,298.73
Е.		Class One – 32 Foot Bus – Vinyl Seat Covers		
1	1	32 passenger without lift	170,612.07	170,612.07
2	1	22+2 passenger with lift	180,797.89	180,797.89
3	1	18+3 passenger with lift	185,296.38	185,296.38
4	1	14+4 passenger with lift	187,553.18	187,553.18
F.		Class One – 32 Foot Bus – Fabric Seat Covers		
1	1	32 passenger without lift	171,342.50	171,342.50
2	1	22+2 passenger with lift	181,437.65	181,437.65
3	1	18+3 passenger with lift	185,889.80	185,889.80
4	1	14+4 passenger with lift	188,146.60	188,146.60
		SUBTOTAL (Class One Buses A-F)		3,889,370.13
		Base Bus Floor Plans – Class Two	Michigan Public Transit Authorities Unit Price (Includes 0.75% Admin Fee)	
G.		Class Two - 26 Foot Bus – Vinyl Seat Covers		
1	1	24 passenger without lift	183,398.25	183,398.25
2	1	14+2 passenger with lift	198,966.14	198,966.14
3	1	10+3 passenger with lift	194,398.13	194,398.13
H.		Class Two- 26 Foot Bus – Fabric Seat Covers		
1	1	24 passenger without lift	183,946.33	183,946.33
2	1	14+2 passenger with lift	194,347.76	194,347.76
3	1	10+3 passenger with lift	194,809.19	194,809.19
I.		Class Two – 29 Foot Bus – Vinyl Seat Covers		
1	1	28 passenger without lift	187,080.66	187,080.66
2	1	18+2 passenger with lift	202,528.66	202,528.66
3	1	14+3 passenger with lift	203,154.32	203,154.32
4	1	10+4 passenger with lift	205,479.63	205,479.63
J.		Class Two- 29 Foot Bus – Fabric Seat Covers		
1	1	28 passenger without lift	187,719.42	187,719.42
2	1	18+2 passenger with lift	203,076.74	203,076.74
3	1	14+3 passenger with lift	198,582.28	198,582.28
4	1	10+4 passenger with lift	200,906.58	200,906.58
К.		Class Two- 32 Foot Bus – Vinyl Seat Covers		
1	1	32 passenger without lift	190,565.60	190,565.60
2	1	22+2 passenger with lift	201,057.71	201,057.71
3	1	18+3 passenger with lift	206,640.27	206,640.27
4	1	14+4 passenger with lift	208,965.58	208,965.58
L.		Class Two- 32 Foot Bus – Fabric Seat Covers		
1	1	32 passenger without lift	191,297.05	191,297.05
2	1	22+2 passenger with lift	202,713.03	202,713.03

3	1	18+3 passenger with lift	207,234.69	207,234.69
4	1	14+4 passenger with lift	209,558.99	209,558.99
		SUBTOTAL (class two buses G-L)		4,356,426.98
		TOTAL (class one and two buses A-L)		8,245,797.11
М.		Equipment Options		
1	1	Air Conditioning, Split unit <b>26 foot</b>	\$18,639.00	\$18,639.00
2	1	Air Conditioning, Split unit <b>29 foot</b>	\$22,246.00	\$22,246.00
3	1	Air Conditioning, Split unit <b>32 foot</b>	\$22,246.00	\$22,246.00
4	1	Rooftop AC with heat, 26 foot	\$23,827.00	\$23,827.00
5	1	Rooftop AC with heat, <b>29 foot</b>	\$37,832.00	\$37,832.00
6	1	Rooftop AC with heat, <b>32 foot</b>	\$37,832.00	\$37,832.00
7	1	Auxiliary Air Heater -Gas	\$5,630.00	\$5,630.00
8	1	Auxiliary Air Heater & Block Heater (in lieu of Aux Coolant Heater)	\$542.00	\$542.00
9	1	Destination Sign – Roller/Curtain	\$3,023.00	\$3,023.00
10	1	Destination Sign - LED	\$6,861.00	\$6,861.00
11	1	Donation box (in lieu of standard farebox – deduct)	-\$1,531.00	-\$1,531.00
12	1	Farebox Electrical Prep Only (less standard farebox- deduct)	-\$2,015.00	-\$2,015.00
13	1	Limited Slip Differential (Class I Only)	\$0.00	\$0.00
14	1	Limited Slip Differential (Class II Only)	\$907.00	\$907.00
15	1	Rear emergency exit window (deduct)	-\$1,703.00	-\$1,703.00
16	1	Paint - One stripe	\$3,239.00	\$3,239.00
17	1	Paint - Roof second color	\$3,023.00	\$3,023.00
18	1	Paint - Different Full body	\$9,863.00	\$9,863.00
19	1	Reflective Vinyl Belt Stripe	\$1,511.00	\$1,511.00
20	1	Lift – Type I 800# (in lieu of standard lift - deduct)	-\$504.00	-\$504.00
21	1	Lift – Type II – Powered outer barrier (in lieu of standard lift)	-\$91.00	-\$91.00
22	1	Lift - Folding Platform (in lieu of standard lift)	\$0.00	\$0.00
23	1	Alternate Standard Lift Manufacturer	\$0.00	\$0.00
24	1	Wheelchair Single Point Securement System (in lieu of one standard L- Track position)	\$605.00	\$605.00
25	1	Additional Wheelchair Position – L Track System	\$1,380.00	\$1,380.00
26	1	Wheelchair Platform Securement System	\$11,100.00	\$11,100.00
27	1	Additional Wheelchair Position – Single Point System	\$1,985.00	\$1,985.00
28	1	Two-way radio prep package	\$433.00	\$433.00
29	1	Radio - AM/FM stereo system w/ four speakers	\$544.00	\$544.00
30	1	Public Address (PA) System Only w/ two speakers	\$212.00	\$212.00
31	1	Radio – AM/FM/PA System w/ four speakers	\$504.00	\$504.00
32	1	Radio – Speaker only (additional)	\$20.00	\$20.00
33	1	Entrance Stepwell Heater	\$141.00	\$141.00
34	1	Alternate Elegring Manufacture	\$12,548.00	\$12,548.00
35	1	Alternate Flooring Manufacturer	\$670.00	\$670.00
50 27	1	Seating Rear five place passenger Vinyl	\$11,818.00	\$11,818.00
3/	1	Seating - Rear five place passenger - Fabric	\$1,813.00 \$1.012.00	\$1,813.00 \$1,813.00
38	1	Stating = Near rive place passeliger - raune	\$1,813.00	\$1,813.00

39	1	Seating – Forward Facing Standard Double Seat - Vinyl	\$1,389.00	\$1,389.00
40	1	Seating – Forward Facing Standard Double Seat - Fabric	\$1,440.00	\$1,440.00
41	1	Seating – Forward Facing Standard Double Seat – Vinyl (Deduct)	-\$1,389.00	-\$1,389.00
42	1	Seating – Forward Facing Standard Double Seat – Fabric (Deduct)	-\$1,440.00	-\$1,440.00
43	1	Seating – Forward Facing Double Fold-A-Way - Vinyl	\$2,367.00	\$2,367.00
44	1	Seating – Forward Facing Double Fold-A-Way - Fabric	\$2,417.00	\$2,417.00
45	1	Seating – Forward Facing Double Fold-A-Way – Vinyl (Deduct)	-\$2,367.00	-\$2,367.00
46	1	Seating – Forward Facing Double Fold-A-Way –Fabric (Deduct)	-\$2,417.00	-\$2,417.00
47	1	Seating – Double Flip-up – Vinyl	\$1,923.00	\$1,923.00
48	1	Seating – Double Flip-up - Fabric	\$1,974.00	\$1,974.00
49	1	Seating – Double Flip-up – Vinyl (Deduct)	-\$1,924.00	-\$1,924.00
50	1	Seating – Double Flip-up – Fabric (Deduct)	-\$1,974.00	-\$1,974.00
51	1	Seating – Double w/Single Integrated Child Seat (ICS) - Vinyl	\$2,452.00	\$2,452.00
52	1	Seating – Double w/Single Integrated Child Seat (ICS) – Fabric	\$2,452.00	\$2,452.00
53	1	Seating – Double w/Single Integrated Child Seat (ICS) – Vinyl (Deduct)	-\$2,452.00	-\$2,452.00
54	1	Seating – Double w/Single Integrated Child Seat (ICS) – Fabric (Deduct)	-\$2,452.00	-\$2,452.00
55	1	Seating – Double w/Double Integrated Child Seat (ICS) - Vinyl	\$3,102.00	\$3,102.00
56	1	Seating – Double w/Double Integrated Child Seat (ICS) - Fabric	\$3,152.00	\$3,152.00
57	1	Driver's Power Seat Base (Class One Only)	\$0.00	\$0.00
58	1	Alt. Engine – Gas (Class One Only) – Deduct	-\$13,557.00	-\$13,557.00
59	1	Alt. Engine - Bi-fuel Gas/Propane (Class One Only)	\$14,659.00	\$14,659.00
60	1	Alt. Engine – Propane (Class One Only)	\$29,066.00	\$29,066.00
61	1	Alt. Engine – CNG (Class One Only)	\$29,721.00	\$29,721.00
62	1	Stop Request System	\$1,018.00	\$1,018.00
63	1	Back-up Sensor System	\$610.00	\$610.00
64	1	Video Surveillance – Two Camera System	\$3,449.00	\$3,449.00
65	1	Video Surveillance - Four Camera System	\$4,268.00	\$4,268.00
66	1	Video Surveillance - Six Camera System	\$5,038.00	\$5,038.00
67	1	Video Surveillance - DVR System Upgrade	\$1,536.00	\$1,536.00
68	1	Video Surveillance – Extra Interior Cameras	\$389.00	\$389.00
69	1	Video Surveillance – Extra Exterior Cameras	\$389.00	\$389.00
70	1	Video Surveillance Preparation Package	\$0.00	\$0.00
71	1	Hydraulic Brakes in lieu or Air Brakes (Class II Only)	-\$665.00	-\$665.00
72	1	Spare Tire – Steer Axle	\$1,411.00	\$1,411.00
73	1	Spare Tire – Drive Axle	\$1,411.00	\$1,411.00
74	1	Entry Door Grab Handles	\$252.00	\$252.00
75	1	Wheelchair Lift Plexglass Barriers	\$141.00	\$141.00
76	1	Back-up Camera System \$0.00		\$0.00
77	1	Bike Rack		\$3,813.00
78	1	24 Inch Seat Belt Extensions	\$55.00	\$55.00
79	1	Class I Driver's Side Runnning Board	\$475.00	\$475.00
		SUBTOTAL (Options)		326,695.00
GRAND TOTA	AL EVAI	LUATION PRICE OF A, B, C, D, E, F, G, H, I, J, K, L, and M ABOVE		8,572,492.11
Refer to "Standard Contract Terms", section 7, regarding administration fee.				



# **STATE OF MICHIGAN ENTERPRISE PROCUREMENT**

**STATE OF MICHIGAN** DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET 320 South Walnut, LANSING, MI 48933 P.O. BOX 30026, LANSING, MI 48909

# NOTICE OF CONTRACT

NOTICE OF CONTRACT NO. 230000001329

between

THE STATE OF MICHIGAN

and

Hoekstra Transportation, Inc.

- 3741 Roger B Chaffee
- Grand Rapids, MI 49548
- CONTRACTOR Steve Bolin
  - (616) 299-5170

sbolin@hoekstratruck.com

CV0045588

	r J	Jeff Turner	MDOT			
	rogran anage	(517) 335-3282				
		Turnerj3@michigan.gov				
ST/ ontract	t ator	Yvon Dufour	DTMB			
	ontrac	(517) 249-0455				
	Adm	dufoury@michigan.gov				

CONTRACT SUMMARY					
DESCRIPTION: Medium D	uty with Lift and with	out Lift Transit Bus	ses		
	-				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DA CHANGE(S) NO	TE BEFORE FED BELOW	
8/10/2023	8/10/2025	Two, 1-year options			
PAYMENT	TERMS	DEL	IVERY TIMEFRAME		
Net 45					
ALTERNATE PAYMENT OPTIONS	S		EXTENDED PURCHASING		
□ P-card □	Payment Request (PRC	) 🗌 Other	⊠ Yes	🗆 No	
MINIMUM DELIVERY REQUIREM	ENTS				
MISCELLANEOUS INFORMATION	N				
THIS IS NOT AN ORDER: This Contract Agreement is awarded on the basis of our inquiry bearing the solicitation #230000001762. Orders for delivery will be issued directly by the Department in accordance to Schedule A, section 5.1 Authorizing Document.					
ESTIMATED CONTRACT VALUE AT TIME OF EXECUTION \$55,489,282.00					

# FOR THE CONTRACTOR:

Hoekstra Transportation, Inc. Company Name

Authorized Agent Signature

Authorized Agent (Print or Type)

Date

FOR THE STATE:

Signature

Pamela Platte, Enterprise Sourcing Director Name & Title

DTMB - Procurement

Date



# STANDARD CONTRACT TERMS

This STANDARD CONTRACT ("**Contract**") is agreed to between the State of Michigan (the "**State**") and Hoekstra Transportation ("**Contractor**"), a Michigan Corporation. This Contract is effective on August 10, 2023 ("**Effective Date**"), and unless terminated, will expire on August 10, 2025 (the "**Term**").

This Contract may be renewed for up to 2 one-year periods. Renewal is at the sole discretion of the State and will automatically extend the Term of this Contract. The State will document its exercise of renewal options via Contract Change Notice.

The parties agree as follows:

 Duties of Contractor. Contractor must perform the services and provide the deliverables (the "Contract Activities") described in a Statement of Work, the initial Statement of Work is attached as Schedule A – Statement of Work. An obligation to provide delivery of any commodity is considered a service and is a Contract Activity.

Contractor must furnish all labor, equipment, materials, and supplies necessary for the performance of the Contract Activities unless otherwise specified in a Statement of Work.

Contractor must: (a) perform the Contract Activities in a timely, professional, safe, and workmanlike manner consistent with standards in the trade, profession, or industry; (b) meet or exceed the performance and operational standards, and specifications of the Contract; (c) provide all Contract Activities in good quality, with no material defects; (d) not interfere with the State's operations; (e) obtain and maintain all necessary licenses, permits or other authorizations necessary for the performance of the Contract; (f) cooperate with the State, including the State's quality assurance personnel, and any third party to achieve the objectives of the Contract; (g) return to the State any State-furnished equipment or other resources in the same condition as when provided when no longer required for the Contract; (h) assign to the State any claims resulting from state or federal antitrust violations to the extent that those violations concern materials or services supplied by third parties toward fulfillment of the Contract; (i) comply with all State physical and IT security policies and standards which will be made available upon request; and (j) provide the State priority in performance of the Contract except as mandated by federal disaster response requirements. Any breach under this paragraph is considered a material breach.

Contractor must also be clearly identifiable while on State property by wearing identification issued by the State, and clearly identify themselves whenever making contact with the State.

2. Notices. All notices and other communications required or permitted under this Contract must be in writing and will be considered given and received: (a) when verified by written receipt if sent by courier; (b) when actually received if sent by mail without verification of receipt; or (c) when verified by automated receipt or electronic logs if sent by facsimile or email.



If to State:	If to Contractor:
See Contract Administrator information shown below.	Steve Bolin – Hoekstra Transportation Inc. 3941 Roger B. Chaffee Blvd. Grand Rapids, MI. 49548 SBolin@HoekstraInc.com (616) 389-1130

 Contract Administrator. The Contract Administrator, or the individual duly authorized for each party, is the only person authorized to modify any terms of this Contract, and approve and execute any change under this Contract (each a "Contract Administrator"):

State:	Contractor:
Yvon Dufour 300-320 South Walnut Street, Elliot Larsen Building, <sup>2nd</sup> Floor Lansing, MI 48933 <u>dufoury@michigan.gov</u> (517) 249-0455	Steve Bolin – Hoekstra Transportation Inc. 3941 Roger B. Chaffee Blvd. Grand Rapids, MI. 49548 SBolin@HoekstraInc.com (616) 389-1130

4. **Program Manager.** The Program Manager for each party will monitor and coordinate the day-to-day activities of the Contract (each a "**Program Manager**"):

State:	Contractor:
Jeff Turner	Steve Bolin – Hoekstra Transportation Inc.
425 W Ottawa St	3941 Roger B. Chaffee Blvd.
Lansing, MI 48908	Grand Rapids, MI. 49548
<u>turnerj3@michigan.gov</u>	SBolin@HoekstraInc.com
517-335-1700	(616) 389-1130

5. Performance Guarantee. Contractor must at all times have financial resources sufficient, in the opinion of the State, to ensure performance of the Contract and must provide proof upon request. The State may require a performance bond (as specified in a Statement of Work) if, in the opinion of the State, it will ensure performance of the Contract.

# 6. Insurance Requirements.

#### See Schedule C

7. Administrative Fee and Reporting. Contractor must pay an administrative fee of .75% on all payments made to Contractor under the Contract including transactions with the State (including its departments, divisions, agencies, offices, and commissions), MiDEAL members, and other states (including governmental subdivisions and authorized entities). Administrative fee payments must be made online by check or credit card at: <u>https://www.thepayplace.com/mi/dtmb/adminfee</u>

Contractor must submit an itemized purchasing activity report, which includes at a minimum, the name of the purchasing entity and the total dollar volume in sales. Reports should be mailed to MiDeal@michigan.gov.



The administrative fee and purchasing activity report are due within 30 calendar days from the last day of each calendar quarter.

8. Extended Purchasing Program. This contract is extended to MiDEAL members. MiDEAL members include local units of government, school districts, universities, community colleges, and nonprofit hospitals. A current list of MiDEAL members is available at <u>www.michigan.gov/mideal</u>.

In addition, 30 days after the effective date of this contract, other States (including governmental subdivisions and authorized entities) are permitted to separately contract with the Contractor for the purchase of buses using the Technical Specifications and Pricing in this Contract, by way of a separate agreement between any such State(s) and Contractor. The separate contract(s) between State(s) and Contractor(s) allows for modifications upon mutual agreement by both parties. Any such separate agreement that Contractor may enter into does not alter this Contract in any way, and the State of Michigan does not become a party to any such agreement and does not assume any liability or responsibilities pertaining to any such separate agreement. With respect to any such contract, Contractor will pay the State of Michigan .75% of all amounts Contractor invoices or bills under that separate contract, regardless of whether Contractor is paid for such invoiced amounts. Contractor will make such payments within 30 calendar days from the last day of each calendar quarters.

Contractor must submit invoices to, and receive payment from, extended purchasing program members on a direct and individual basis.

- **9.** Relationship of the Parties. The relationship between the parties is that of independent contractors. Contractor, its employees, and agents will not be considered employees of the State. No partnership or joint venture relationship is created by virtue of this Contract. Contractor, and not the State, is responsible for the payment of wages, benefits and taxes of Contractor's employees and any subcontractors. Prior performance does not modify Contractor's status as an independent contractor. Neither party has authority to contract for nor bind the other party in any manner whatsoever.
- **10. Intellectual Property Rights.** If a Statement of Work requires Contractor to create any intellectual property, Contractor hereby acknowledges that the State is and will be the sole and exclusive owner of all right, title, and interest in the Contract Activities and all associated intellectual property rights, if any. Such Contract Activities are works made for hire as defined in Section 101 of the Copyright Act of 1976. To the extent any Contract Activities and related intellectual property do not qualify as works made for hire under the Copyright Act, Contractor will, and hereby does, immediately on its creation, assign, transfer and otherwise convey to the State, irrevocably and in perpetuity, throughout the universe, all right, title and interest in and to the Contract Activities, including all intellectual property rights therein.
- **11. Subcontracting.** Contractor may not delegate any of its obligations under the Contract without the prior written approval of the State. Contractor must notify the State at least 90 calendar days before the proposed delegation and provide the State



any information it requests to determine whether the delegation is in its best interest. If approved, Contractor must: (a) be the sole point of contact regarding all contractual matters, including payment and charges for all Contract Activities; (b) make all payments to the subcontractor; and (c) incorporate the terms and conditions contained in this Contract in any subcontract with a subcontractor. Contractor remains responsible for the completion of the Contract Activities, compliance with the terms of this Contract, and the acts and omissions of the subcontractor. The State, in its sole discretion, may require the replacement of any subcontractor.

- **12. Staffing.** The State's Contract Administrator may require Contractor to remove or reassign personnel providing services by providing a notice to Contractor.
- **13. Background Checks.** Pursuant to Michigan law, all agencies subject to IRS Pub. 1075 are required to ask the Michigan State Police to perform fingerprint background checks on all employees, including Contractor and Subcontractor employees, who may have access to any database of information maintained by the federal government that contains confidential or personal information, including, but not limited to, federal tax information. Further, pursuant to Michigan law, any agency described above is prohibited from providing Contractors or Subcontractors with the result of such background check. For more information, please see Michigan Public Act 427 of 2018. Upon request, or as may be specified in a Statement of Work, Contractor must perform background checks on all employees and subcontractors and its employees prior to their assignment. The scope is at the discretion of the State and documentation must be provided as requested. Contractor is responsible for all costs associated with the requested background checks. The State, in its sole discretion, may also perform background checks.
- 14. Assignment. Contractor may not assign this Contract to any other party without the prior approval of the State. Upon notice to Contractor, the State, in its sole discretion, may assign in whole or in part, its rights or responsibilities under this Contract to any other party. If the State determines that a novation of the Contract to a third party is necessary, Contractor will agree to the novation and provide all necessary documentation and signatures.
- 15. Change of Control. Contractor will notify the State, within 30 days of any public announcement or otherwise once legally permitted to do so, of a change in Contractor's organizational structure or ownership. For purposes of this Contract, a change in control means any of the following: (a) a sale of more than 50% of Contractor's stock; (b) a sale of substantially all of Contractor's assets; (c) a change in a majority of Contractor's board members; (d) consummation of a merger or consolidation of Contractor with any other entity; (e) a change in ownership through a transaction or series of transactions; (f) or the board (or the stockholders) approves a plan of complete liquidation. A change of control does not include any consolidation or merger effected exclusively to change the domicile of Contractor, or any transaction or series of transactions principally for bona fide equity financing purposes.

In the event of a change of control, Contractor must require the successor to assume this Contract and all of its obligations under this Contract.



- **16. Ordering.** Contractor is not authorized to begin performance until receipt of authorization as identified in a Statement of Work.
- 17. Acceptance. Contract Activities are subject to inspection and testing by the State within 30 calendar days of the State's receipt of them ("State Review Period"), unless otherwise provided in a Statement of Work. If the Contract Activities are not fully accepted by the State, the State will notify Contractor by the end of the State Review Period that either: (a) the Contract Activities are accepted but noted deficiencies must be corrected; or (b) the Contract Activities are rejected. If the State finds material deficiencies, it may: (i) reject the Contract Activities without performing any further inspections; (ii) demand performance at no additional cost; or (iii) terminate this Contract in accordance with Section 24, Termination for Cause.

Within 10 business days from the date of Contractor's receipt of notification of acceptance with deficiencies or rejection of any Contract Activities, Contractor must cure, at no additional cost, the deficiency and deliver unequivocally acceptable Contract Activities to the State. If acceptance with deficiencies or rejection of the Contract Activities impacts the content or delivery of other non-completed Contract Activities, the parties' respective Program Managers must determine an agreed to number of days for re-submission that minimizes the overall impact to the Contract. However, nothing herein affects, alters, or relieves Contractor of its obligations to correct deficiencies in accordance with the time response standards set forth in this Contract.

If Contractor is unable or refuses to correct the deficiency within the time response standards set forth in this Contract, the State may cancel the order in whole or in part. The State, or a third party identified by the State, may perform the Contract Activities and recover the difference between the cost to cure and the Contract price plus an additional 10% administrative fee.

- **18. Delivery.** Contractor must deliver all Contract Activities F.O.B. destination, within the State premises with transportation and handling charges paid by Contractor, unless otherwise specified in a Statement of Work. All containers and packaging become the State's exclusive property upon acceptance.
- 19. Risk of Loss and Title. Until final acceptance, title and risk of loss or damage to Contract Activities remains with Contractor. Contractor is responsible for filing, processing, and collecting all damage claims. The State will record and report to Contractor any evidence of visible damage. If the State rejects the Contract Activities, Contractor must remove them from the premises within 10 calendar days after notification of rejection. The risk of loss of rejected or non-conforming Contract Activities remains with Contractor. Rejected Contract Activities not removed by Contractor within 10 calendar days will be deemed abandoned by Contractor, and the State will have the right to dispose of it as its own property. Contractor must reimburse the State for costs and expenses incurred in storing or effecting removal or disposition of rejected Contract Activities.
- **20. Warranty Period.** The warranty period, if applicable, for Contract Activities is a fixed period commencing on the date specified in a Statement of Work. If the Contract Activities do not function as warranted during the warranty period, the State may return such non-conforming Contract Activities to the Contractor for a full refund.



**21. Invoices and Payment.** Invoices must conform to the requirements communicated from time-to-time by the State. All undisputed amounts are payable within 45 days of the State's receipt. Contractor may only charge for Contract Activities provided as specified in a Statement of Work. Invoices must include an itemized statement of all charges. The State is exempt from State sales tax for direct purchases and may be exempt from federal excise tax, if Services purchased under this Agreement are for the State's exclusive use. Notwithstanding the foregoing, all fees are exclusive of taxes, and Contractor is responsible for all sales, use and excise taxes, and any other similar taxes, duties and charges of any kind imposed by any federal, state, or local governmental entity on any amounts payable by the State under this Contract.

The State has the right to withhold payment of any disputed amounts until the parties agree as to the validity of the disputed amount. The State will notify Contractor of any dispute within a reasonable time. Payment by the State will not constitute a waiver of any rights as to Contractor's continuing obligations, including claims for deficiencies or substandard Contract Activities. Contractor's acceptance of final payment by the State constitutes a waiver of all claims by Contractor against the State for payment under this Contract, other than those claims previously filed in writing on a timely basis and still disputed.

The State will only disburse payments under this Contract through Electronic Funds Transfer (EFT). Contractor must register with the State at <u>http://www.michigan.gov/SIGMAVSS</u> to receive electronic fund transfer payments. If Contractor does not register, the State is not liable for failure to provide payment. Without prejudice to any other right or remedy it may have, the State reserves the right to set off at any time any amount then due and owing to it by Contractor against any amount payable by the State to Contractor under this Contract.

Excluding federal government charges and terms, Contractor warrants and agrees that each of the fees, economic or product terms or warranties granted pursuant to this Contract are comparable to or better than the equivalent fees, economic or product term or warranty being offered to any commercial or government customer (including any public educational institution within the State of Michigan) of Contractor. If Contractor enters into any arrangements with another customer of Contractor to provide the products or services, available under this Contract, under more favorable prices, as the prices may be indicated on Contractor's current U.S. and International price list or comparable document, then this Contract will be deemed amended as of the date of such other arrangements to incorporate those more favorable prices, and Contractor will immediately notify the State of such fee and formally memorialize the new pricing in a change notice.

22. Liquidated Damages. Liquidated damages, if applicable, will be assessed as described in a Statement of Work. The parties understand and agree that any liquidated damages (which includes but is not limited to applicable credits) set forth in this Contract are reasonable estimates of the State's damages in accordance with applicable law. The parties acknowledge and agree that Contractor could incur liquidated damages for more than 1 event. The assessment of liquidated damages will not constitute a waiver or release of any other remedy the State may have under this Contract for Contractor's breach of this Contract, including without limitation, the



State's right to terminate this Contract for cause under Section 24 and the State will be entitled in its discretion to recover actual damages caused by Contractor's failure to perform its obligations under this Contract. However, the State will reduce such actual damages by the amounts of liquidated damages received for the same events causing the actual damages. Amounts due the State as liquidated damages may be set off against any fees payable to Contractor under this Contract, or the State may bill Contractor as a separate item and Contractor will promptly make payments on such bills.

- **23. Stop Work Order.** The State may suspend any or all activities under the Contract at any time. The State will provide Contractor a written stop work order detailing the suspension. Contractor must comply with the stop work order upon receipt. Within 90 calendar days, or any longer period agreed to by Contractor, the State will either: (a) issue a notice authorizing Contractor to resume work, or (b) terminate the Contract or delivery order. The State will not pay for Contract Activities, Contractor's lost profits, or any additional compensation during a stop work period.
- 24. Termination for Cause. (a) The State may terminate this Contract for cause, in whole or in part, if Contractor, as determined by the State: (i) endangers the value, integrity, or security of any facility, data, or personnel; (ii) becomes insolvent, petitions for bankruptcy court proceedings, or has an involuntary bankruptcy proceeding filed against it by any creditor; (iii) engages in any conduct that may expose the State to liability; (iv) breaches any of its material duties or obligations under this Contract; or (v) fails to cure a breach within the time stated by the State in a notice of breach, if in its sole discretion the State has chosen to provide a time to cure. Any reference to specific breaches being material breaches within this Contract will not be construed to mean that other breaches are not material.

(b) If the State terminates this Contract under this Section, the State will issue a termination notice specifying whether Contractor must: (i) cease performance immediately. Contractor must submit all invoices for Contract Activities accepted by the State within 30 days of the date of termination. Failure to submit an invoice within that timeframe will constitute a waiver by Contractor for any amounts due to Contactor for Contract Activities accepted by the State under this Contract or (ii) continue to perform for a specified period. If it is later determined that Contractor was not in breach of the Contract, the termination will be deemed to have been a Termination for Convenience, effective as of the same date, and the rights and obligations of the parties will be limited to those provided in Section 25, Termination for Convenience.

The State will only pay for amounts due to Contractor for Contract Activities accepted by the State on or before the date of termination, subject to the State's right to set off any amounts owed by the Contractor for the State's reasonable costs in terminating this Contract. Contractor must promptly reimburse to the State any fees prepaid by the State prorated to the date of such termination, including any prepaid fees. The Contractor must pay all reasonable costs incurred by the State in terminating this Contract for cause, including administrative costs, attorneys' fees, court costs, transition costs, and any costs the State incurs to procure the Contract Activities from other sources.



- **25. Termination for Convenience**. The State may immediately terminate this Contract in whole or in part without penalty and for any reason or no reason, including but not limited to, appropriation or budget shortfalls. The termination notice will specify whether Contractor must: (a) cease performance of the Contract Activities immediately. Contractor must submit all invoices for Contract Activities accepted by the State within 30 days of the date of termination. Failure to submit an invoice within that timeframe will constitute a waiver by Contractor for any amounts due Contractor for Contract Activities accepted by the State under this Contract, or (b) continue to perform the Contract Activities in accordance with Section 26, Transition Responsibilities. If the State terminates this Contract for Convenience, the State will pay all reasonable costs, as determined by the State, for State approved Transition Responsibilities to the extent the funds are available.
- **26. Transition Responsibilities.** Upon termination or expiration of this Contract for any reason, Contractor must, for a period of time specified by the State (not to exceed 90 calendar days), provide all reasonable transition assistance requested by the State, to allow for the expired or terminated portion of the Contract Activities to continue without interruption or adverse effect, and to facilitate the orderly transfer of such Contract Activities to the State or its designees. Such transition assistance may include, but is not limited to: (a) continuing to perform the Contract Activities at the established Contract rates; (b) taking all reasonable and necessary measures to transition performance of the work, including all applicable Contract Activities, training, equipment, software, leases, reports and other documentation, to the State or the State's designee; (c) transferring title in and delivering to the State, at the State's discretion, all completed or partially completed deliverables prepared under this Contract as of the Contract termination date; and (d) preparing an accurate accounting from which the State and Contractor may reconcile all outstanding accounts (collectively, "Transition Responsibilities"). This Contract will automatically be extended through the end of the transition period.
- 27. Return of State Property. Upon termination or expiration of this Contract for any reason, Contractor must take all necessary and appropriate steps, or such other action as the State may direct, to preserve, maintain, protect, or return to the State all materials, data, property, and confidential information provided directly or indirectly to the Contractor by any entity, agent, vendor, or employee of the State.
- **28.** Indemnification. Contractor must defend, indemnify and hold the State, its departments, divisions, agencies, offices, commissions, officers, and employees harmless, without limitation, from and against any and all actions, claims, losses, liabilities, damages, costs, attorney fees, and expenses (including those required to establish the right to indemnification), arising out of or relating to: (a) any breach by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable) of any of the promises, agreements, representations, warranties, or insurance requirements contained in this Contract; (b) any infringement, misappropriation, or other violation of any intellectual property right or other right of any third party; (c) any bodily injury, death, or damage to real or tangible personal property occurring wholly or in part due to action or inaction by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable); and (d) any acts or omissions of



Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable).

The State will notify Contractor in writing if indemnification is sought; however, failure to do so will not relieve Contractor, except to the extent that Contractor is materially prejudiced. Contractor must, to the satisfaction of the State, demonstrate its financial ability to carry out these obligations.

The State is entitled to: (i) regular updates on proceeding status; (ii) participate in the defense of the proceeding; (iii) employ its own counsel; and to (iv) retain control of the defense, at its own cost and expense, if the State deems necessary. Contractor will not, without the State's prior written consent (not to be unreasonably withheld), settle, compromise, or consent to the entry of any judgment in or otherwise seek to terminate any claim, action, or proceeding.

Any litigation activity on behalf of the State, or any of its subdivisions under this Section, must be coordinated with the Department of Attorney General. An attorney designated to represent the State may not do so until approved by the Michigan Attorney General and appointed as a Special Assistant Attorney General.

The State is constitutionally prohibited from indemnifying Contractor or any third parties.

- **29.** Infringement Remedies. If, in either party's opinion, any piece of equipment, software, commodity, or service supplied by Contractor or its subcontractors, or its operation, use or reproduction, is likely to become the subject of a copyright, patent, trademark, or trade secret infringement claim, Contractor must, at its expense: (a) procure for the State the right to continue using the equipment, software, commodity, or service, or if this option is not reasonably available to Contractor, (b) replace or modify the same so that it becomes non-infringing; or (c) accept its return by the State with appropriate credits to the State against Contractor's charges and reimburse the State for any losses or costs incurred as a consequence of the State ceasing its use and returning it.
- 30. Limitation of Liability and Disclaimer of Damages. IN NO EVENT WILL THE STATE'S AGGREGATE LIABILITY TO CONTRACTOR UNDER THIS CONTRACT, REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR BY STATUTE OR OTHERWISE, FOR ANY CLAIM RELATED TO OR ARISING UNDER THIS CONTRACT, EXCEED THE MAXIMUM AMOUNT OF FEES PAYABLE UNDER THIS CONTRACT. The State is not liable for consequential, incidental, indirect, or special damages, regardless of the nature of the action.
- 31. Disclosure of Litigation, or Other Proceeding. Contractor must notify the State within 14 calendar days of receiving notice of any litigation, investigation, arbitration, or other proceeding (collectively, "Proceeding") involving Contractor, a subcontractor, or an officer or director of Contractor or subcontractor, that arises during the term of the Contract, including: (a) a criminal Proceeding; (b) a parole or probation Proceeding; (c) a Proceeding under the Sarbanes-Oxley Act; (d) a civil Proceeding involving: (1) a claim that might reasonably be expected to adversely affect Contractor's viability or financial stability; or (2) a governmental or public



entity's claim or written allegation of fraud; or (3) any complaint filed in a legal or administrative proceeding alleging the Contractor or its subcontractors discriminated against its employees, subcontractors, vendors, or suppliers during the term of this Contract; or (e) a Proceeding involving any license that Contractor is required to possess in order to perform under this Contract.

**32. State Data.** All data and information provided to Contractor by or on behalf of the State, and all data and information derived therefrom, is the exclusive property of the State ("**State Data**"); this definition is to be construed as broadly as possible. Upon request, Contractor must provide to the State, or a third party designated by the State, all State Data within 10 calendar days of the request and in the format requested by the State. Contractor will assume all costs incurred in compiling and supplying State Data. No State Data may be used for any marketing or commercial purposes.

#### 33. Reserved.

- **34.** Non-Disclosure of Confidential Information. The parties acknowledge that each party may be exposed to or acquire communication or data of the other party that is confidential, privileged communication not intended to be disclosed to third parties.
  - a. Meaning of Confidential Information. For the purposes of this Contract, the term "Confidential Information" means all information and documentation of a party that: (a) has been marked "confidential" or with words of similar meaning, at the time of disclosure by such party; (b) if disclosed orally or not marked "confidential" or with words of similar meaning, was subsequently summarized in writing by the disclosing party and marked "confidential" or with words of similar meaning; or, (c) should reasonably be recognized as confidential information of the disclosing party. The term "Confidential Information" does not include any information or documentation that was or is: (a) subject to disclosure under the Michigan Freedom of Information Act (FOIA); (b) already in the possession of the receiving party without an obligation of confidentiality; (c) developed independently by the receiving party, as demonstrated by the receiving party, without violating the disclosing party's proprietary rights; (d) obtained from a source other than the disclosing party without an obligation of confidentiality; or, (e) publicly available when received, or thereafter became publicly available (other than through any unauthorized disclosure by, through, or on behalf of, the receiving party). For purposes of this Contract, in all cases and for all matters, State Data is deemed to be Confidential Information.
  - b. Obligation of Confidentiality. The parties agree to hold all Confidential Information in strict confidence and not to copy, reproduce, sell, transfer, or otherwise dispose of, give or disclose such Confidential Information to third parties other than employees, agents, or subcontractors of a party who have a need to know in connection with this Contract or to use such Confidential Information for any purposes whatsoever other than the performance of this Contract. The parties agree to advise and require their respective employees, agents, and subcontractors of their obligations to keep all Confidential Information confidential. Disclosure to a subcontractor is permissible where: (a) use of a subcontractor is authorized under this Contract; (b) the disclosure is necessary or



otherwise naturally occurs in connection with work that is within the subcontractor's responsibilities; and (c) Contractor obligates the subcontractor in a written contract to maintain the State's Confidential Information in confidence. At the State's request, any employee of Contractor or any subcontractor may be required to execute a separate agreement to be bound by the provisions of this Section.

- c. Cooperation to Prevent Disclosure of Confidential Information. Each party must use its best efforts to assist the other party in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limiting the foregoing, each party must advise the other party immediately in the event either party learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Contract and each party will cooperate with the other party in seeking injunctive or other equitable relief against any such person.
- d. Remedies for Breach of Obligation of Confidentiality. Each party acknowledges that breach of its obligation of confidentiality may give rise to irreparable injury to the other party, which damage may be inadequately compensable in the form of monetary damages. Accordingly, a party may seek and obtain injunctive relief against the breach or threatened breach of the foregoing undertakings, in addition to any other legal remedies which may be available, to include, in the case of the State, at the sole election of the State, the immediate termination, without liability to the State, of this Contract or any Statement of Work corresponding to the breach or threatened breach.
- e. Surrender of Confidential Information upon Termination. Upon termination of this Contract or a Statement of Work, in whole or in part, each party must, within 5 calendar days from the date of termination, return to the other party any and all Confidential Information received from the other party, or created or received by a party on behalf of the other party, which are in such party's possession, custody, or control; provided, however, that Contractor must return State Data to the State following the timeframe and procedure described further in this Contract. Should Contractor or the State determine that the return of any Confidential Information is not feasible, such party must destroy the Confidential Information and must certify the same in writing within 5 calendar days from the date of termination to the other party. However, the State's legal ability to destroy Contractor data may be restricted by its retention and disposal schedule, in which case Contractor's Confidential Information will be destroyed after the retention period expires.
- 35. Reserved.
- 36. Reserved.
- 37. Reserved.
- **38. Records Maintenance, Inspection, Examination, and Audit.** Pursuant to MCL 18.1470, the State or its designee may audit Contractor to verify compliance with this Contract. Contractor must retain and provide to the State or its designee and the auditor general upon request, all records related to the Contract through the term of the Contract and for 4 years after the latter of termination, expiration, or final payment



under this Contract or any extension ("**Audit Period**"). If an audit, litigation, or other action involving the records is initiated before the end of the Audit Period, Contractor must retain the records until all issues are resolved.

Within 10 calendar days of providing notice, the State and its authorized representatives or designees have the right to enter and inspect Contractor's premises or any other places where Contract Activities are being performed, and examine, copy, and audit all records related to this Contract. Contractor must cooperate and provide reasonable assistance. If financial errors are revealed, the amount in error must be reflected as a credit or debit on subsequent invoices until the amount is paid or refunded. Any remaining balance at the end of the Contract must be paid or refunded within 45 calendar days.

This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.

- **39. Representations and Warranties.** Contractor represents and warrants: (a) Contractor is the owner or licensee of any Contract Activities that it licenses, sells, or develops and Contractor has the rights necessary to convey title, ownership rights, or licensed use; (b) all Contract Activities are delivered free from any security interest, lien, or encumbrance and will continue in that respect; (c) the Contract Activities will not infringe the patent, trademark, copyright, trade secret, or other proprietary rights of any third party; (d) Contractor must assign or otherwise transfer to the State or its designee any manufacturer's warranty for the Contract Activities; (e) the Contract Activities are merchantable and fit for the specific purposes identified in the Contract; (f) the Contract signatory has the authority to enter into this Contract; (g) all information furnished by Contractor in connection with the Contract fairly and accurately represents Contractor's business, properties, finances, and operations as of the dates covered by the information, and Contractor will inform the State of any material adverse changes;(h) all information furnished and representations made in connection with the award of this Contract is true, accurate, and complete, and contains no false statements or omits any fact that would make the information misleading; and that (i) Contractor is neither currently engaged in nor will engage in the boycott of a person based in or doing business with a strategic partner as described in 22 USC 8601 to 8606. A breach of this Section is considered a material breach of this Contract, which entitles the State to terminate this Contract under Section 24. Termination for Cause.
- **40. Conflicts and Ethics.** Contractor will uphold high ethical standards and is prohibited from: (a) holding or acquiring an interest that would conflict with this Contract; (b) doing anything that creates an appearance of impropriety with respect to the award or performance of the Contract; (c) attempting to influence or appearing to influence any State employee by the direct or indirect offer of anything of value; or (d) paying or agreeing to pay any person, other than employees and consultants working for Contractor, any consideration contingent upon the award of the Contract. Contractor must immediately notify the State of any violation or potential violation of these standards. This Section applies to Contractor, any parent, affiliate, or subsidiary



organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.

- **41. Compliance with Laws.** Contractor must comply with all federal, state and local laws, rules and regulations.
- 42. Reserved.
- 43. Reserved.
- **44. Nondiscrimination.** Under the Elliott-Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, *et seq.*, the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, *et seq.*, and <u>Executive Directive 2019-09</u>. Contractor and its subcontractors agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex (as defined in Executive Directive 2019-09), height, weight, marital status, partisan considerations, any mental or physical disability, or genetic information that is unrelated to the person's ability to perform the duties of a particular job or position. Breach of this covenant is a material breach of this Contract.
- **45. Unfair Labor Practice.** Under MCL 423.324, the State may void any Contract with a Contractor or subcontractor who appears on the Unfair Labor Practice register compiled under MCL 423.322.
- **46. Governing Law.** This Contract is governed, construed, and enforced in accordance with Michigan law, excluding choice-of-law principles, and all claims relating to or arising out of this Contract are governed by Michigan law, excluding choice-of-law principles. Any dispute arising from this Contract must be resolved in the Michigan Court of Claims. Complaints against the State must be initiated in Ingham County, Michigan. Contractor waives any objections, such as lack of personal jurisdiction or *forum non conveniens*. Contractor must appoint an agent in Michigan to receive service of process.
- **47. Non-Exclusivity.** Nothing contained in this Contract is intended nor is to be construed as creating any requirements contract with Contractor, nor does it provide Contractor with a right of first refusal for any future work. This Contract does not restrict the State or its agencies from acquiring similar, equal, or like Contract Activities from other sources.
- **48.** Force Majeure. Neither party will be in breach of this Contract because of any failure arising from any disaster or acts of god that are beyond their control and without their fault or negligence. Each party will use commercially reasonable efforts to resume performance. Contractor will not be relieved of a breach or delay caused by its subcontractors. If immediate performance is necessary to ensure public health and safety, the State may immediately contract with a third party.
- **49. Dispute Resolution.** The parties will endeavor to resolve any Contract dispute in accordance with this provision. The dispute will be referred to the parties' respective Contract Administrators or Program Managers. Such referral must include a description of the issues and all supporting documentation. The parties must submit the dispute to a senior executive if unable to resolve the dispute within 15 business



days. The parties will continue performing while a dispute is being resolved, unless the dispute precludes performance. A dispute involving payment does not preclude performance.

Litigation to resolve the dispute will not be instituted until after the dispute has been elevated to the parties' senior executive and either concludes that resolution is unlikely or fails to respond within 15 business days. The parties are not prohibited from instituting formal proceedings: (a) to avoid the expiration of statute of limitations period; (b) to preserve a superior position with respect to creditors; or (c) where a party makes a determination that a temporary restraining order or other injunctive relief is the only adequate remedy. This Section does not limit the State's right to terminate the Contract.

- **50. Media Releases.** News releases (including promotional literature and commercial advertisements) pertaining to the Contract or project to which it relates must not be made without the prior written approval of the State, and then only in accordance with the explicit written instructions of the State.
- **51. Schedules**. All Schedules and Exhibits that are referenced herein and attached hereto are hereby incorporated by reference. The following Schedules are attached hereto and incorporated herein:

Document Title	Document Description
Schedule A	Statement of Work
Schedule B	Pricing
Schedule C	Insurance Requirements
Schedule D	Specifications
Schedule E	Federal Clauses
Schedule F	Affidavit for Driver Delivery
Schedule G	Equipment Checklist

52. Entire Agreement and Order of Precedence. This Contract, which includes Statement of Work, and schedules and exhibits, is the entire agreement of the parties related to the Contract Activities. This Contract supersedes and replaces all previous understandings and agreements between the parties for the Contract Activities. If there is a conflict between documents, the order of precedence is: (a) first, this Contract, excluding its schedules, exhibits, and Statement of Work; (b) second, Statement of Work as of the Effective Date; and (c) third, schedules expressly incorporated into this Contract as of the Effective Date. NO TERMS ON CONTRACTOR'S INVOICES, ORDERING DOCUMENTS, WEBSITE, BROWSE-WRAP, SHRINK-WRAP, CLICK-WRAP, CLICK-THROUGH OR OTHER NON-NEGOTIATED TERMS AND CONDITIONS PROVIDED WITH ANY OF THE CONTRACT ACTIVITIES, OR DOCUMENTATION HEREUNDER, EVEN IF



ATTACHED TO THE STATE'S DELIVERY OR PURCHASE ORDER, WILL CONSTITUTE A PART OR AMENDMENT OF THIS CONTRACT OR IS BINDING ON THE STATE OR ANY AUTHORIZED USER FOR ANY PURPOSE. ALL SUCH OTHER TERMS AND CONDITIONS HAVE NO FORCE AND EFFECT AND ARE DEEMED REJECTED BY THE STATE AND THE AUTHORIZED USER, EVEN IF ACCESS TO OR USE OF THE CONTRACT ACTIVITIES REQUIRES AFFIRMATIVE ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

- **53. Severability.** If any part of this Contract is held invalid or unenforceable, by any court of competent jurisdiction, that part will be deemed deleted from this Contract and the severed part will be replaced by agreed upon language that achieves the same or similar objectives. The remaining Contract will continue in full force and effect.
- 54. Waiver. Failure to enforce any provision of this Contract will not constitute a waiver.
- **55. Survival.** Any right, obligation or condition that, by its express terms or nature and context is intended to survive, will survive the termination or expiration of this Contract; such rights, obligations, or conditions include, but are not limited to, those related to transition responsibilities; indemnification; disclaimer of damages and limitations of liability; State Data; non-disclosure of Confidential Information; representations and warranties; insurance and bankruptcy.
- **56. Contract Modification.** This Contract may not be amended except by signed agreement between the parties (a "**Contract Change Notice**"). Notwithstanding the foregoing, no subsequent Statement of Work or Contract Change Notice executed after the Effective Date will be construed to amend this Contract unless it specifically states its intent to do so and cites the section or sections amended.



Hoekstra Transportation Inc.

# SCHEDULE A – STATEMENT OF WORK CONTRACT ACTIVITIES

# Contract No. 23000001329

# Medium Class of Non-lift and Lift Transit Buses

# BACKGROUND

This contract is used to provide funding to authorized transit agencies in Michigan for the purchase of Medium Class of non-lift and lift transit buses. Other States, including governmental subdivisions and authorized entities, may use this contract per "section 8, Standard Terms & Conditions".

#### SCOPE

The Contractor must provide Medium Class of non-lift and lift transit buses per **Schedule D – Specifications** and all other requirements of this solicitation.

#### REQUIREMENTS

#### 1. General Requirements

#### **1.1. Product Specifications**

- **A.** Contractor must provide Medium Class of non-lift and lift transit buses per Schedule D, Specifications for Medium Class of non-lift and lift transit buses
- **B.** In the Specification documents, all cells in "Product Detail or Pre-Approved Alternate" column must be completed by the Contractor for each item.
- **C.** Brands or trade names are for identification purposes only and do not limit the Contractor to such brands or trade names.
- **D.** Chassis serial number, body number, axle ratio (if applicable), gross vehicle weight rating (GVWR), seating capacity and paint codes shall be imprinted on a permanent decal(s) or stamped on a metal plate(s) and affixed in the driver's area of the vehicle (location to be approved by the State).
- **E.** The Contractor must be capable of handling final inspection and corrections required by the State prior to acceptance of the Medium Class of non-lift and lift transit buses after a contract is awarded.
- **F.** The Contractor must provide parts and service for a period of seven (7) years after the vehicles have been placed in service throughout the State of Michigan. The Contractor must supply body replacement parts within five (5) business days of a request by a transit agency unless the Contractor notifies the transit agency that the part is not available for shipment and provides the shipping date when the part will be available.



**G.** Regardless of options and seating plan ordered, the Contractor must certify that all vehicles delivered must not exceed the GVWR of chassis as bid (determined by engineering calculated loaded vehicle axle weights). Manufacturers must comply with the chassis company's quality vehicle manufacturing program such as Ford's Quality Vehicle Modifier (QVM).

# **1.1.1. Alternate Products and Equipment**

- A. In the Schedule D, Specifications for Medium Class of non-lift and lift transit buses wherever brand, manufacturer, or product names are referenced it is included only for establishing a description of the minimum quality required for an item. This inclusion is not to be construed as advocating or prescribing the use of a particular brand, product, or item.
- **B.** Bidders who wish to propose an Alternate Product must submit the proposed item(s) in question form by the Bid Q&A deadline.
- **C.** Bidders must include thorough descriptive literature and technical data for each item that may include but is not limited to: dimensions, raw materials and purchased parts.
- **D.** It is the Bidder's responsibility to submit sufficient information to enable the State to evaluate whether their proposed Alternate Product is of equal quality to the reference brand.
- E. In the Q&A addendum posted on www.michigan.gov/SIGMAVSS, the State will indicate whether a proposed Alternate Product is approved.
- **F.** Bidders should list all their proposed Alternate Products in the "Product Detail or Pre-Approved Alternate" section of the Schedule D, Specifications for Medium Class of non-lift and lift transit buses in their bid.

Approval of Alternate Bids or Alternate Products is solely at the State's discretion. A Bidder proposing an Alternate Product not approved in the Q&A addendum may lose evaluation points or be disqualified from further consideration, also solely at the State's discretion.

# 1.2. Warranties

Describe any warranties included in the bid – add additional rows as needed. Explain the process for reporting warranty issues and how the Contractor will handle any repairs or replacements.

- Both OEM Chassis and Upfitter Warranties are included.
- Ford OEM Chassis Warranty: 3 year 36K miles on Chassis & 5 years 60K miles on engine and transmission.
- Freightliner OEM Chassis Warranty: See uploaded WarrantyFrieghtliner.pdf
- Cummins OEM Engine Warranty: See uploaded WarrantyCummins.pdf



- All other warranties uploaded with bid response.
- Contractor employs 2 full time Warranty Administrators and 2 full time Service Department Supervisors to ensure fast, easy warranty service and resolution.
- Contractor's administrators follow OEM set guidelines for filing, reporting, and resolving issues.
- Customers may call Contractors service departments @ 1-800-444-4104 or the manufacturers customer service hotline for assistance.
- Contractor allows customers to subcontract warranty repair(s).
- All warranties are, reported to the OEM and filed through their warranty system. A copy of the vehicle's warranties are delivered with every vehicle and the process for service and warranty is explained to the customer at delivery.

#### Contact for Warranty: Hoekstra Transportation Inc. 3741 Roger B. Chaffee Blvd. Grand Rapids, MI. 49548 1-800-444-4104

The State reserves the right to require additional warranties other than those identified by the Contractor in its response to this RFP.

#### **1.3. Recall Requirements and Procedures**

- If a recall is issued, customers are notified by the OEM.
- If the vehicle requires a visit to a repair facility, Contractor facilitates the scheduling, service, parts and paperwork.

#### 1.4. Incentives

Contractor is willing to offer any incentives or programs the OEM offers. Contractor offers trade-ins.

#### **1.5 Funding Requirements**

FTA funding shall be implemented for transit buses. Please see required FTA terms per **Schedule E – Federal Clauses**.

#### 2. Service Requirements

#### 2.1. Timeframes

All Contract Activities must be delivered within 210 business days from receipt of order. The receipt of order date is pursuant to the **Notices** section of the *Standard Contract Terms*.

#### 2.2. Delivery

Delivery must be made between the hours of 8:00 a.m. and 4:00 p.m., Monday through Friday ONLY, excluding Holidays.

The vehicle will be driven to the final destination and delivery will be scheduled with the Ordering Entity.



# 2.3. Technical Support and Repairs

The Contractor must specify its toll-free number for the State to make contact with the Contractor for technical support, repairs and maintenance. The Contractor must be available for calls and service during the hours of 8 am to 5 pm EST.

#### Technical support and repairs: 1-800-444-4104

#### 2.4. Training

The Contractor will provide training when necessary, including but not limited to, aspects of ordering, shipping, billing, receiving, and vehicle maintenance. At the request of the State, the Contractor will provide in-service training on products, installation, and product safety issues. The Contractor will also provide training jointly with the Ordering Entity as needed during the period covered by the Contract at no additional charge.

- Contractor regularly offers training programs to customers such as chassis, restraint, wheelchair lift, and electrical training.
- Contractor participates in the Transit Vehicle Maintenance Seminar offering training in electrical trouble shooting and over-all vehicle maintenance.
- Contractor's staff and guest vendors provide high quality training opportunities both in these settings as well as individual agency settings as needed.

#### 2.5. Reporting

The Contractor must submit to the Program Manager quarterly reports which include agency name, vehicle(s) purchased, options, price, date ordered, date delivered, funding used: (Federal/State/Local).

The Contractor supplies weekly, monthly and quarterly reports as requested and modify these reports when additional information is requested.

#### 2.6. Meetings

Meetings requested by the State include, but are not limited to, the pilot and production meetings as required per Section 6.3 - Inspection.

The State may request other meetings as it deems appropriate.

# 3. Staffing

# **3.1. Contractor Representative**

The Contractor must appoint Service manager, or a Product Representative specifically assigned to State of Michigan accounts who will respond to State inquiries regarding the Contract Activities, answer questions related to ordering and delivery, etc. (the "Contractor Representative").

The Contractor must notify the Contract Administrator at least 14 calendar days before removing or assigning a new Contractor Representative.

#### 3.2. Key Personnel

The Contractor must appoint one (1) individual who will be directly responsible for the day-to-day operations of the Contract ("Key Personnel"). Key Personnel must be specifically assigned to the State account, be knowledgeable on the contractual requirements, and respond to State inquiries within 24 hours.



Contractor's Key Personnel must be available during the following times: 8:00 am – 5:00 pm Eastern.

The Contractor may not remove or assign Key Personnel without the prior consent of the State. Prior consent is not required for reassignment for reasons beyond the Contractor's control, including illness, disability, death, leave of absence, personal emergency circumstances, resignation, or termination for cause. The State may request a résumé and conduct an interview before approving a change. The State may require a 30-calendar day training period for replacement personnel.

The Contractor must identify the Key Personnel, indicate where they will be physically located, and describe the functions they will perform.

#### **Contractor Representative:**

Steve Bolin Commercial Sales Manager Hoekstra Transportation Inc. 3741 Roger B. Chaffee Blvd. Grand Rapids, MI. 49548 P: 616-389-1130 M: 616-299-5170 E: <u>SBolin@Hoekstralnc.com</u>

#### 3.3. Non-Key Personnel

The Contractor must notify the Contract Administrator at least 10-calendar days before removing or assigning non-key personnel.

#### 3.4. Organizational Chart





# 3.5. Customer Service Toll-Free Number

The Contractor must specify its toll-free number for the State to contact the Contractor Representative who must be available for calls during the hours of 8 am to 5 pm EST Monday through Friday, at a minimum. Identify customer service availability for this proposal by hours and days of the week.

# 1-800-444-4104 x1130

#### Monday-Friday – 8am-5pm EST

#### 3.6. Technical Support, Repairs and Maintenance

The Contractor must specify its toll-free number for the State to contact the Contractor for technical support, repairs and maintenance. The Contractor must be available for calls and service during the hours of 8 am to 5 pm EST Monday through Friday, at a minimum. Identify availability for this proposal by hours and days of the week.

#### Contractor's service departments are available Monday-Friday – 8am-5pm EST

#### **3.7. Disclosure of Subcontractors**

If the Contractor intends to utilize subcontractors, the Contractor must disclose the following:

- The legal business name; address; telephone number; a description of subcontractor's organization and the services it will provide; and information concerning subcontractor's ability to provide the Contract Activities.
- The relationship of the subcontractor to the Contractor. Of the total contract amount, the price of the subcontractor's work. Whether the Contractor has a previous working experience with the subcontractor. If yes, provide the details of that previous relationship.
- A complete description of the Contract Activities that will be performed or provided by the subcontractor.

#### 3.8. Security

The Contractor will be subject the following security procedures:

The Contractor must explain any additional security measures in place to ensure the security of State facilities.

The Contractor's staff may be required to make deliveries to or enter State facilities. The State may require the Contractor's personnel to wear State issued identification badges.

The Contractor's representatives wear name tags and check in prior to visit with State staff and building security.

#### 4. Pricing

#### 4.1. Price Term

Pricing is firm for the entire length of the Contract with exceptions per section"4.2 Price Changes".

#### 4.2. Price Changes



- A. Pricing is firm for a 365-day period ("Pricing Period"). The first pricing period begins on the Effective Date. Adjustments for changes in the chassis manufacturers OEM standard equipment may be requested, in writing, by either party and will take effect no earlier than the next Pricing Period subject to D., and E. of this section. Adjustments for changes in federal regulations and/or model year chassis increases may be submitted at any time during the contract term subject to C., D., and E. of this section.
- **B.** The Ordering Entity shall receive the benefit of any decreases in the cost incurred by the Contractor. If the chassis manufacturers OEM standard equipment pricing increases during the Contract period by more than one hundred dollars (\$100.00), the Contractor may request a price revision to reflect the actual cost experienced. The request for a cost increase must be accompanied by evidence from the chassis manufacturer that a change actually affected the Contractor's cost. Additionally, it shall be the Contractor's responsibility to provide written notice to the State of its qualification for price reductions.

# C.

- i. If changes in federal regulations affect the cost of the buses during the Contract period by more than one hundred dollars (\$100.00), the Contractor may request a price revision to reflect the actual cost increase experienced. The request must be accompanied and supported by evidence that the change actually affected the Contractor's cost.
- ii. If model year changes for the OEM chassis affects the cost of the buses during the Contract period by more than three hundred dollars (\$300.00), the Contractor may request a price revision to reflect the actual cost increase experienced. The request must be accompanied and supported by evidence that the change actually affected the Contractor's cost.
- D. Requests for price changes shall be received in writing at least 30 days prior to their effective date and are subject to written acceptance before becoming effective. In the event new prices are not acceptable, the Contract may be canceled.
- **E.** Per Federal Transit Administration (FTA) requirements, a cost or price analysis is required for all price changes.
  - i. The State may request a Review upon 30 days written notice that specifies what Deliverable is being reviewed. At the Review, each party may present supporting information including information created by, presented, or received from third parties.
- **ii.** Following the presentation of supporting information, both parties will have 30 days to review the supporting information and prepare any written response.
- iii. In the event the Review reveals no need for modifications of any type, pricing will remain unchanged unless mutually agreed to by the parties. However, if the



Review reveals that change may be recommended, both parties will negotiate in good faith for 30 days unless extended by mutual agreement of the parties.

- **iv.** If the supporting information reveals a reduction in prices is necessary and Contractor agrees to reduce rates accordingly, then the State may elect to exercise the next one-year option, if available.
- v. If the supporting information reveals a reduction in prices is necessary and the parties are unable to reach agreement, then the State may eliminate all remaining Contract renewal options.
- vi. Any changes based on the Review must be implemented through the issuance of a Contract Change Notice.

# 5. Ordering

# 5.1. Authorizing Document

The appropriate authorizing document for the Contract will be a Delivery Order (DO) or a Purchase Order from the authorizing transit agency.

#### 5.2. Order Verification

The Contractor must have internal controls approved by Central Procurement Services to verify abnormal orders and to ensure that only authorized individuals place orders.

- Contractor representative reviews all orders for any potential mistakes or corrections that need to be made prior to ordering. Contractor also assists agencies with proper ordering processes.
- The Contractor audits the MDOT Agency list for authorized purchasers.

# 6. Delivery

# 6.1. Delivery Programs

The Contractor will be permitted to drive vehicle(s) to final destinations in compliance with the "Schedule F - Affidavit for Driver Delivery", however, the affidavit must be completed and submitted with the Contractor's proposal.

- **A.** Delivery must be made between the hours of 8:00 a.m. and 4:00 p.m., Monday through Friday ONLY, excluding Holidays.
- **B.** The Contractor agrees and will pay the Ordering Entity if they pick the vehicle up at the Contractor's location. The rate will be equal to the rate paid to the Contractor's drivers plus provide or reimburse the cost of gasoline/fuel.
- **C.** The vehicle will be driven to the final destination and delivery will be scheduled with the Ordering Entity.

# 6.2. General Delivery

The State and/or the Ordering Entities have the right to refuse vehicle delivery if the following conditions are not met. For the delivery of all units that may be released against the Contract the following must apply:

- **A.** The Contractor must produce the pilot model as the first buses ordered by the State for its transit agencies.
- **B.** The Buses should be:



- i. air conditioned
- ii. the largest size on request by the transit agencies.
- **C.** All necessary testing and equipment placement must be performed on the pilot models before final inspection/acceptance by the State.
- **D.** The pilot model must serve as a standard for the following units as ordered but should not relieve the Contractor from an obligation to manufacture all units in compliance with all specifications.

# 6.3. Inspection

A. Pilot, Production Model and Plant Inspections:

- i. Pilot Model Review Meeting at the Manufacturer's facility, or at a mutually agreed upon location, must be conducted within thirty (30) calendar days from the date of the Purchase Order.
- ii. Pilot Model Approvals, shall be completed by the State and/or receiving agency within thirty (30) calendar days after delivery of the pilot model by the ordering agency.
- iii. Periodic Production/Plant Inspections, by the Michigan Department of Transportation, Office of Passenger Transportation include two (2) per contract period.
- iv. Final inspection shall be made at a site(s) as agreed upon by the Contractor and the ordering agencies. The Contractor should be capable of handling final inspection and corrections required by the State prior to acceptance of the buses after a Contract is awarded. The Contractor should be responsible for transportation (air fare, rail fare, car rental, taxi, or mileage), lodging, parking expenses, meals, and tips for up to three (3) individuals, as determined by the Michigan Department of Transportation, Office of Passenger Transportation, for involvement in any of the above pilot model and production schedule review or plant inspections. All travel expenses should be based on the DTMB, Vehicle and Travel Services Schedule of Travel Rates for Classified and Unclassified Employees Effective January 1, 2011 or subsequent updates. http://www.michigan.gov/dmb/0,4568,7-150-9141\_13132---,00.html

# 6.4. Testing

- A. Testing Prior to delivery, the Contractor must certify that:
  - i. All quality assurance activities have been completed.
  - ii. All applicable testing has been completed.
  - iii. All material deficiencies discovered during the quality assurance activities and testing have been corrected.

The Deliverable or Service is in a suitable state of readiness for the State's review and approval.

- B. If a Deliverable includes installation at the Ordering Entity location the Contractor must:
  - i. Perform any applicable testing.
  - ii. Correct all material deficiencies discovered during the quality assurance activities and testing.



- iii. Inform the State that the unit is in a suitable state of readiness for the State's review and approval.
- C. To the extent that testing occurs at the Ordering Entity's location personnel are entitled to observe or otherwise participate in testing.

# 6.5. Final Acceptance

Final Acceptance is when the project is completed and functions according to the requirements listed in all previous sections of this document. Any intermediate acceptance of sub-Deliverables does not complete the requirement of Final Acceptance.

# The State and /or the Ordering Entity have the right to refuse vehicle delivery when the conditions listed above are not met.

# 7. Invoice and Payment

# 7.1. Invoice Requirements

All invoices submited to the State must include: (a) date; (b) delivery order number; (c) contract number; (d) quantity; (e) description of the Contract Activities; (f) line items for up-fitting options (g) unit price; (h) shipping cost (if any); and (i) total price; (j) Ordering Entity; (k) VIN number.

# 7.2. Payment Methods

The Ordering Entities will make payment for Contract Activities to the Contractor.

# 7.3. Procedure

The Ordering Entities have been instructed to make immediate inspection on receipt of units and to process payment documents promptly. Payments, however, will be delayed if the bus fails to comply with specification requirements. Therefore, it is incumbent upon the Contractor to close pre-delivery inspection in accordance with the contract requirements.

# 8. Liquidated Damages

Late or improper completion of the Contract Activities will cause loss and damage to the State, and it would be impracticable and extremely difficult to fix the actual damage sustained by the State. Therefore, if there is late or improper completion of the Contract Activities the State is entitled to collect liquidated damages in the amount of \$5,000 and an additional \$100 per day for each day Contractor fails to remedy the late or improper completion of the Work.

Unauthorized Removal of Key Personnel will interfere with the timely and proper completion of the Contract, to the loss and damage of the State, and it would be impracticable and extremely difficult to fix the actual damage sustained by the State. Therefore, the State may assess liquidated damages against Contractor as specified below.

- The State is entitled to collect \$1,000 per individual per day for the removal of any Key Personnel without prior approval of the State.
- The State is entitled to collect \$1000 per individual per day for an unapproved or untrained key personnel replacement.



# 9. Additional Requirements

# 9.1. Environmental and Energy Efficiency Product Standards

The Contractor must identify any energy efficient, bio-based, or otherwise environmentally friendly products used in the products. Contractor must include any relevant third-party certification, including the verification of a United States Department of Agriculture certified bio-based product label. Contractor must describe how products that meet these requirements are identified or otherwise labelled.

# 9.2. Hazardous Chemical Identification

In accordance with the federal Emergency Planning and Community Right-to-Know Act, 42 USC 11001, *et seq.*, as amended, the Contractor must provide a Material Safety Data Sheet listing any hazardous chemicals as defined in 40 CFR §370.2, to be delivered. Each hazardous chemical must be properly identified, including any applicable identification number, such as a National Stock Number or Special Item Number.

The Contractor must identify any hazardous chemicals that will be provided under any resulting contract.

# 9.3. Mercury Content

Pursuant to MCL 18.1261d, mercury-free products must be procured when possible. The Contractor must explain if it intends to provide products containing mercury, the amount or concentration of mercury, and whether cost competitive alternatives exist. If a cost competitive alternative does exist, the Contractor must provide justification as to why the particular product is essential. All products containing mercury must be labeled as containing mercury.

# 9.4. Brominated Flame Retardants

The State prefers to purchase products that do not contain brominated flame retardants (BFRs) whenever possible. The Contractor must disclose whether the products contain BFRs. Contractor must describe how products that meet these requirements are identified or otherwise labelled.

# 9.5 Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

The Contractor must confirm that the provided products do not intentionally contain PFAS. This consists of all components of the provided products, including product packaging.

# 10. Service-Level Agreements (SLAs)

- **A.** The Contractor will be held accountable to meet the requirements and the service level requirements established in this Contract.
- **B.** The State reserves the right to reconsider or amend SLA amounts for split awards should they occur.



SLA Metric 1. Timely Deliveries	
Definition and Purpose	All orders must be delivered within 210 calendar days of receipt of order
	AND
	The Contractor must ensure that items and quantities delivered are exactly the items, brands, and quantities on the Order Confirmation. No substitutions will be allowed without prior written permission by Program Manager and a Change Notice executed by the Contract Administrator.
	The entire order will be received on the same day unless a partial delivery has been approved in advance by the Program Manager.
Acceptable Standard	<ol> <li>All deliveries must occur in accordance with the approved delivery schedule for each Facility and Facility Receiving hours. See Section 2.2.</li> </ol>
	<ol> <li>Extenuating circumstances must be communicated by the Contractor to the Program Manager prior to the scheduled delivery date and time.</li> </ol>
	<ol> <li>Items, brands, and quantities delivered will match the Order Confirmation exactly.</li> </ol>
	<ol> <li>Signed and dated packing slips will be provided to Agency at the time of delivery.</li> </ol>
	<ol> <li>The entire order must be delivered on the same day unless a partial delivery has been approved in advance by the Program Manager.</li> </ol>
	<ol><li>Orders not received in their entirety, as determined by a review of the Data Sources, will be considered inaccurate.</li></ol>
	The acceptable standard is 100% compliance.

# Service Level Agreements for this Contract will be as follows:


SLA Metric 1. Timely Deliveries		
Credit Due for Failing to	1. \$100.00 may be assessed for each of the first five occurrences of non-compliance in a given calendar year.	
Meet the Service Level Agreements	2. \$500.00 may be assessed beginning with the sixth occurrence of non-compliance and on each occurrence thereafter in a given calendar year.	
	Extenuating circumstances will be reviewed by the Program Manager before any Service Credits are assessed.	
	At the discretion of the State, these credits may be applied toward any payable due to the Contractor or be payable directly to the State. Payments made directly to the state will be completed within 10 days of notice of assessment.	

# **STATE OF MICHIGAN**

#### Contract No. 23000001329

#### Medium Class of Non-Lift and Lift Transit Buses

### SCHEDULE B PRICING

1. The Contractor must provide a pricing schedule for the proposed Contract Activities using Cost Models below. The pricing schedule should be submitted in Microsoft Excel; however, you may also submit an additional pricing schedule in a non-modifiable format (e.g., PDF). Failure to complete the pricing schedule as requested may result in disqualification of your proposal.

2. Price proposals must include all costs, including but not limited to, any one-time or set-up charges, fees, and potential costs that Contractor may charge the State (e.g., shipping and handling, per piece pricing, and palletizing).

3. The Contractor is encouraged to offer quick payment terms. The number of days must not include processing time for payment to be received by the Contractor's financial institution.

Quick payment terms: \_\_\_\_0 % discount off invoice if paid within \_\_\_\_\_0 days after receipt of invoice.

4. By submitting its proposal, the Contractor certifies that the prices were arrived at independently, and without consultation, communication, or agreement with any other Contractor.

### COST MODEL/EVALUATION FORM MICHIGAN MEDIUM CLASS OF BUSES SPECIFICATION Minimum 7 Years/200,000 Miles

Bidder Company Name:		Hoekstra Transportation Inc.		
Bidder Address:		3741 Roger B Chaffee Blvd - Grand Rapids, MI. 49548		
Preparer's Name:		Steve Bolin		
Inspection 1	Facility:	Hoekstra Transportation Inc.		
Address of Facility:	Inspection	3741 Roger B Chaffee Blvd - Grand Rapids, MI. 49548		
I				
		Description	Michigan Public Transit Authorities Unit Price (Includes 0.75% Admin Fee)	
	Base Bus Fl	oor Plans – Class One		
А.	Class One -	26 Foot Bus – Vinyl Seat Covers		
1	24 passenger	without lift	\$148,626.00	
2	14+2 passeng	ger with lift	\$160,740.00	
3	10+3 passeng	ger with lift	\$161,386.00	
В.	Class One- 2	26 Foot Bus – Fabric Seat Covers		
1	1 24 passenger without lift		\$148,942.00	
2 14+2 passer		ger with lift	\$161,002.00	
3	10+3 passeng	ger with lift	\$161,623.00	
C.	Class One –	29 Foot Bus – Vinyl Seat Covers		
1	28 passenger	without lift	\$152,735.00	
2	18+2 passeng	ger with lift	\$163,932.00	
3	14+3 passeng	ger with lift	\$165,495.00	
4	10+4 passeng	ger with lift	\$168,157.00	
D.	Class One- 2	29 Foot Bus – Fabric Seat Covers		
1	28 passenger	without lift	\$153,104.00	
2	18+2 passeng	ger with lift	\$164,248.00	
3	14+3 passeng	ger with lift	\$165,785.00	
4	10+4 passeng	ger with lift	\$168,446.00	
Е.	E. Class One – 32 Foot Bus – Vinyl Seat Covers			
1	32 passenger	without lift	\$156,954.00	
2	22+2 passeng	ger with lift	\$168,152.00	
3	18+3 passeng	ger with lift	\$169,715.00	
4	14+4 passeng	ger with lift	\$172,377.00	
F.	Class One –	32 Foot Bus – Fabric Seat Covers		
1	32 passenger	without lift	\$157,375.00	
2	22+2 passeng	ger with lift	\$168,520.00	
3	18+3 passeng	ger with lift	\$170,057.00	

4	14+4 passenger with lift	\$172,719.00
	SUBTOTAL (Class One Buses A-F)	\$3,580,090.00
	Base Bus Floor Plans – Class Two	
G.	Class Two - 26 Foot Bus – Vinyl Seat Covers	
1	24 passenger without lift	\$173,261.00
2	14+2 passenger with lift	\$186,113.00
3	10+3 passenger with lift	\$186,877.00
H.	Class Two- 26 Foot Bus – Fabric Seat Covers	
1	24 passenger without lift	\$173,577.00
2	14+2 passenger with lift	\$186,376.00
3	10+3 passenger with lift	\$187,114.00
I.	Class Two – 29 Foot Bus – Vinyl Seat Covers	
1	28 passenger without lift	\$178,009.00
2	18+2 passenger with lift	\$190,862.00
3	14+3 passenger with lift	\$191,625.00
4	10+4 passenger with lift	\$194,403.00
J.	Class Two- 29 Foot Bus – Fabric Seat Covers	
1	28 passenger without lift	\$178,378.00
2	18+2 passenger with lift	\$191,177.00
3	14+3 passenger with lift	\$191,915.00
4	10+4 passenger with lift	\$194,693.00
К.	Class Two- 32 Foot Bus – Vinyl Seat Covers	
1	32 passenger without lift	\$181,922.00
2	22+2 passenger with lift	\$194,775.00
3	18+3 passenger with lift	\$195,539.00
4	14+4 passenger with lift	\$198,316.00
L.	Class Two- 32 Foot Bus – Fabric Seat Covers	
1	32 passenger without lift	\$182,343.00
2	22+2 passenger with lift	\$195,143.00
3	18+3 passenger with lift	\$195,881.00
4	14+4 passenger with lift	\$198,659.00
	SUBTOTAL (class two buses G-L)	\$4,146,958.00
	TOTAL (class one and two buses A-L)	\$7,727,048.00
М.	Equipment Options	
1	Air Conditioning, Split unit <b>26 foot</b>	\$19,898.00
2	Air Conditioning, Split unit <b>29 foot</b>	\$24,656.00
3	Air Conditioning, Split unit <b>32 foot</b>	\$25,159.00
4	Rooftop AC with heat, <b>26 foot</b>	\$25,021.00
5	Rooftop AC with heat, <b>29 foot</b>	\$39,136.00
6	Rooftop AC with heat, <b>32 foot</b>	\$39,640.00
7	Auxiliary Air Heater -Gas	\$5,328.00
8	Auxiliary Air Heater & Block Heater (in lieu of Aux Coolant Heater)	\$5,328.00
9	Destination Sign – Roller/Curtain	\$3,845.00
10	Destination Sign - LED	\$6,357.00

11	Donation box (in lieu of standard farebox – deduct)	-\$1,045.00
12	Farebox Electrical Prep Only (less standard farebox- deduct)	-\$1,862.00
13	Limited Slip Differential (Class I Only)	\$0.00
14	Limited Slip Differential (Class II Only)	\$1,083.00
15	Rear emergency exit window (deduct)	-\$1,532.00
16	Paint - One stripe	\$3,038.00
17	Paint - Roof second color	\$3,642.00
18	Paint - Different Full body	\$9,561.00
19	Reflective Vinyl Belt Stripe	\$781.00
20	Lift – Type I 800# (in lieu of standard lift - deduct)	-\$404.00
21	Lift – Type II – Powered outer barrier (in lieu of standard lift)	-\$74.00
22	Lift - Folding Platform (in lieu of standard lift)	\$0.00
23	Alternate Standard Lift Manufacturer	\$0.00
24	Wheelchair Single Point Securement System (in lieu of one standard L-Track position)	\$186.00
25	Additional Wheelchair Position – L Track System	\$1,254.00
26	Wheelchair Platform Securement System	\$11,838.00
27	Additional Wheelchair Position – Single Point System	\$1,441.00
28	Two-way radio prep package	\$202.00
29	Radio - AM/FM stereo system w/ four speakers	\$141.00
30	Public Address (PA) System Only w/ two speakers	\$338.00
31	Radio – AM/FM/PA System w/ four speakers	\$569.00
32	Radio – Speaker only (additional)	\$20.00
33	Entrance Stepwell Heater	\$111.00
34	Electric Driveline Brake (Retarder)	\$12,653.00
35	Alternate Flooring Manufacturer	\$242.00
36	Rear Air Ride Suspension (Class One Only)	\$13,329.00
37	Seating – Rear five place passenger – Vinyl	\$1,688.00
38	Seating – Rear five place passenger - Fabric	\$1,738.00
39	Seating – Forward Facing Standard Double Seat - Vinyl	\$1,466.00
40	Seating – Forward Facing Standard Double Seat - Fabric	\$1,516.00
41	Seating – Forward Facing Standard Double Seat – Vinyl (Deduct)	-\$1,245.00
42	Seating – Forward Facing Standard Double Seat – Fabric (Deduct)	-\$1,288.00
43	Seating – Forward Facing Double Fold-A-Way - Vinyl	\$2,242.00
44	Seating – Forward Facing Double Fold-A-Way - Fabric	\$2,292.00
45	Seating – Forward Facing Double Fold-A-Way – Vinyl (Deduct)	-\$1,904.00
46	Seating – Forward Facing Double Fold-A-Way –Fabric (Deduct)	-\$1,947.00
47	Seating – Double Flip-up – Vinyl	\$1,899.00
48	Seating – Double Flip-up - Fabric	\$1,950.00
49	Seating – Double Flip-up – Vinyl (Deduct)	-\$1,613.00
50	Seating – Double Flip-up – Fabric (Deduct)	-\$1,656.00
51	Seating – Double w/Single Integrated Child Seat (ICS) - Vinyl	\$2,408.00
52	Sealing – Double W/Single Integrated United Seat (ICS) – Fabric	\$2,458.00
53	Seating – Double W/Single Integrated United Seat (ICS) – Vinyl (Deduct)	-\$2,046.00
54	Seating – Double w/Single Integrated Child Seat (ICS) – Fabric (Deduct)	-\$2,090.00
55	Seating – Double W/Double Integrated Unita Seat (ICS) - VINYI	\$3,068.00
56	seating – Douole w/Double integrated Unita Seat (IUS) - Fabric	\$3,118.00

57	Driver's Power Seat Base (Class One Only)	\$3,423.00
58	Alt. Engine – Gas (Class One Only) – Deduct	-\$7,231.00
59	Alt. Engine - Bi-fuel Gas/Propane (Class One Only)	\$15,889.00
60	Alt. Engine – Propane (Class One Only)	\$29,188.00
61	Alt. Engine – CNG (Class One Only)	\$29,894.00
62	Stop Request System	\$932.00
63	Back-up Sensor System	\$509.00
64	Video Surveillance – Two Camera System	\$3,449.00
65	Video Surveillance - Four Camera System	\$4,117.00
66	Video Surveillance - Six Camera System	\$4,886.00
67	Video Surveillance - DVR System Upgrade	\$1,335.00
68	Video Surveillance – Extra Interior Cameras	\$389.00
69	Video Surveillance – Extra Exterior Cameras	\$373.00
70	Video Surveillance Preparation Package	\$504.00
71	Hydraulic Brakes in lieu or Air Brakes (Class II Only)	-\$665.00
72	Spare Tire – Steer Axle	\$1,360.00
73	Spare Tire – Drive Axle	\$1,360.00
74	Entry Door Grab Handles	\$202.00
75	Wheelchair Lift Plexglass Barriers	\$131.00
76	Back-up Camera System	\$0.00
77	Bike Rack	\$3,073.00
78	24 Inch Seat Belt Extensions	\$45.00
79	Class I Driver's Side Runnning Board	\$475.00
	SUBTOTAL (Options)	\$355,572.00
	GRAND TOTAL EVALUATION PRICE OF A, B, C, D, E, F, G, H, I, J, K, L, and M ABOVE	\$8,082,620.00
Refer to "S	Standard Contract Terms", section 7, regarding administration fee.	



## **SCHEDULE C - INSURANCE REQUIREMENTS**

#### Contract No. 23000001329 Medium Class of Non-lift and Lift Transit Buses

- 1. General Requirements. Contractor, at its sole expense, must maintain the insurance coverage as specified herein for the duration of the Term. Minimum limits may be satisfied by any combination of primary liability, umbrella or excess liability, and self-insurance coverage. To the extent damages are covered by any required insurance, Contractor waives all rights against the State for such damages. Failure to maintain required insurance does not limit this waiver.
- 2. Qualification of Insurers. Except for self-insured coverage, all policies must be written by an insurer with an A.M. Best rating of A- VII or higher unless otherwise approved by DTMB Enterprise Risk Management.
- **3. Primary and Non-Contributory Coverage.** All policies for which the State of Michigan is required to be named as an additional insured must be on a primary and non-contributory basis.
- 4. Claims-Made Coverage. If any required policies provide claims-made coverage, Contractor must:
  - **a.** Maintain coverage and provide evidence of coverage for at least 3 years after the later of the expiration or termination of the Contract or the completion of all its duties under the Contract;
  - **b.** Purchase extended reporting coverage for a minimum of 3 years after completion of work if coverage is cancelled or not renewed, and not replaced with another claims-made policy form with a retroactive date prior to the Effective Date of this Contract.

#### 5. Proof of Insurance.

- a. Insurance certificates showing evidence of coverage as required herein must be submitted to <u>DTMB-RiskManagement@michigan.gov</u> within 10 days of the contract execution date.
- **b.** Renewal insurance certificates must be provided on annual basis or as otherwise commensurate with the effective dates of coverage for any insurance required herein.
- **c.** Insurance certificates must be in the form of a standard ACORD Insurance Certificate unless otherwise approved by DTMB Enterprise Risk Management.
- **d.** All insurance certificates must clearly identify the Contract Number (e.g., notated under the Description of Operations on an ACORD form).



- e. The State may require additional proofs of insurance or solvency, including but not limited to policy declarations, policy endorsements, policy schedules, self-insured certification/authorization, and balance sheets.
- **f.** In the event any required coverage is cancelled or not renewed, Contractor must provide written notice to DTMB Enterprise Risk Management no later than 5 business days following such cancellation or nonrenewal.
- 6. **Subcontractors.** Contractor is responsible for ensuring its subcontractors carry and maintain insurance coverage.
- 7. Limits of Coverage & Specific Endorsements.

Required Limits	Additional Requirements		
Commercial General Liability Insurance			
Minimum Limits:	Contractor must have their policy endorsed to add "the State of Michigan, its departments, divisions,		
\$1,000,000 Each Occurrence \$1,000,000 Personal & Advertising Injury	agencies, offices, commissions, officers, employees, and agents" as additional insureds using endorsement CG 20 10 11 85, or both CG 20 10 12 19 and CG 20 37 12 19.		
\$2,000,000 Products/Completed Operations			
\$2,000,000 General Aggregate			
Automobile Liability Insurance			
Minimum Limits: \$1,000,000 Per Accident	Contractor must have their policy: (1) endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds; and (2) include Hired and Non-Owned Automobile coverage.		



Required Limits		Additional Requirements	
Workers' Compensation Insurance			
Minimum Limits: Coverage according to applicable laws governing work activities.		Waiver of subrogation, except where waiver is prohibited by law.	
Employers Liability Insurance			
Minimum Limits:			
\$500,000 Each Accident			
\$500,000 Each Employee by Disease			
\$500,000 Aggregate Disease			
Garagekeepers Liability Insurance			
Minimum Limits: \$1,000,000 Per Occurrence		Contractor must have their policy: (1) endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds; and (2) include Garagekeepers Legal Liability coverage.	
8 Non-Waiver This Schedule C is n	ot into	Datageneepers Legal Liability coverage.	

8. Non-Waiver. This Schedule C is not intended to and is not to be construed in any manner as waiving, restricting or limiting the liability of either party for any obligations under this Contract, including any provisions hereof requiring Contractor to indemnify, defend and hold harmless the State.

# **STATE OF MICHIGAN**

Contract No. 23000001329

	Schedule D State of Michigan		
	Office of Passenger Transportation		
	Specifications for		
	Medium Class, 7-Years/200,000 Miles (minimum)		
<u> </u>		of Non-lift and Lift Transit B	uses with Alternate Seating
<b>I</b> .	<u>PU</u>	RPOSE OF SPECIFICATIONS	amente for a two avia transit algas commercial non lift hus ar a
	А.	Paratrapsit type commercial bus equipped with a commercial	cial wheelchair lift. The body shall be mounted on a commercial
		or recreational vehicle (RV) chassis. Buses in these spec	cial wheelchair me. The body shall be mounted on a commercial sifications shall be defined by the following classes:
	1) Medium Class One: Minimum 19.500 GVWR		
	2) Medium Class Two: Minimum 22.000 GVWR		GVWR
		Buses shall not exceed 100% of front spring and 100% of	f rear spring capacity rating at ground without exceeding GVWR
		of chassis as bid (determined by engineering calculated lo	baded bus axle weights).
	Unless specified the following specifications shall apply to all classes of buses. The medium class of buses must be capable of seating a minimum of 24 adult forward facing passengers or an alternate capacity of ambulatory adult passengers and wheelchair passengers. The buses shall be fully tested at the Penn State bus test facility in Altoona, Pennsylvania to Federal Transit Administration [FTA] minimum service life category of 7-year or 200,000 miles for medium buses. As a minimum, buses must meet all applicable Michigan Motor Carrier Vehicle Codes, all applicable Federal Motor Vehicle Safety Standards (FMVSS), and the Americans with Disabilities Act (ADA).		
	в.	Alternate Products and Equipment: Refer to Schedule	A, Statement of Work, section 1.1.1
	C.	Please refer to Schedule A Statement of Work, section	n 1.1, A. thru G. for additional specification requirements.
Ш.	BO	DY SPECIFICATIONS	
Α.	GE	NERAL DESIGN AND CONSTRUCTION	
INT	rruo	CTIONS: Where applicable, Bidder should specify eithe	r suggested source or pre-approved alternate and/or
pro	ovide	e detail for all items.	
		Specification Requirement	Suggested Source or Pre-Approved Alternate
1)	SA	<b>FETY</b> : The chassis and body shall be designed using	Complies
	oni	y prudent, proven engineering principles with all work	
	per	formed only by professional established firms. The bus	
	nur	formed only by professional established firms. The bus	
	pur rea	formed only by professional established firms. The bus rchased shall comply with all State regulations and unirements applicable to the design and manufacture of	
	pur req mo	formed only by professional established firms. The bus rchased shall comply with all State regulations and juirements applicable to the design and manufacture of tor buses for the State of Michigan.	
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	(ASTM) and the American Welding Society (AWS). Contact	
	surfaces of all material to be welded shall be clean, and free	
	of grease paint rust and scale. After welding all rough	
	of grease, paint, rust and scale. After weiging, an rough	
	edges and surfaces on parts shall be ground smooth and	
	coated with a corrosion inhibiting primer and paint.	
5)	ATTACHMENT HARDWARE: All rivets, screws, bolts,	Complies
-	nuts, washers and other types of fasteners used in the	
	construction process, including those that would be exposed	
	to the elements shall be of appropriate size and strength	
	rating for the application. They shall be sprayed with or	
	disped in a rust registent secting material be plated be	
	dipped in a rust-resistant coaling material, be plated, be	
	stainless steel, or otherwise be made of rust-resistant type	
	material, all of which will pass the 480-hour ASTM B117 Salt	
	Spray test and the 480-hour ASTM D2247 Humidity	
	Resistance test (see section C. Vendor/Manufacturer	
	Requirements, subsection 8. Bid Documents, items v. &	
	<b>x.).</b> Fasteners used by the respective component	
	manufacturers in their assemblies are acceptable as part of	
	the assembly.	
D		
D.	BODT STRUCTURE AND EXTERIOR PAREES	
1)	Metal Rollover Frame, Cage-type Construction	
а.	The bus shall have a heavy-duty, unit-body structure type.	Complies
	The body structure (rollover frame, cage type of gauge #16	•
	steel, 0.060" or equal, minimum) shall be of durable steel	
	or aluminum construction, and adequately reinforced at all	
	joints and points of stress, with sufficient strength to comply	
	with the FMVSS 220 rollover protection test for the	
	ALTOONA Useful Life of the bus. All body and floor	
	structural members (tubes, channels, etc.) shall be Gas	
	Metal Arc Welded (GMAC) or equal at each joint. A MIG	
	welding system is acceptable provided it meets the	
	requirements of this specification. Each bidder shall	
	provide certification with the bid, that the bus meets the	
	FMVSS 220 rollover protection test as bid (see section C.	
	Vendor/Manufacturer Requirements, subsection 8. Bid	
	Documents, item k.).	
b.	The bus shall be designed to withstand road shocks stop	Complies
	and start operations, seasonal weather and road extremes	Compiles
	and other conditions found in Michigan transit hus service	
	The body shall be securely fastened to the chassis frame	
	structure using a method of uniform attachment consisting	
	of strategically placed rubber isolators/cushions consistent	
	with cab/chassis isolators/cushions with connector bolts	
	that permit body flexing independent of chassis flexing	
	Roof side front and back panels shall be secured to the	
	hody vertical and horizontal frame members, and these	
	when fastened to the floor structural members, result in a	
	permanent, fully integrated structural unit adequately	
	reinforced at all points where stress concentration may	
	occur. The wall structure shall be welded or bolted to the	
	floor with grade 8 holts to provide adequate stability in the	
	event of a non-static rollover event. The body floor sub-	
	frame assembly including lower skirt reinforcements shall	
	he at a minimum gauge number 14 ( 075" thickness)	
	alvanized or aluminized (minimum T1-10 thickness) steel	
	(mill applied) or gauge number 16 stainless steel or gauge	
	number 12 aluminum or gauge number 14 steel treated a	
	with corrosion resistant coating. All body floor sub-frame	
	assembly shall meet the 480-hour salt enrav test per ASTM	
	procedure B-117 with no structural detrimental affects to	
	normally visible surfaces. Certification of compliance with	
	Hermany violate duraged. Continuation of compliance with	

	this requirement shall be published by an independent company and be submitted with the bid (see section C. Vendor/Manufacturer Requirements, subsection 8. Bid Documents, item v.). Wheel wells shall have minimum yield strength of gauge number 14 (.075" thickness) galvanized steel, gauge number 16 (.060" thickness) stainless steel, or gauge number 12 (.10" thickness) aluminum properly welded or secured with approved corrosion resistant fasteners to the floor structure. The entire body cage and frame including floor structure shall be properly coated with a corrosion resistant coating or a non -water permeable primer/paint. All components treated to resist corrosion shall be properly cleaned to remove greases, oils, and residues before application of the corrosion resistant material. Passage holes provided for wiring and hoses shall be thoroughly sealed to prevent dust and moisture intrusion and be sufficiently protected to ensure against wear from friction and the elements. When completed, all body side sections and roof sections	
	including structure shall be at a minimum 1¼" thick. Where body segments are joined, they shall be properly sealed to prevent intrusion of drafts, fumes, dust, and water to the interior of the bus body.	
C.	All exterior side and roof panel material shall be fiberglass reinforced plastic (FRP), it shall have as a minimum, of 2.16 mm (0.080") thick material (comprised of various layers of gelcoat, reinforcement and resins) or .040" FRP with a 2.7mm (.106") Azdel backer to allow proper bend radii over the full length of the roof. Total thickness of .040" FRP and .106" Azdel = .146" roof lamination. It shall be designed to resist impact caused by flying road debris. The material must resist rot, corrosion, and mildew and cannot be affected by cleaning related chemicals, road residue, or environmental exposure. Reinforcements shall be installed around all window openings in order to transfer stress around the opening. All door openings shall have full structural metal framing (tube) equal to the structural members of the body that will adequately support concentrations of stress around openings. All exposed doorframe structure shall be made of 400 series stainless steel (including the fasteners), which does not discolor with age. Where a stiffener or a backer material (substrate) is used for the exterior panels, it shall be bonded with waterproof adhesive to the exterior panel; it shall be a water resistant material that will not wick water; and it must be thoroughly sealed from the elements when installed so that the substrate will not be exposed to or absorb moisture and cause corrosion to the interior of the panel or any body structure. Exterior panel substrate shall not be of wood composition, plywood or a pressed wood product. Where body segments are joined, they shall be properly sealed to prevent intrusion of drafts, fumes, dust, and water to the interior of the bus body.	Complies
d.	All interior panels and trim may be made of scuff-resistant laminate/FRP or molded ABS finished material. Interior panels shall have as a minimum the physical properties of gauge number 24 (.024" thickness). Interior panel substrate shall not be of wood composition, plywood or a pressed wood product. Interior panel threaded fasteners or rivets shall secure panels to body framing structure. Where fasteners are in the panels only, a reinforcing nut or reinforcing panel shall be installed for added strength and fastener retention. All overhead compartment and fuse	The front end panels in the drivers area will be made out of wood and wrapped in gray padded vinyl. This is the only production method now offered.

	panel covers/doors shall be made of the same material as	
e.	Exterior panels. Exterior lower skirt panels shall be fiberglass or composite material and shall be sufficiently stiff to prevent vibration, drumming, or flexing while the bus is in service. Lower edge of skirt panels shall be re-enforced to prevent cracking/breaking due to excessive flexing. Body front and/or rear endcaps may be molded fiberglass panels installed with required structural framing or a FRP composite structure. Lower skirt panels may be one piece in length at manufacture but shall be repairable in sections. Lower skirt panels shall not use a wood substrate material for a panel stiffener. Where exterior panels are lapped, the upper or forward panels shall act as a watershed. Exterior panels that are cut shall have the cut edge sealed (paint or special sealing compound). Sealing and fastening of panel joints, including front and rear cap-to-body joints, shall prevent entrance of moisture and dirt. Joint sealing shall be made through use of a non-shrinking bonding sealant, and joint sealing shall not be solely dependent on an exterior trim strip or a trim cap nor shall the sealing of the panels be dependent on caulking alone. Any visible caulk shall be painted after water testing is complete. All exterior panels shall be buck riveted and/or bonded to the body frame structure.	Complies
f.	The exterior body panels shall have on each side one heavy-duty rubrail. Rubrails (1½" x ½" minimum) shall be extruded solid aluminum or extruded UV resistant plastic with a flexible, rubber-type resilient material insert or a solid rubber-type of flexible, resilient material. Rubrails shall be located no less than 25" nor more than 43" above the ground on each side. Where the rubrails and fender opening guards are not an integral part of the body, installation of rubrails shall be made after the finish coat of paint is applied to the bus.	Complies
g.	Gun installed huckbolt fastenings, buck rivets, bonding adhesives, or approved equivalent shall be utilized on all exterior body panels, rubrails, and all other locations where stress is concentrated. All rivets, screws, bolts, nuts, washers, clamps, and other types of fasteners used in the construction process, including those that would be exposed to the elements, on the exterior and interior of the unit shall be properly plated to resist corrosion. <u>No sheet</u> <u>metal screws shall be permitted, including self-</u> <u>tapping/drilling screws</u> , except for rubrails and rubber fender splash guards (see mudflaps/splash guards) which can be secured with stainless steel or equivalent plated locking-type, self-tapping fasteners. Fastener materials shall be compatible with materials being fastened. Where self-tapping fasteners are used, body panels shall be	Self-tapping/drilling screws are used under the some trim and in other applications on the vehicle such as one in the passenger side rear mirror.

reinforced with steel backing, aluminum backing, or stainless-steel backing. h. Window openings cut into body panels shall have a Complies maximum frame clearance of 3/16" on each side to minimize the need for caulking. All openings cut into metal body exterior panels must have the exposed cut edges primed or properly coated to inhibit water intrusion and corrosion before further assembly or painting occurs. Window frames installed in the body openings shall be properly caulked/sealed to prevent intrusion of moisture and dust. Drip rails shall be installed the entire length of the bus body above windows and doors including driver's door.

i.	The Contractor shall submit roof, sidewall, and flooring	Complies
	drawings snowing structure and structural specifications	
	and inside panels (see section C. Vendor/Manufacturer	
	Requirements, subsection 8. Bid Documents, item e.).	
2)	Passenger Door	
a.	The manufacturer shall provide a heavy duty electrically	Complies
	operated passenger entrance door. The passenger	
	entrance door shall be an anodized aluminum frame, split-	
	soft rubber cushion on the meeting edge 1½" in width.	
	minimum. The door glass shall be see-through, AS-2 tint	
	(70% luminous transmittance) safety glass. Under all	
	operating conditions and bus speeds, an airtight,	
	door and the stepwell between the door and body opening	
	and between the door leaf sections. The door leading	
	edge opening speed shall not exceed 18 inches per	
	second and the closing speed shall not exceed 12 inches	
	4 seconds The front passenger entrance door shall not	
	extend below the step frame. The door shall be located on	
	the right side of the bus near the front wheel. Any door	
	with an exposed (metal showing) outer frame shall be	
	which does not discolor with age. The entrance door shall	
	provide a 30" clear width opening, minimum. Door opening	
	height from the top of the first step to the door header shall	
	be a minimum of 76". Where interior height is low at the	
	injury to those exiting the bus. Suggest Source: A&M	
	Systems Inc .	
b.	The doorframe strength and electric door operator strength	Complies per approved equals
	shall be designed to match the entrance door size. Door	
	tasteners shall be anchored through a metal frame, <u>NOI</u>	
	shall be located in an overhead compartment above the	
	passenger entrance doorway; it shall be concealed from	
	passengers and shall be easily accessible for servicing	
	through a hinged access door. The electronic control	
	prevent water damage. The access door shall be hinged to	
	open up with a holding device or shall be a complete	
	access cover that is secured with 1/4" threaded knobs	
	(knobs shall match access cover) with stainless steel nut	
	in the overhead compartment space. Door motor	
	operation shall be limited electrically to control door travel	
	at full open and full closed positions and shall be adjustable	
	to keep the door closed during bus operation. Physical doorstops shall be used to prevent marring or damage to	
	doors and/or surrounding parts. An entrance door manual	
	release that allows disconnection and simple re-	
	engagement of the door operator shall be provided so that	
	the entrance doors can be manually opened in the event of loss of electrical power or another emergency. The door	
	operator motor shall not run continuously when the manual	
	release is operated. Electric door operator, door linkage,	
	and baseplate components shall be of a single	
	manuracturer. Suggested source: A&M Systems Inc., Excell.	
c.	The passenger door control switch shall be located in the	Complies
1	driver's compartment within easy reach of the driver and be	sembuse

	clearly marked for "open" and "close" <u>icons</u> (switch shall operate the same on all buses). The control switch shall be powered by a constant battery feed circuit with circuit breaker protection. The control switch shall be "hold on" for operation and of a different color than the standard switch.	
d.	A method shall be provided to lock all entrances to the bus when it is not in use. Except for the OEM driver's door and ignition, all secondary door locks shall be keyed the same.	Complies
e.	The Contractor shall submit detailed engineering drawing(s) for the design of the entrance door and door- opening device (see section C. Vendor/Manufacturer Requirements, subsection 8, Bid Documents, item c.).	Complies
3)	Passenger Stepwell	
a.	All entrance steps and stepwells shall be gauge number 14 (.075" thickness) stainless steel, minimum. Steps and stepwells shall have adequate structural bracing. All metal trim hardware in the stepwell area shall be stainless steel. All fasteners in the stepwell area shall be stainless steel that will pass the 480-hour ASTM B117 Salt Spray test and the 480-hour ASTM D2247 Humidity Resistance test. Ground to first step shall not exceed 12-1/2" in height, each additional vertical step shall not exceed 9.88" and all tread depths shall be 9" minimum. All steps in the entrance stepwell shall be of the same width. A suspension kneeling feature may be used to achieve the required 12" step height. Stepwells shall be covered with flooring material as described in Flooring, <b>Section B</b> , <b>subsection 5. Step shall not retain water.</b> No aluminum step nosing shall be used. Any interior stainless steel except for exposed door frames shall be brunched not painted	Aluminum noncorrosive trim is used at the top of the entry step. This is the only production method now offered.
b.	The Contractor shall submit detailed engineering drawing(s) for the design of the entrance step configuration (see section C. Vendor/Manufacturer	Complies
	Requirements, subsection 8. Bid Documents, item d.).	
4)	The interior	
a.	aesthetically pleasing atmosphere. The door and driver instrument panel are to be painted or otherwise finished with a non-reflective, anti-glare finish that matches the overall interior tones of interior panels. All interior hinged access doors shall use quarter-turn, non-corrosive metal, thumb latches with positive stop mechanism (except the storage area in this section, item f., shall have one lockable latch) to hold the door positively closed. All interior markings shall be durable materials affixed to the interior panels' smooth surfaces or markings shall be durable materials affixed to metal plates fastened to the interior panels of the bus. The interior design and colors shall be approved by the State.	Complies
b.	All interior panels shall be made of laminate/FRP finished material scuff-resistant materials. Fuse panel and compartment doors only can be padded vinyl covered plywood.	Complies
C.	A white or light gray color shall be installed in the interior area above the seat rail lines, in the ceiling area, and on the rear endwall. All materials and treatments shall be easily cleaned. Panel fastening devices shall match color of panels. All interior finished surfaces shall be impervious to diesel fuel, gasoline, and commercial cleaning agents.	Complies

	Finished surfaces shall not be damaged by controlled	
	applications of graffiti-removing chemicals.	
d.	The interior height of the passenger compartment at center	Complies
	aisle shall be 76" minimum. At 6" from the sidewall there	
	shall be 67" of interior height, minimum, with a gradual	
	contour to the center aisle (no bulkheads). Interior	
	headroom at the back of bus (rear air conditioning	
	evaporator area) may be reduced to a minimum of 60", but	
	it shall increase to the normal ceiling height at the front of	
	the rear seat cushion. The interior width at seat line shall	
	be 90", minimum.	
e.	All surfaces, items, or hardware in the passenger	Complies
	compartment having sharp edges, corners, or angles that	Compiles
	could cause injury, shall be padded with a heavy-duty.	
	vinvl-covered, energy absorbing material to match interior	
	colors. Areas inside the passenger compartment of low	
	headroom where a person is prone to strike his head shall	
	be marked and padded. All handrails shall have rounded	
	edges where exposed.	
f.	A storage area with a hinged, lockable, access door shall	Complies
	be provided in the interior area either above the windshield	Complies
	(without destination sign) or on the side above the driver as	
	space permits This area above the windshield shall also	
	be constructed to adequately support 60 pounds of two-	
	way radio communication equipment. Storage area door	
	shall open upward, be hinged at the top and have a	
	clip/spring to retain the door in the open position	
5)	Flooring	
•/	The fleer deck may be integral with the basic structure or	
а.	mounted on the structure accurate to provent shefing or	Complies
	horizontal movement. All floor fasteners shall be correction	
	registent steel and shall remain accurat and corregion	
	resistant steel and shall remain secured and corrosion	
	Teststatil for the service me of the bus. The hoof deck shall be $3/" C/D$ physical of maxima grade material, or $3/"$	
	tiberglass spassed composite material, or 74	
	nberglass encased composite material, or Manne Tech	
	intrusion. The floor deals upper surface shall have all	
	cracks and voids filled and the whole surface rough sanded	
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	backing block, approved by the flooring manufacturer, shall	
	be installed behind all floor coving and shall be 1.5" radius	
	(minimum). Installation of flooring must be done strictly	
	according to the flooring manufacturer's directions using	
	the proper accessories, tools, and adhesives. Suggested	
	Sources: Altro Transflor Meta, Altro Transflor M Chroma;	
	Gerflor Tarabus; Profusion	
с.	Step treads shall be one-piece resilient sheet flooring	Complies
	system matching the passenger compartment flooring. All	
	step edges (nosings of step tread material) shall have a	
	band of bright yellow contrasting color running full width of	
	ine step. Step fredu to stepwell joints shall be sealed to	
	prevent initiation of molecule and debris. Aluminari	
Ь	An aisle width standee line of bright vellow contrasting	Comulias
u.	color shall be in the aisle just behind sterwell (must meet	Complies
	ADA contrast requirement) Suggested Sources: Altro	
	Safety Sten System: Gerflor: Profusion	
6	Color of all flooring and step tread shall be equal to Altro	Complian
0.	Transflor genome (grev) or bison (tan) as requested by the	complies
	agencies.	
f.	To provide easy access for service, the floor shall have a	Complies
	vapor and fumeproof bright aluminum diamond plate	Complies
	access panel to reservoir fill/check areas and fuel tank	
	sending unit large enough to remove the sending unit and	
	thick enough to prevent it from flexing under normal use.	
g.	Standee decals shall be furnished and mounted at the	Complies
_	center of the bus above the windshield.	
h.	Wheelwells, when required, shall be thoroughly sealed to	Complies
	prevent intrusion of moisture and dirt. Metal wheelwells	••••••
	inside the passenger compartment shall be covered with	
	flooring material or molded fiberglass (FRP or ABS).	
i.	An alternate flooring manufacturer shall be offered as an	Complies
		Complies
	option for agencies.	Compiles
6)	Emergency Exits	Complies
6) a.	Emergency Exits Each bus shall be equipped with a rear exit door with a	Complies
6) a.	Emergency Exits Each bus shall be equipped with a rear exit door with a minimum opening of 1296 square inches with a minimum	Complies
6) a.	Example 24 by 54 (a rear exit window in place of the door is	Complies
6) a.	Exact bus shall be equipped with a rear exit door with a minimum opening of 1296 square inches with a minimum size of 24" by 54" (a rear exit window in place of the door is optional) with no trip hazards. Door threshold and flor shall	Complies
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6) a.	Example 2 States	Complies
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	under all operating conditions and speeds. Door panels	
	shall match exterior and interior body panels (see section	
	B. Body Structure and Exterior Panels, subsection 2.	
	items a., b., and c.). All doors shall be fitted with screwed	
	or bolted-on heavy-duty stainless-steel plano hinges or	
	heavy-duty hinges of a noncorrosive material. A restraint	
	shall be installed to prevent the door from opening beyond	
	105° or striking the rear panel of the bus when the door is	
	opened.	
C.	A passageway of 16" minimum width shall be provided to	Complies
	the rear exit door. No seats or other objects shall be	
	placed in bus, which restricts passageway to rear exit door.	
а.	One-closing static exhaust vent, a combination root vent-	Complies
	the mid point on the longitudinal conter line of the roof of	
	the mid-point on the longitudinal center line of the roof of	
	the passenger section of the bus. The fool vent-escape	
	natch shall provide fresh all now inside the bus when	
	opened and when the bus is in a forward motion. The	
	bandle. There is no warning buzzer requirement for the	
	escape batch Suggested source: DMA 1122 Specialty	
	Manufacturing Co. Transpec Inc.	
6	Instructions for proper use of all emergency exits shall be	Complian
υ.	marked in close proximity to the release mechanisms All	Complies
	interior markings shall be durable materials affixed to the	
	interior panels' smooth surfaces or markings shall be	
	durable materials affixed to metal plates fastened to the	
	interior panels of the bus. Instructions may be UV resistant	
	labels, of bright contrasting color, affixed to a location that	
	shall be approved by the state. All emergency exits shall	
	be marked on the exterior of the bus.	
f.	Lever-type latches used for emergency windows shall	Complies
	secure the windows tightly shut, shall be easily operated,	
	and shall not unlatch due to vibration during bus operation.	
	The latches shall be made of non-corrosive materials and	
	be designed for minimal maintenance needs. Side	
	emergency window latches shall be located on the sides,	
	NOT the bottom. Rear emergency window latches shall be	
~	In the bottom.	
g.	Each exit used for passenger egress shall be identified with	<b>•</b> "
	a red 1/"   ED indicator lamp illuminated with the vehicle	Complies
	a red $\frac{1}{2}$ " LED indicator lamp, illuminated with the vehicle	Complies
	a red $\frac{1}{2}$ " LED indicator lamp, illuminated with the vehicle marker lighting, above each exit, so that it may be seen by a passenger in an adjacent seat. Suggested Source:	Complies
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7)	a red ½" LED indicator lamp, illuminated with the vehicle marker lighting, above each exit, so that it may be seen by a passenger in an adjacent seat. Suggested Source: Series 29, Sorenson Lighting Company Gauges	Complies
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7) a.	a red ½" LED indicator lamp, illuminated with the vehicle marker lighting, above each exit, so that it may be seen by a passenger in an adjacent seat. Suggested Source: Series 29, Sorenson Lighting Company Gauges Chassis Original Equipment Manufacturer (OEM) gauges shall be used in the driver's instrument cluster, but if they are not available, VDO brand gauges or Stewart Warner gauges shall be used. Each bus shall have an instrument cluster with the following non-glare needle-type gauges which are easily monitored by sight from the driver's	Complies
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7) a. b.	a red 1⁄2" LED indicator lamp, illuminated with the vehicle marker lighting, above each exit, so that it may be seen by a passenger in an adjacent seat. Suggested Source: Series 29, Sorenson Lighting Company Gauges Chassis Original Equipment Manufacturer (OEM) gauges shall be used in the driver's instrument cluster, but if they are not available, VDO brand gauges or Stewart Warner gauges shall be used. Each bus shall have an instrument cluster with the following non-glare needle-type gauges which are easily monitored by sight from the driver's position (lights in lieu of gauges are not acceptable). Voltmeter and its wiring shall be compatible with generating capacities.	Complies Complies Complies
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7) a. b. c.	a red 1⁄2" LED indicator lamp, illuminated with the vehicle marker lighting, above each exit, so that it may be seen by a passenger in an adjacent seat. Suggested Source: Series 29, Sorenson Lighting Company Gauges Chassis Original Equipment Manufacturer (OEM) gauges shall be used in the driver's instrument cluster, but if they are not available, VDO brand gauges or Stewart Warner gauges shall be used. Each bus shall have an instrument cluster with the following non-glare needle-type gauges which are easily monitored by sight from the driver's position (lights in lieu of gauges are not acceptable). Voltmeter and its wiring shall be compatible with generating capacities. Engine oil pressure gauge.	Complies Complies Complies Complies
7) a. b. c. d.	a red 1⁄2" LED indicator lamp, illuminated with the vehicle marker lighting, above each exit, so that it may be seen by a passenger in an adjacent seat. Suggested Source: Series 29, Sorenson Lighting Company Gauges Chassis Original Equipment Manufacturer (OEM) gauges shall be used in the driver's instrument cluster, but if they are not available, VDO brand gauges or Stewart Warner gauges shall be used. Each bus shall have an instrument cluster with the following non-glare needle-type gauges which are easily monitored by sight from the driver's position (lights in lieu of gauges are not acceptable). Voltmeter and its wiring shall be compatible with generating capacities. Engine oil pressure gauge.	Complies Complies Complies Complies Complies
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f.	Air system pressure gauge with low air warning alarm and light for buses with an air system.	Complies
8)	Farebox	
a.	The farebox (a donation box is optional) shall be mounted with the trip handle toward the driver and within easy reach of the driver. The farebox shall be mounted on an adequately braced stanchion; shall be located over a flat floor surface near the driver; and shall be accessible to passengers entering the bus (meet ADA requirements). An indirect farebox light shall be connected through an entrance door jamb switch to the running light circuit.	Complies
D.	vaults that are interchangeable and supplied with two vaults that are interchangeable and lockable (2 keys for each lock). The vaults shall be keyed alike. The vault and farebox exteriors shall be marked with key reference. (Location shall be approved by the State at pilot model inspection.) Suggested source: Diamond Model NV	Complies
9)	The frent humper shell be an OEM humper. The rear	Osmaliss
	bumper shall be a high energy absorbing bumper. The rear bumper shall be installed per bumper manufacturer's specifications. Bumper attachment shall use a minimum of SAE grade 8 fasteners with thread locking feature or other shake-proof (Nord-Lock) mounting in all attachment brackets. Rear anti-ride bumper installation shall allow space between the bumper and the body for energy absorption movement without body damage. Bumpers shall not extend beyond the sides of the bus and be reinforced to eliminate excessive movement. Rear bumper Suggested source: Romeo R.I.M. In	
10)	Mud Flaps and Splash Guards	
a.	The bus shall have commercial grade anti-sail mud flaps/splash aprons behind front and rear wheels which contain no visible imprinted logo or advertising. Front mud flaps shall be rubber and rear shall be rigid type mud flaps. The flaps/aprons shall be securely fastened with full width metal strips and appropriate fasteners. The rear flaps/aprons shall be compressed between a gauge number 11 (.125" thickness, minimum) support bracket and a gauge number 14 (.075" thickness, minimum) metal strip. The OEM front flaps shall be fastened securely to the body substructure or chassis frame. The flaps shall extend to no closer than 6" and no farther than 8" of the road surface at curb weight. The mud flaps/aprons shall be at least 1" wider than the tire widths (single front, dual rear) to control splash at the rear of wheel openings.	Complies per approved equals
b.	Other mud flaps/splash aprons/shields shall be installed to protect bus equipment (AC components, batteries, front wheel inner shield, auxiliary heater box, and the like) from road splash.	Complies
C.	Rubber fender splash guards secured with stainless fasteners shall be installed on the rear wheel well opening.	Complies
d.	Where the mud flaps and splash guards are not an integral part of the body, installation shall be made after the finish coat of paint is applied to the bus using appropriate fasteners and adhesive.	Complies
11)	Towing	
	I OW NOOKS Shall be provided with two in the rear and two in the front of the bus, which shall be of sufficient strength	Complies

to tow 1½ times the GVWR of the bus. Tow hooks shall be easily accessed, and free of interference with the bumper system when in use. Access to tow hooks may be made through holes in the bumper assembly. The intended use for tow hooks is only to safely move the bus to a point of tow truck hook-up. Tow hooks shall be installed to prevent them from dragging when the bus is driven over an incline. The tow hooks, equal to Original	
Equipment Manufacturer (OEM) units, shall be mounted and adequately secured to the chassis frame as	
recommended by the tow hook manufacturer or may be supplied by the OEM as standard equipment on the chassis. The bus shall be designed to be towed from the	
front or from the rear with either a frame contact or a wheel lift. A fuel tank protection frame shall not interfere with a frame contact lift. The bidder shall provide the	
towing and lifting procedure at delivery.	
12) Undercoating/Rustproofing	
a. When the unit is completed, the sections of the underside of the bus exposed to the elements shall be treated with an undercoating material except those areas of the OEM chassis where undercoating is not recommended. Undercoating shall be warranted for the same period covered by the body/structure warranty. Suggested source: Pure Asphalt 76M or 770; Tectyl 517 or 121-B; Z Technologies Z Guard 9902STAR.	Complies
b. Rustproofing - All box type steel tubing (except stainless steel) used in the floor structure and sidewall structure from the top of the window down, shall have the interior of the tube coated with corrosion resistant material conforming to MIL-C-62218 as outlined in Federal Standard 297E. Sections that are treated shall be properly cleaned to remove greases, oils, and residues before application of the corrosion-proofing material. All mechanisms (moving or stationary parts) that are affected by or rendered useless by an application of sealant or insulation shall be cleaned free of sealant or insulation shall be warranted for the same period covered by the body/structure warranty. Suggested source: Pure Asphalt 825 or 372; Waxoyl, Ziebart Type-A.	Forest River does not add any additional coating to the inside of box type steel tubing, The tube steel has the aluminized coating previously applied prior to installation.
13) Interior Mirrors/Sun Visors	
a. Interior mirror (with adjustable mounting bracket) shall be a 6" round convex mirror glass with rounded corners, minimum. The driver shall be able to adjust the mirror so that the complete passenger compartment can be viewed through interior mirror. Mirror mounting points shall be reinforced when not in a structural frame member, with location approval by the State at the time of pilot model inspection. Suggested source: B&R Manufacturing, ROSCO (with bracket).	Complies
<ul> <li>b. Windshield sun visor system shall be standard Original Equipment Manufacturer (OEM) chassis visor(s). If the OEM chassis is not equipped with a windshield sun visor, two large transit-type, fully adjustable, double-knuckle, arm-type Plexiglas sun visors shall be provided for the driver at the windshield, and at the side window. Location shall be determined at pilot model inspection. Suggested source: OEM or Manufacturer's standard.</li> <li>14) Exterior Mirrors</li> </ul>	Complies per approved equals

a.	Each bus shall be equipped with exterior, powered- remote, heated, left-hand and right-hand rear view mirrors of flat glass with convex mirrors (3" in diameter, minimum) attached or a combination flat/convex glass in a single mirror head. Both flat and convex glass shall be power remote adjustable. The mirror brackets shall be brushed stainless steel. The mirror shall contain at least 70 square inches of flat glass viewing area. <u>ALL MIRROR</u> <u>MOUNTING SHALL NOT CAUSE PREMATURE BODY</u> <u>DAMAGE. No use of self-tapping or self-drilling screws to mount mirrors.</u> Suggested source: ROSCO Eye-max LP Hawk, Mirror Lite Co, Inc., Bus Boy.	Complies
b.	To prevent obstructed front and right-hand view, a convex, asymmetric, exterior cross view mirror (8" minimum diameter) shall be provided on the left front corner of the Class II bus. Cross view mirrors shall be installed on Class I buses when made they become available. The mirror brackets shall be brushed stainless steel. Suggested sources: Mirror Lite Co Inc. HD, Rosco Eye-Max LP.	Complies
с.	All exterior mirrors shall be constructed with high impact plastic or stainless steel housings. All mirror brackets shall be brushed stainless steel. Mirrors shall be remote adjusting and shall move independently of the mirror housing. The mirrors shall be modular in design so that the glass can be replaced using the "twist lock" mechanism for service without removing the entire mirror assembly from the bus.	Complies
d.	Mirror mountings shall be reinforced when not in a structural frame member to prevent mirror vibration, with approval by the State at the time of Pilot Model Inspection. The mirror placement shall not obstruct driver vision nor have window divider bars between the driver and mirror face. <u>ALL MIRROR MOUNTING SHALL NOT</u> <u>CAUSE PREMATURE BODY DAMAGE</u>	Complies
<u>15)</u>	Medium Class One: The driver's seat shall comfortably hold and support the human body in the ergonomically correct position for driving and meet the flammability requirements of FVMSS 302. The driver's seat with arm rests (right side seat arm rest if available from OEM), left side door arm rest) shall have adjustments for fore and aft slide, 4" minimum travel, back recline, 20 degrees minimum, and weight range capacity up to 300 pounds. While seated, the driver shall be able to make all of these adjustments by hand without complexity, excessive effort, or being pinched. Manual operated adjustment mechanisms shall hold the adjustments and shall not be subject to inadvertent changes. The seat shall be high- backed and shall be properly aligned behind steering wheel to allow for maximum seat adjustments and operator comfort. The seat belt with shoulder harness, automatic retractor and supplemental restraint (SRS) system shall be chassis Original Equipment Manufacturer (OEM) equipment. All seats and seat mountings shall meet applicable federal standards. Suggested sources:	Complies
b.	<u>Medium Class Two:</u> The driver's seat shall be an air suspension seat with mounting base (riser), headrest, and armrests and meet the flammability requirements of FVMSS 302. The seat shall comfortably hold and support	Complies
	the human body in the orthopedically correct position for driving. It shall be adjustable so that occupants ranging in	

	size from the 5th percentile female to the 95th-percentile	
	male may be accommodated to operate the bus. The	
	aalid har stock soisears style 12" minimum avterior width	
	suspension system shall have two dampeners that resist	
	force in both directions, be rubber bumper cushioned at	
	the bottoming out point, and be mounted above the fore	
	and aft clide. The driver's seat with arm rests shall have	
	adjustments for (1) vertical beints (1) minimum travel (2)	
	adjustments for: 1) vertical height, 4 minimum travel; 2)	
	fore and aft slide, 8" minimum travel; 3) back recline, from	
	60E to 110E minimum: seat tilt. 8 degrees minimum at any	
	seat height: and (1) weight range canacity up to 300	
	sour height, and +) weight range capacity up to obo	
	pounds. While sealed, the driver shall be able to make all	
	seat adjustments by hand without complexity, excessive	
	effort, or being pinched. Manually operated adjustment	
	mechanisms shall hold the adjustments and shall not be	
	subject to inadvertent changes and have latches and	
	operating controls on both sides of the soat. The seat	
	shall be high-backed with headrest and shall have 3 air	
	adjustable lumbar supports and adjustable side bolsters in	
	the region of the back frame. Individual switches shall	
	control the air supply for the lumbar adjustments and the	
	air supply shall be from the bus's ongine air compressor or	
	an suppry shan be norm the bus s engine an compressor of	
	from the seat s own external electric air compressor	
	system. A check valve shall be installed to prevent loss of	
	air from the weight control bladder when there is a loss of	
	air supply to the seat. The seat shall have a dust seal	
	(bellows) to enclose the mechanism and seat mounting	
	been The cost and the cost mounting been shall be	
	base. The seat and the seat mounting base shall be	
	properly aligned behind the steering wheel to allow for	
	maximum seat adjustments and driver comfort. No part of	
	the bus directly behind the seat shall interfere with the	
	seat back for a recline of 15° when the seat is positioned	
	furtheat from the steering wheel EM/SS Cortified east	
	iurtnest from the steering wheel. FINVSS Certified seat	
	belt with integrated shoulder harness and an automatic	
	retractor shall be attached to seat frame as an integral	
	part of the seat unit. All seats and seat mountings shall	
	meet applicable federal standards. Suggested source:	
	OFM USCO Madel 0100ALV2 Deserve Free Matre with	
	OEM, USSC Model 9100ALX3, Recard Ergo Metro With	
	headrest and armrests.	
c.	The driver's seat cushion shall be molded high resilient	Complies
	(HR) polyurethane foam padding with indentation load	Complice
	deflection (ILD) 35 nounds minimum, and the back	
	auchier shall be melded at febricated birb resilient (UD)	
	cushion shall be molded or fabricated high resilient (HR)	
	polyurethane foam padding (ILD) 25 pounds minimum.	
	There shall be no welt or bead across the front of the seat	
	cushion under the driver's leas. Compressions to 10	
	percent maximum and tensile strength 15 lbs per square	
	inch minimum. Spat and back suchion foam shall most	
	the typical physical properties of ASTM D-3574 and the	
	flammability requirements of FVMSS 302.	
d.	The driver's seat covering shall be gray Cloth-type Woven	Complies
	Fabric (with flame retardant qualities) meeting the	Compiles
	requirements listed below in All Seats (see section B	
	requirements isted below in All Deats (See Section D.	
	Pady Structure and Exterior Denals, subsection 40	
	Body Structure and Exterior Panels, subsection 18.	
	Body Structure and Exterior Panels, subsection 18. Seat Material, item b. Cloth-type Woven Fabric	
	Body Structure and Exterior Panels, subsection 18. Seat Material, item b. Cloth-type Woven Fabric Requirements(with flame resistance).	
16) F	Body Structure and Exterior Panels, subsection 18. Seat Material, item b. Cloth-type Woven Fabric Requirements(with flame resistance). Passenger Seats	
16) F a.	Body Structure and Exterior Panels, subsection 18. Seat Material, item b. Cloth-type Woven Fabric Requirements(with flame resistance). Passenger Seats All passenger seats shall be mid-back and are required to	Complies
16) F a.	Body Structure and Exterior Panels, subsection 18. Seat Material, item b. Cloth-type Woven Fabric Requirements(with flame resistance). Passenger Seats All passenger seats shall be mid-back and are required to meet all applicable EMVSS testing including EMVSS 210	Complies
16) F a.	Body Structure and Exterior Panels, subsection 18. Seat Material, item b. Cloth-type Woven Fabric Requirements(with flame resistance). Passenger Seats All passenger seats shall be mid-back and are required to meet all applicable FMVSS testing including FMVSS 210 (see section C. Vender/Manufacturer Particements)	Complies
16) F a.	Body Structure and Exterior Panels, subsection 18. Seat Material, item b. Cloth-type Woven Fabric Requirements(with flame resistance). Passenger Seats All passenger seats shall be mid-back and are required to meet all applicable FMVSS testing including FMVSS 210 (see section C. Vendor/Manufacturer Requirements,	Complies
16) F a.	Body Structure and Exterior Panels, subsection 18. Seat Material, item b. Cloth-type Woven Fabric Requirements(with flame resistance). Passenger Seats All passenger seats shall be mid-back and are required to meet all applicable FMVSS testing including FMVSS 210 (see section C. Vendor/Manufacturer Requirements, subsection 8. Bid Documents, item p.).	Complies
16) F a. b.	Body Structure and Exterior Panels, subsection 18. Seat Material, item b. Cloth-type Woven Fabric Requirements(with flame resistance). Passenger Seats All passenger seats shall be mid-back and are required to meet all applicable FMVSS testing including FMVSS 210 (see section C. Vendor/Manufacturer Requirements, subsection 8. Bid Documents, item p.). Two passenger, forward facing seats shall be 35"	Complies

	vandal-proof grab handle mounted to the top of each seat back (two per double seat). Grab handles are not				
	required on seats that have a back against a wall.				
C.	. Single passenger seats shall be 17-1/2" minimum width			vidth	Complies
	with a black, energy-absorbent, vandal-proof grab handle			handle	
	mounted to the to	op of the seat ba	ck.		
d.	Forward facing se	eats shall have 2	27" minimum kne	e to hip	Complies
	room.				
е.	Aisle facing seats	s shall have arm	rests on both en	ds if the	Complies
	seat is not agains	st a modesty par	nel.		
f.	Aisles shall not be	e less than 16" v	vide except as no	oted in	Complies
	Part 3 of this sect	tion.			
g.	The first fixed dou	uble seat, aisle s	side, on the passe	enger	Complies
_	side of the bus sh	hall have an inte	grated child restra	aint seat	
	capable of safely	carrying childre	n of 20 to 50 pou	nds.	
h.	All seats shall be	supported on th	e floor with high	carbon	Complies
	steel support brac	ckets. Seat fram	e shall be cold-ro	oll steel	
	with entering and	eviting the seat	All seat mounti	enere na holte	
	shall be corrosion	resistant coate	d/plated fastener	S.	
	Passenger seatin	g floor rail/track	shall not be insta	alled in	
	the wheelchair lift	or wheelchair s	ecurement areas	. The	
	bidders shall prov	vide certification	test data that the	;	
	installation of the	seats, seat mou	Intings including	floor	
	anchorage and flo	oor fasteners sh	all meet all applic	cable	
	FIVEVSS Including	offered in this hi	16, 209, and 210	ior the	
	Vendor/Manufac	turer Requirem	nents, subsection	n 8. Bid	
	Documents, iten	n p).			
i.	All metal compon	ents of the seat	assembly shall b	e	Complies
	coated with a pov	vder coat epoxy	paint finish that s	shall	p
	meet the following	g tests:			
	Salt Spray	480 hours	ASTM B117		
	Humidity	480 hours	ASTM D2247		
	Impact	To 80 inch-	DZZ47 ASTM		
	Resistance	pounds	D2794		
	All testing is to b	be performed or	n standard meta	I seating	
	materials that ha	ave coating thick	kness of 1.3 to	1.8 mils.	
	Certified test do	cuments are re	quired with bid	proposal	
	(see section C.	. Vendor/Manu	facturer Requir	ements,	
	The seating array	in Documents,	nellis U.J.	he	Complian
J.	furnished by the F	Program Manad	er or Designee a	nd/or	Complies
	Ordering Entity.	- 3			
k.	Suggested source	es: American S	eating Horizon <sup>™</sup>	8535	Complies
	Mid-Back Series;	C.E. White LE S	Series; Freedmar	1	
	Feather Weight.				
17) \	Wheelchair Lift-Ec	quipped Buses	Folding Seats		
a.	Forward facing (d	ouble) fold-away	/ or flip (double) s	eats with	Complies
	seat belts shall b	e provided in th	e wheelchair sec	curement	
	area per seating	g arrangement	s (see Section	В. 27,	
	provided shall be	flin seate Fol	d-away or flip se	iy seals	
	include all dimension	sional structural	and testing requ	irements	
	of the standard	seat specification	on. Seat locking	/latching	
	devices shall be	of high quality a	and be easy to I	atch and	
	unlatch. Seats	must positively	latch in the sea	ated and	
	folded position to	prevent inadver	tent folding or un	folding of	
	the seat. Any sup	oport legs resting	g on flooring shal	I be non-	
1	marring or rest or	i metal plates flu	ish mounted with	nooring.	

· ·		
A w fc s v th fc re e s i	Il fold-away seats shall be able to pass FMVSS 210 rithout having to fasten additional latches or cables. All old-away seats shall fold against the wall when wheelchair pace is required (no further than 12" from wall in the ertical folded position). Seat may not extend into bus more han 37 $\frac{1}{2}$ " (two passenger) and 18 $\frac{1}{2}$ " (1 passenger) when olded down for passenger seating. Aisle space may be educed to 14 inches where fold-up seating is placed on ach side of the aisle or 15 $\frac{1}{2}$ " where placed opposite a tationary seat. The seat bottom cushion shall be a 5	
b	e at 95 degrees minimum. The seats shall be of the same	
d	esign as the other passenger seats. All seat backs of the	
fc	old-away/fold-up seats shall be solid-back bench style	
fa	abric. Suggested source: American Seating Horizon <sup>™</sup>	
8	800 Cantilevered Folding Seat or 8700 Flip-up; C.E. White	
	E Series; Freedman Feather Weight Foldaway or Mid-Hi	
18) Sea	at Material	
<b>a</b> . S	eats shall be individually contoured to each passenger for	Complies
0	ccupant comfort and retention. Seats shall be covered	
a	gency's option. Cloth-type fabric or vinyl shall completely	
е	nclose the seat cushion and the seat back. Seat	
h h	ottom of seat base. Seat background colors shall be gray.	
re	ed, blue, and other in-stock colors (bidder to provide	
a	vailable choices at time of bid). All background colors	
b. C	Ioth-type Woven Fabric Requirements (with flame	Complies
re	esistance)	
i	Minimum weight 23 ounces per linear yard.	Complies
ii	50,000 minimum double rubs (ASTM - 3597-77 Wyzewbeek Method).	Complies
iii	Color fastness to light 300 hours minimum (AATCC-16- 1977 Carbon Arc.)	Complies
iv	Comply with California BLT-117.	Complies
v	All cloth-type woven fabrics except Holdsworth Wool shall be treated with a flame proofing solution following	Complies
	the manufacturer's specifications, No-Flame by	
vi	The fahric shall be a plush material	Complies
VI		
vii	Suggested source: Docket-90 Flame Resistant Fabrics	
	by, CMI, Camira and D-90 vinyls. Contractor shall	Complies
	smoke emissions for the seat covering material	
	supplied (see section C. Vendor/Manufacturer	
	Requirements, subsection 8. Bid Documents, item n.).	
c. V	inyl Fabric	
i	Shall be transportation grade expanded vinyl, 35 ounces per linear yard minimum.	Complies
ii	Suggested source: Docket-90 Flame Resistant vinyl by	Complies
	CMI, Camira, or Omnova. Contractor shall provide	
	emissions for the seat covering material supplied (see	

	section C. Vendor/Manufacturer Requirements,	
d. C	Cushions	
i	Seat cushion and back cushion shall be molded high resilient (HR) polyurethane foam padding. Seat cushion indentation load deflection (ILD) shall be 35 pounds minimum, with compression to 15 percent maximum, and tensile-strength of 15 minimum. Seat and back cushion shall meet the physical properties of ASTM D- 3574 and the flammability requirements of FMVSS 302, minimum. The technical data sheet for the foam supplied shall be included in the bid proposal with the seat information (see section C. Vendor/Manufacturer Requirements, subsection 8. Bid Documents, item q.). Suggested source: Manufacturer's standard.	Complies
ii	Seat and back cushions shall be supported with a spring-type support system. Seat and back cushions shall be completely covered with seat cushion covering material. Seat back depth shall not exceed 3 1/2" overall.	Complies
e. P	assenger Seat Belts	
i	The bidders shall provide certification test data that the seat belts, and the installation are in compliance with FMVSS-207, 208, 209, and 210 where applicable for the bus model being offered in this bid (see section C. Vendor/Manufacturer Requirements, subsection 8. Bid Documents, item p.).	Complies
ii	Two universal "Buckle Up" decals approximately 6" by 6" shall be furnished loose with each bus. Decals shall indicate that seat belt use is recommended.	Complies
iii	All seats shall be equipped with seat belts for each designated seating position, except center seat on rear five passenger bench, which shall be non-retracting type. Latches shall be the same manufacturer and type on all seats, fixed and flip seats.	Complies
iv	The male end of the belt will have a locking retractor. The retractor will be mounted underneath the seat to the seat frame and there shall be no lap retractors except on the rear center bench seats (if equipped).	Complies
v	Belts shall have a push button latch release mechanism.	Complies
vi	A 24" seat belt extension shall be an option for agencies.	Complies
19) Ha	ndrails, Stanchions (Shall meet ADA regulations)	
a. T op m a o s o h a o h	he handrails and stanchions shall be a minimum of 1¼" utside diameter. All handrails and stanchions shall be ositioned so as not to interfere with wheelchair novement and shall meet ADA requirements for position nd size. All handrails and stanchions in the passenger ntrance area shall be highly visible yellow in color. All ther handrails and stanchions shall be brushed stainless teel. Mounting brackets and fittings shall be composed f the same kind of material used for the stanchion or andrail. Stanchion mounting rubber grommets shall be ble to handle roof to floor flex without excessive damage r ejection.	Complies
re	einforcement plates welded to or imbedded in the	Complies

structure behind surface panels of sufficient size and	
strength. Final locations shall be determined at pilot	
model inspection. Self-tapping/threading screws shall	
NOT be used.	
c. A floor-to-ceiling vertical stanchion shall be provided in	Complies
close proximity to the rear of the driver's area. A guardrail	
shall be provided in back of the driver's area extending	
from the vertical stanchion to the left side of the bus 30"	
plus or minus 2" above the floor. A padded modesty	
panel shall be provided from the guardrail to within 8" of	
the floor. Stanchion and guardrail shall not restrict any	
driver's seat adjustments.	
<b>d.</b> A smoked Plexiglas panel, 3/8" thick, shall be provided	Complies
behind driver from top of the driver's seat to within 12" of	
bus ceiling. The panel shall not impair driver's seat	
adjustments. The panel shall be fastened with bolt and	
nuts or double screw heads. Self-tapping/threading	
screws shall NOT be used. The panel shall be located	
to allow the driver's seat back to recline to ½ its maximum	
furtheast frage the attention with the driver's seat in the position	
furthest from the steering wheel. Panel may be	
incorporated into the stanchion and guardrali benind the	
driver and shall have cutouts to give hand access to the	
e. Floor-to-ceiling stanchions (yellow) shall be provided near	Complies
aisie on each side of front entrance.	
f. Left and right side entrance handrails (yellow) shall be	Complies
installed from low stepwell to floor-to-ceiling stanchions	
near aisle. Entrance handrails shall be positioned so	
passengers entering or exiting the bus will have handrail	
support throughout the entering/exiting process and so	
that articles of clothing may not become entangled in the	
handrail-stanchion-guardrail assemblies.	
g. A guardrail (yellow) shall be provided in front of and at the	Complies
rear of the front entrance steps, extending from the	P
vertical stanchions to the right side of the bus 30" plus or	
minus 2" above the floor. A modesty panel (padded both	
sides, vinyl clad) shall be provided to the left (rear side) of	
the entrance from guardrail to floor (in case of lift bus,	
provide floor-to-ceiling stanchion with guardrail and	
modesty panel to rear of platform lift).	
h. Ceiling Handrails	
i Two full length transit-type ceiling handrails shall be	Complies
provided and securely attached to roof structure. The	compileo
handrails shall be a minimum of 1 1/4" outside	
diameter, brushed finish, stainless steel including	
mounting brackets and fittings. The handrail ends shall	
curve toward and terminate at the ceiling. All handrails	
shall meet ADA regulation in 49 CFR Part 38. Subpart	
BBuses, Vans and Systems, §38,29 requirements for	
position and size.	
ii All handrail mountings shall have reinforcement plotos	Complies
welded to or imbedded in structure behind surface	
nanels of sufficient strength to withstand passenger	
force Final locations shall be determined at nilot model	
production	
20) Interior Lighting	
a Overhead entrance and sterwell lights shall be LED and	0!!
a. Overhead entrance and stepwell lights shall be LED allo	Complies
the entrance step tread, or lift or ramp with the door open	
Outside light(s) shall provide at least 1 feet conduction	
illumination on the street surface within 3 feet of cton tread	

	outer edge. This system shall provide illumination automatically when the door is open and meet ADA requirements.	
b.	All lights shall have access holes large enough to easily remove electrical connector.	Complies
C.	Overhead entrance and stepwell lights shall be wired to and be automatically activated by a door controlled switch. Lights shall operate any time the ignition key is on and the door is opened.	Complies
d.	Stepwell light shall be on the side away from wheel splash.	Complies
e.	Interior lighting shall be LED and provide a minimum of two foot-candles of illumination at a reading level. Interior lighting fixtures shall be reasonably flush with the interior walls and ceiling so no hazard exists for the passengers. All lights shall have lead wire long enough to remove light at least 6" from bus and easy access to the connectors for service. All interior lights shall be grounded by an in- harness ground attached in the fuse panel to a common grounding point.	Complies
f.	Light installation shall be designed to illuminate the lift platform when deployed at floor level at no less than two foot-candles of illumination. Outside light(s) shall provide at least 1 foot-candle of illumination on the street surface within 3 feet of step tread outer edge. This system shall provide illumination automatically when the lift door is open and meet ADA requirements. On-off light switch shall be lift door-actuated.	Complies
21) I	Exterior Lighting	
а.	Exterior lighting shall be in accordance with Federal Motor Carrier Safety Regulations (393.11) and ADA regulations. All lights shall have the lead wires long enough to remove the light at least 6" from bus for service. All exterior lights shall be grounded by an in-harness ground attached in the fuse panel to a common grounding point. Unless specified, all exterior lights of the bus shall be light emitting diodes (LED) sealed lamps retained in a rubber grommet mounting except for front headlamp/turn signal assemblies. All lights shall flush mounted and have the mounting to body sealed to prevent moisture intrusion and grounded to the frame.	Complies
b.	All lights shall have access holes large enough to easily remove electrical connector	Complies
C.	Exterior marker lights shall be light emitting diodes (LED) (2" in diameter or 4" x 7/8" sealed lamp) retained in a rubber grommet mounting and conform to Federal Motor Carrier Safety Regulations Part 393.	Complies
d.	All marker lights shall have a weather proof two prong (one positive and one ground) plug-style connector with the ground wire connected to an in-harness ground attached to a common grounding point.	Complies
e.	Marker and tail lights shall be operated through a relay controlled by the headlight switch. Suggested Sources: Dialight,Grote, Optronics, Peterson, SoundOff Signal, Trucklite.Headlights shall be Halogen lamps and the standard front park/turn lights may be a part of the OEM headlight assembly.	Complies
f.	An amber, LED, mid-ship light (sealed) shall be installed on both sides of the bus and shall operate with the hazard flashers and turn signals, license plate LED shall be Peterson Model M153C-MV with Peterson Model 150-40 bracket or Optronics LPL-55 series for those not mounted in the preformed recess in the rear panel.	Complies

g. h.	A red, 4"round or oval, voltage regulated LED high mount stop lamp shall be mounted centrally in the rear panel of the bus and work in conjunction with the brake lights. The high mount stop lamp shall be mounted either above the rear emergency exit door or above the rear emergency exit window. Final location of high mount stop lamps shall be determined at pilot model production. Suggested Sources: Command Electronics model 003-82, Dialight, Grote, Optronics, Peterson, SoundOff Signal, Truck-Lite. Brake/tail lights shall be red 4" round sealed voltage regulated LED lamps and shall not override hazard	Complies
i.	flashers or turn signals. Directional rear turn signal lamps shall be amber 4" round sealed voltage regulated LED lamps.	Complies
j.	Back-up lamps shall be clear, 4", round, sealed, voltage regulated LED lamps. Back-up lights shall be 500 lumens minimum.	Complies
22) I	Heating/Ventilating/Air Conditioning (HVAC)	
a.	During normal passenger service, front and rear heavy- duty heating system shall be capable of raising the interior temperature of a bus from 0°F to 60°F at knee level (22" above the floor) throughout the interior of bus within 30 minutes from engine startup. After initial warm-up, while the bus is in passenger service, the front and rear heavy- duty heating system shall be sufficient to maintain a minimum of 64°F at knee level throughout interior of bus and at the driver's foot space when the outside temperature is 0°F. Heating system operation will be verified by the required system testing as defined in Section C.4. Heating/Ventilating (HV) Certification. In addition to the front heater and windshield defrosters, for increased air circulation, one 6" two speed fan with non- glare blades and body shall be mounted away from passenger and driver traffic in the driver's area near the windshield. The fan shall be mounted securely with nuts, bolts, and washers. Grounding for all heater fan motors shall be supplied by an in harness ground wire attached in the fuse panel to a common grounding point. All HVAC fan motors shall be supplied with proper radio frequency (RF) suppression equipment to remove two-way radio interference.	Complies
b.	Front heating unit shall be automotive in-dash type, chassis Original Equipment Manufacturer (OEM), and shall be capable of delivering heat, fresh air ventilation, and air conditioning (optional) to the driver's area. The front heater shall have a temperature control valve which can be regulated from the driver's area. The driver's area shall have air circulation in each mode of defrost, heat, fresh air ventilation, and air conditioning (optional) of 125 cfm at the foot area, with a total driver's area circulation of 400 cfm minimum.	Complies
C.	Rear heating unit(s) shall distribute heat in at least a 180° direction and ensure air distribution to all passenger areas of the bus interior. Heating unit(s) shall have a minimum 5/8" I.D. heater inlet and outlet ports with a BTU/hr output rating to match the specified HVAC performance requirements. Coolant flow through the heating units shall not be restricted by excessive bends or kinks in hoses or excessive lengths of hoses. Heating units shall have rubber or nylon insulator(s) between their mounting base and floor of the bus. Suggested sources: ACC Climate Control, A. R. Lintern, Bergstrom, MCC Mobile Climate Control	Complies
u.	temperature resistant Ethylene Propylene Diene Monomer	Complies

	(EPDM) material. Hose shall be a reinforced type with Aramid knitted fiber reinforcement between the EPDM tube and EPDM cover. Heater hose material shall be compatible with all types of coolant including long life coolant. Rated temperature limits of the hose shall be - 40°F to +300°F minimum, with a burst pressure of 130 PSI minimum. Heater hoses shall be routed away from diesel aftertreatment system.	
е.	Manual shut off valves for the rear heater shall be placed as close to the engine as is practical. The 5/8" ID heavy- duty brass 1/4 turn ball shut off valves shall be located in the heater outlet line (from engine to heater) and in the heater inlet line (to engine from heater) on curbside in the engine compartment. Shut off valves shall be accessible by personnel without going under the bus. Location to be determined at pilot model inspection.	Complies
f.	Front heater shall have coolant temperature control valve or other controls which can regulate heater temperature from the driver's area.	Complies
g.	All heat lines and hoses shall: have exterior routing along the bus frame rail where possible; be sufficiently protected to ensure against wear from friction and the elements; be insulated to reduce heat loss; use routing that eliminates excessive bends and hose lengths; and have heater hose passage holes through engine cowl and floor area thoroughly sealed to prevent air, dust, and moisture intrusion.	Complies
h.	Air Conditioning (see section B. Body Structure and Exterior Panels, subsection 56. Options, item a. Air Conditioning – Split System, and item b. Air Conditioning/Heat – Rooftop System).	Complies
23)	windows	
a.	Passenger compartment windows shall be T-type slider at top, full slider, or top tip-in type for window ventilation. Windows shall have tempered safety glass and heavy-duty locking features which shall meet FMVSS 217 for emergency exits, if applicable. Window glazing material shall be able to maintain its seal and glass retention for the life of the unit. Caulking around windows shall be used only as a seal, not to make up for body defects or out of tolerance window openings (maximum clearance of ¼" around the frame, <sup>3</sup> /16" on each side). All window glass shall be tinted – passenger windows AS-3 tint 31% luminous transmittance, right and left driver's side windows AS-2 tint 70% luminous transmittance, and windshield shaded-tinted AS-1 tint – and meet applicable federal standards.	Complies
b.	Driver's compartment right and left side windows shall be designed for maximum window area to provide unobstructed vision. Driver's compartment left side window shall be adjustable vent type (moveable front section of lower portion for ventilation) or chassis Original Equipment Manufacturer (OEM) door window. Driver's right side window shall be one piece. Suggested sources:	Complies
	Clear-Vision, Hehr, Kinro, Sampers.	
с.	Clear-Vision, Hehr, Kinro, Sampers. Black trim shall be installed or painted to completely cover the space between all side passenger windows. The trim line shall match the bottom edge of the windows. If equipped with a side lift door, a black trim stripe shall be painted from and around the lift door windows to match the trim of the side windows. The window trim shall give the illusion of one solid window.	Complies

24) Paint	
a. All exterior surfaces shall be smooth and free of visible fasteners (excluding round head structural rivets), dents, and wrinkles. As appropriate for the paint used and prior to application of paint, the exterior surfaces to be painted shall be properly cleaned and primed to assure a proper bond between the substrate and successive coats of original paint. All FRP body paint must match OEM chassis paint codes. Paint shall be applied smoothly and evenly, with the finished surface free of dirt, runs, orange peel, and other imperfections. All exterior finished surfaces shall be impervious to diesel fuel, gasoline, and commercial cleaning agents. Finished surfaces shall not be damaged by controlled applications of commonly used graffiti-removing chemicals.	Complies
<ul> <li>b. All exterior paint shall be a two part acrylic-urethane-type or polyurethane-type with low volatile organic compound (VOC) emission. The finish coat of paint shall be applied before rubrail covers or inserts, fender flares, exterior lights, and other body mounted accessories are installed. Paint shall be applied in the following method:</li> <li>i If on bare aluminum, use proper cleaner. Suggested sources: Cromax 2253, PPG followed by aluminum</li> </ul>	Complies
<ul> <li>conversion. Suggested sources: DuPont 2265, PPG.</li> <li>If on bare steel, use proper cleaner. Suggested sources: Cromax 5717S, PPG followed with steel conversion.</li> </ul>	
iii For all bare metal, use primer. Suggested sources: Cromax Prime 615/616 (two coats), PPG.	
iv Appropriate prep to stainless steel surfaces shall be used to ensure proper paint adhesion.	
<ul> <li>Appropriate primer as required shall be used on fiberglass surfaces.</li> </ul>	
<ul> <li>vi Coat entire prepared surface to be painted with minimum of two coats of paint properly activated and reduced and have a minimum thickness of three millimeters. Suggested sources: t Cromax Chromapremier, PPG Concept System, Sikkens Corporation U-Tech brand.</li> </ul>	
vii Any visible caulk shall be painted after water testing is complete.	
<ul> <li>C. Standard paint color for all buses shall be the manufacturer's pre-finished white exterior panels (to match OEM chassis white). Color scheme on all buses shall be provided at the time of ordering. Additional paint schemes will be quoted in section B. Body Structure and Exterior Panels, subsection 56. Options, item i. Paint – Optional Designs. Special design paint application pricing will be negotiated at the time of ordering by the transit agency.</li> </ul>	Complies
25) Insulation	
a. Inside walls, ceiling, passenger floor area, driver floor area, and fire wall area shall be adequately insulated for sub-zero winters with spray-type foam insulation with a minimum R factor of 5. The nose-cone shall be adequately insulated for sub-zero winters with Mylar insulation with a minimum R factor of 5. The insulation shall be non-formaldehyde, fire-resistant (FMVSS 302 minimum), non-hygroscopic, and resistant to fungus. Insulation shall prevent condensation and thoroughly seal bus so that drafts cannot be felt by the driver or passengers during operations with the passenger door	Complies per approved equals

	closed. Insulation shall not cover up electrical wiring	
	namesses, electrical switches, or other devices and shall not be sprayed in wheelwells. All mechanisms (moving or	
	stationary parts) that are affected create a fire hazard or	
	are rendered useless by an application of sealant or	
	insulation shall be cleaned free of sealant or insulation.	
	including vent canisters and drain pipes.	
b.	Engine hood cover and driver's area shall have adequate	Complies
	insulation to keep driver's foot area cool during summer	
	months, warm during winter months, and reduce engine	
	noise to an acceptable level.	
26)	<u>Type I Lift, (Platform Type)</u> (Shall Meet ADA	
	The Type I plotform lift (pageive lift) shall be installed in a	O a munitica a
а.	separate door opening for use by persons with disabilities	Compiles
	The lift assembly shall be mounted within the bus body on	
	the right (curb) side. The hus manufacturer must provide	
	documentation (reviewed by the State at pilot model	
	production) that the lift installation complies with the lift	
	manufacturer's lift installation requirements. The	
	overhead clearance between the top of the door opening	
	and the raised lift platform, or highest point of a ramp shall	
	be a minimum of 68" for a bus over 22 feet in length to	
	meet ADA requirements.	
b.	The lift doors shall be manually operated, insulated	Complies
	double-door with an outside key locking handle. Spring	
	loaded struts, gas struts or manual latches shall be	
	provided on the lift doors to positively hold the doors in the	
	open position. All door openings shall have full structural	
	traming around the opening equal to the structural	
	members of the body. The lift door(s) shall have an upper windows of the bus. Any	
	exposed lift door frame structure shall be constructed of	
	400 series stainless steel a grade which does not discolor	
	with aging The door latch hardware shall have guides at	
	the top, bottom and mid-point for proper anti-rattle support.	
C.	The lift shall be an electro-hydraulic type. If the lift has a	Complies
_	crossbar, it shall be above the door opening and well	een price
	padded. The platform lift equipment shall be a double "C"	
	channel parallel arm construction, hydraulically operated	
	by two single-acting cylinders with gravity unfold, gravity	
	down, power up, and power fold (stow) operation. No part	
	of the lift platform shall exceed 6 inches/second during the	
	lowering and lifting of an occupant, and shall not exceed	
	12 Inches/second during deploying or stowing. The lift	
	shall have a mechanical outboard safety wheel stop to	
	lifting cycle. Successful bidder shall deliver the lift	
	equipped bus with the type of lift equipment requested by	
	the State. Suggested sources: Braun, Ricon.	
d.	A manual safety override shall be provided that will remain	Complies
	operable. Lift shall have manual override instructions	F
	visible from inside and outside the bus with door open.	
e.	The entire lift assembly shall be installed inside the bus	Complies
	body and shall have adequate protection installed on all	
	sharp corners or items that protrude into the passenger	
	area to prevent accidental injury to passengers. Wall and	
	tioor mounting points shall be reinforced and shall be	
	attached with fasteners having a thread locking feature.	
	Lin installation shall insure that no lift rattling exists when	
\$	A life control interlock evetors about he installed that about	
1.	A init control interiock system shall be installed that shall ensure that the bus cannot be moved when the lift is not	Complies
	stowed and that the lift cannot be deployed unless the	
	interlock is engaged Ito meet ADA regulation in 49 CFR	

Part 38, Subpart B-Buses, Vans and Systems, §38.23, (b)(2)(I)]. The interlock system shall engage when the lift	
operation sequence is followed. Interlock operating	
instructions shall be included with the bus at delivery. An	
driver's station that is activated when the lift door is open	
and when the lift is in operation. An interlock override	
system shall be installed that allows service personnel to	
move the bus to a sate area for repairs. Suggested Source: Intelligent Lift Interlock System (ILIS) by	
Intermotive Products	
g. All lift equipped buses shall display the international	Complies
symbol of accessibility, one each on left and right side of	
inspection	
<b>h.</b> The lift shall meet ADA requirements as well as these	Complies
minimum requirements.	Compileo
i Capacity 1,000 pounds minimum.	
ii Usable platform width 37" minimum.	
iii Usable platform length 54" minimum.	
iv Platform shall include automatic locking inboard safety	
wheel stop (minimum 6" height) and outboard safety	
Wheel stops to prevent wheelchair norm forming on.	
v Flatform shall automatically stop at noor level.	
ground level.	
vii Hand held controls shall be conveniently located on a	
flexible or coiled, cut- resistant cable and shall be	
The cable shall be routed to eliminate being pinched in	
any moving parts and be wrapped with a flexible	
exterior protective conduit.	
<b>viii</b> Platform, bridge plate, and area between bridge plate	
ix Bridge plate and platform shall be coated to resist rust.	
<b>X</b> Platform shall have horizontal handrails (one each side)	
on platform to assist passenger during lift operations.	
Handrails (yellow) shall fold automatically to prevent	
<b>vi</b> Lift door opported interrupt quitch shall provent use of	
lift with lift door(s) closed. Heavy duty long life switches	
shall be used in this application.	
<b>xii</b> The color of the lift shall coordinate with bus interior	
colors and be approved by the Program Manager or	
Designee or the Ordering Entity. The outside edges of the platform shall either be painted vellow or use 3M™	
vinyl safety stripe tape to enhance visibility when	
extended on the ground.	
xiii Sharp corners of lift platform shall be padded (remove	
for lift use) when in the stored position.	
<b>XIV</b> The wheelchair lift shall comply with all federal,	
Administration regulations.	
<b>XV</b> Lift platform shall be fitted with device to prevent the	
platform from touching or leaning against door after	
being returned to stored position when the lift assembly	
27) Wheel Chair Securement Area	
a. The Wheelchair securement system shall be installed and comply with all FMVSS and SAE/WC-18 standards	Complies

h	including, but not limited to FMVSS 49.38 (ADA) and FMVSS 210 and all recognized government standards at minimum. Additionally, the system will be installed to the manufacturers supplied specifications and be ADA compliant in application. Certificate of crash testing must be made available if requested. Securement location shall be installed as shown by the seating plan option and approved at pilot model production. Fold-away seating shall be provided for use when wheelchairs are not being carried as shown in floor plans. The integrated securement system shall restrain the occupant and the wheelchair separately and securely.	
D.	requirements:	Complies
i.	Forward facing wheelchair tie down and occupant restraint shall consist of floor anchorages as to attach four securement retractors with securement points for the chair and a retractable combination, lap belt/shoulder restraint with manual height adjuster for the occupant per location	
ii.	Securement floor anchorage points shall be anodized aluminum, stainless steel or other noncorrosive metal construction and consist of aircraft type insert pockets that can be flush mounted with the flooring (Flanged "L" style track, Q-Straint, Sure-Lok – Omni aluminum 6061- T6 or equivalent with matching end caps, part #QC06058). Anchorages and securements must be tested together and compatible. Floor anchorage points for the first securement space shall be spaced at a minimum of 54" from center of front track to center of rear track. Floor anchorage points shall be located no closer than 8" from a stationary wall or obstruction (forward or rearward) that would hinder an operator from attaching the securement system. The center run of anchorage track between two securement locations can be shared with the rear anchorage of the front securement system. Width of anchorage track shall be no less than 30" wide allowing for the widest of mobility devices. NOTE: In the event 54" can't be achieved in one or all locations must be located closest to the lift. 48" min of all non-compliant locations.	
iii.	Shoulder belt wall anchorage shall be permanently fastened to the body structure in the wall according to the securement manufacturer's installation instructions. Shoulder belts manual height adjustment shall allow approximately 12" of vertical height adjustment allowing for differences in height of the secured mobility aid passenger.	
iv.	The four belts that attach to the wheelchair from the floor anchorage points shall use a simple speed hook end ("J" or "S" style) for chair attachment and have automatic self-tensioning heavy duty retractors with a hard metal cover and have available tightening knob. Knob is for aiding in additional securement control. All floor attachment belts shall be the same and work in any of the four floor attachment points and be equipped with pin connector brackets for the lap belt assembly. Automatic self-tensioning and self-locking retractors with metal covers shall be part of the four floor belt assemblies for automatic belt tensioning. Retractor anchorage fittings shall be easily identified for placement in the floor track	

<b>v.</b>	All belt components and there attachments to such vehicles shall meet ADA design load requirements of 2,500 lbs. per securement leg and a minimum of 5000 lbs. for each mobility device.	
vi.	All components shall meet ANSI-RESNA WC-18 requirements and be 30 MPH/20G impact tested.	
vii.	All components shall be installed to the securement manufacturer's recommended specifications.	
viii.	Suggested sources: Q'Straint Model WC18 QRT 360 Q10007; Sure-Lok's Retraktor <sup>™</sup> Systems for L track AL- 712S-4C.	
C. R	Restraint Storage System	Complies
i	A wheelchair restraint storage system shall be positioned under the foldaway seats at each wheelchair space. Storage system shall:	
1. 2. 3. 4. 5.	Keep restraints clean. Be free of any sharp edges. Provide easy accessibility to restraints. Restraints shall be stored securely_to prevent noise while the vehicle is in motion. Restraint storage system shall be compatible with the installed securement system (WC-18 L-Track or 360 degree single point securement system). Suggested Source: Freedman Tie-Down Storage System.	
ii	A storage pouch, from the securement manufacturer, shall be provided for the lap belt restraints so that the occupant restraints can be stored off the floor in the bus when not in use. Location of storage pouch shall be determined by ordering agency. One belt cutter and 4 blue loops shall be added from the securement manufacturer.	
28) Ch	assis	
<b>a.</b> T b c tt n o a s C n fo	The chassis shall have a pre-delivery inspection performed by a representative of the chassis manufacturer before the ous manufacturing process begins. A copy of the ompleted pre-delivery inspection form shall accompany the bare chassis and accompany the bus during nanufacturing as part of the build order. All standard or optional chassis equipment to be included shall be as dvertised by the manufacturer and factory installed and hall not consist of substitute or aftermarket equipment. Optional chassis equipment not available from the factory may be dealer installed. The chassis shall meet the pollowing minimum requirements.	Complies
b. C c n (i 0 (i 0 (i 0 0 (i 0 0 0 0 0 0 0 0 0 0	Chassis shall be designed for transit use with straight hannel side rails of 36,000 pounds per square inch (PSI) ninimum (medium class one) and 50,000 PSI minimum medium class two) yield strength steel. Chassis shall have one front axle (I-beam) with single wheels and one rear axle full floating) with dual wheels. If available from the chassis DEM, front axle shall have kingpins and front axle shall be nounted for sharp steering angle (minimum lock angle of 8°). <b>Note:</b> If available from the chassis OEM, Axles (front ond rear) shall be equipped with axle oil seals (Stemco, Chicago Rawhide, or equal), shall be filled with proper ubricating oil, and front hubs shall include fill plugs and fluid evel windows.	Complies

	Chassis shall be equipped with power steering and a tilt wheel steering column. The steering column shall be adjustable for various up and down positions of the steering wheel. The steering gear shall be a full hydraulic power assist type.	Complies
30) V	Vheel Base	
	The minimum wheelbase shall be 193" (medium class one and two) using the wheelbase for each of the specified bus lengths which will provide proper approach and departure angles, proper handling, and proper ride characteristics. Maximum rear overhang shall not exceed 1/3 bus overall length	Complies
31) D	Diesel Engine	
a.	All diesel engines shall be electronically controlled, be equipped with a fuel/water separator unit with a dash indicator light, an automatic engine shutdown system (see section B. Body Structure and Exterior Panels, subsection 54. Safety Items, item h.). and a water jacket block heater that is a 1000 watt or largest available from OEM 110- volt model. The electronic diesel engine shall meet current EPA low Sulphur fuel and emissions standards for buses and operate on B-20 biodiesel as a minimum. Driver's area noise level (at driver ear level) shall not exceed 82 DBA at a constant speed of 55 mph on a level roadway and shall be verified at pilot model production.	Complies
b.	Medium class one shall be an in-line 6 cylinder turbocharged diesel engine 6.0 litre minimum, 195 gross horse power at 2,600 revolutions per minute (RPM) with air-to-air after cooling or an 8 cylinder (V-8 OHV) turbocharged diesel engine 6.0 litre minimum, 195 gross horse power at 2300/2600 RPM with air-to-air intercooling. Acceptable engines include: Cummings 6.7 ISB, Ford Powerstroke 6 7	Complies
C.	Medium class two shall be an in-line 6 cylinder turbocharged diesel engine 6.0 litre minimum, 195 <u>minimum</u> gross horse power at 2,600 revolutions per minute (RPM) with air-to-air after cooling. Acceptable engines include: Cummings 6.7 ISB, Navistar International Transportation Corp. MaxxForce DT	Complies
32) F	Auxiliary Coolant Heater	
a.	All buses with diesel engines shall be equipped with an auxiliary heater system that shall be able to preheat, provide supplemental heat, and maintain heat for the engine and the interior of the bus. The auxiliary heater system shall be supplied in heated coolant model for diesel engines. The heater system shall be complete with all fuel and electrical controls, exhaust system, and standard warranty. All auxiliary heaters shall be 12-volt units with a fused power supply and with protection for high and low voltage conditions. The auxiliary heater system shall meet FMVSS 301 fuel system integrity requirements. The heating units shall be fueled from the bus's primary fuel supply. The auxiliary heating units shall be connected electrically to run whenever the bus's rear heat exchanger fan is turned on. The on/off seven day programmable modular electronic timer controls for the heating units shall be located in the driver's area of each bus. The seven-day timer control shall be capable of a two hour preheat control, minimum, and be capable of continuous run control when the key is on with the engine running. The electrical connection shall be a one piece harness from the control switch to the heating unit with all exterior connections Weather-Pak. Electrical harness, fuel	Complies

	lines and heater hoses shall be 24 inches excess length to	
t	facilitate service and testing. Location shall be determined	
;	at the Pre-Pilot Model Review Meeting.	
b. '	The heated coolant model shall be a self-contained unit	Complies
	mounted under the bus near the rear heating unit, and	
	connected to the heater hoses leading to the rear heating	
	unit. The auxiliary heating unit inlet and outlet hoses shall	
	have 5/8" ID heavy-duty brass 1/4 turn ball valves for shut	
	off when the heater needs to be removed for servicing. It	
:	shall be in an enclosure supplied by the auxiliary heater	
	manufacturer, be installed so that adequate ground	
	clearance exists below the neater enclosure box, be easily	
	accessible for servicing, be weather resistant, and be	
	complete with mounting brackets/hardware and coolant	
	circulator pump. The coolant circulator pump shall provide	
	a minimum now of 3.5 gallons per minute. The heated	
	coolant system units shall have safety features for	
	A seven day digital timer shall be used to control	
	A seven day digital limer shall be used to control	
	below the bester enclosure toward the rear of the bus or at	
	the side of the bus with no discharge obstructions. The	
	coolant heater shall control coolant temperature between	
	a low of 154°F and a high of 185°F. Coolant heater output	
	shall operate automatically at different levels with a high	
	heat output of 25.500 BTU/hr minimum (boost setting may	
	be higher). Suggested sources: Espar Inc., Hydronic 10	
	(diesel, heated coolant), OEM, Webasto Thermo 90S	
	diesel, heated coolant).	
33) Tr	ansmission	
	The electronically controlled transmission shall be a	Complies
	minimum, heavy-duty, five-speed automatic cooled by an	Complice
	"H.D. transmission oil cooler" in series with radiator cooler	
	or equal (cooler capacity to match GVWR of bus). The	
1	transmission shall have an external spin-on type filter, if	
	available from OEM. Suggested source: Allison	
	Transmission 1000 or 2000 series or Ford Torqshift	
	matched to the electronic engine and chassis.	
34) A	ignment	
	The bus shall have a four-wheel alignment, set to OEM	Complies
	factory specifications, at final point of inspection, just prior	
	to delivery to the transit agency. A copy of the work order	
	indicating the camper, caster and toe-in settings at time of	
25) 0	final inspection shall be provided with the bus at delivery.	
35) Gross Bus Weight Rating		
<b>a.</b> M	edium Class One	Complies
l i	I-Beam Front Axle Rating – 6,500-lb. minimum. Bus	
	axle weight shall not exceed chassis manufacturer's	
	front axle weight rating or spring and tire capacity.	
ii	Rear Axle Rating, -13,000-lb. minimum. Bus axle	
	weight shall not exceed chassis manufacturer's rear	
	axle weight rating or spring and tire capacity.	
iii	Chassis GVWR - 19,500-lb. minimum. (see Purpose	
	of Specifications Section I.) Engineering calculated	
	loaded bus axle weight charts are required with the bid	
	(see section C. Vendor/Manufacturer Requirements,	
	subsection 8. Bid Documents, item b.).	
<b>b.</b> M	edium Class Two	Complies
i	I-Beam Front Axle Rating - 8.000-Ib. minimum. Bus	•
	axle weight shall not exceed chassis manufacturer's	
	front axle weight rating or spring and tire capacity	
-		
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i	i Rear Axle Rating, - 15,000-lb. minimum. Bus axle weight shall not exceed chassis manufacturer's rear axle weight rating or spring and tire capacity.	
i	ii Chassis GV/WP - 22 000-lb minimum (see Purpose	
•	of Specifications Section I.) Engineering calculated	
	loaded bus axle weight charts are required with the bid	
	(see section C. Vendor/Manufacturer Requirements.	
	subsection 8. Bid Documents, item b.).	
36) E	Differential	
	Heavy-duty rear axle with full floating axles. Gear ratio	Complies
	shall allow buses to travel approximately 65 miles M.P.H.	Complies
	loaded, maximize fuel economy, and not exceed	
	manufacturer's recommended engine operating R.P.M.	
	Axles shall be marked if synthetic oil is used.	
37) E	Battery, Cables, and Grounds	
a.	The battery equipment shall be furnished by the chassis	Complies
	manufacturer where available. The dual batteries shall be	complice
	maintenance free with reserve capacity of 400 minutes @	
	80°F, CCA-900 each or largest available from OEM, 12-	
	volt minimum. The batteries installed in the bus must be a	
	pair of matching units in the OEM location and one in the	
	slide-out tray on the Class I model & Class II (no stepwell	
	battery boxes allowed). The batteries must be fresh,	
	fully charged units when the finished bus leaves the	
	during the manufacturing process which were allowed to	
	become fully discharged for a period of time shall be	
	replaced with fresh new batteries. Where there is no	
	permanent OFM mounting enclosure and securement, the	
	batteries shall be mounted on a slide-out stainless steel	
	tray with battery hold down secured with bolts. The slide-	
	out tray shall be mounted on properly supported	
	mechanism all of which shall have adequate capacity to	
	support the battery equipment. The battery slide-out tray	
	shall allow movement to permit full service of batteries	
	outside of the bus body. The inside of the battery	
	compartment shall be covered with a durable insulating	
	material to prevent electrical shorts. The totally enclosed	
	battery compartment shall be. The battery compartment	
	reinforcement brackets mounted to floor supports. The	
	hattery compartment shall be fitted with an insulated	
	standard exterior access door with hinge and flush pull-	
	style latch(es) (SouthCo Model #M1-61-1) or ¼" turn	
	stainless steel thumb latches, which match latches on	
	other compartment access doors. The battery box	
	compartment must be marked to say "battery inside".	
b.	Battery positive and ground cables shall be AWG size 2/0	Complies
	minimum, fine stranded, flexible copper wire with	
	permanently affixed cable connector ends with heat shrink	
	tubing applied. All cable ends shall be fastened in a manner	
	equal to the method used by the chassis Original	
	Equipment Manufacturer (UEM). Positive cable ends at the	
	insulator. Cable assemblies installed in place of chassie	
	manufacturer's hattery cables shall be sized to match the	
	electrical system's maximum current draw to provide proper	
	engine starting and operation of all systems.	
C.	Engine, body, and equipment arounds (properly sized) shall	Complies
	be installed to handle subsystem electrical capacity. For all	Somplies
	ground wire connections; 1) paint shall be removed at the	
	grounding point to provide a cleaned surface; 2) grounding	
	wires and cables fastened to the frame or body structure	
	shall use a bolt with nut installed in a proper sized hole; and	

3) a coating of dielectric material shall be applied to the cleaned surfaces, cable ends, bolts, and nuts where each positive or grounding cable or wire is attached. The following is a list of grounding locations:	
i A ground of the battery cable size shall be installed between the engine and chassis frame.	
ii Between the transmission case and the chassis frame.	
iii The bus body shall be properly grounded with cables to the chassis frame in at least two places.	
iv Lift pump motor shall be grounded directly to chassis frame using a cable of the same size as the pump motor feed wire.	
V All exterior lights and accessories, added by the body manufacturer, shall be grounded by an in-harness ground attached at a common grounding point. There may be a common grounding point in the rear of the bus along with a required grounding point at the fuse panel.	
<ul> <li>d. All buses shall be supplied with proper radio frequency (RF) suppression equipment to reduce radio interference and improve radio transmission and reception performance. High corrosion resistance and high conductivity braided ground straps shall be added: between the engine and the chassis frame of 1" width, minimum; between the engine and the firewall of ½ " width, minimum; two between the frame and the body sections of ½ " width, minimum; and between the separate body sections of ½ " width, minimum. For all braided ground wire connections, paint shall be removed and a coating of dielectric material applied to the cleaned surfaces where each braided cable attaches as is required in other ground wire applications. All removable covers in the engine area including fiberglass hoods need to be shielded and RF grounded. All braided high corrosion resistance and high conductivity ground straps shall be as short as possible and shall use the negative battery cable attachment point (except those between separate body sections) as the termination point of the RF grounding.</li> </ul>	Complies
<ul> <li>a. The alternator equipment shall be furnished by the chassis manufacturer where high output will match system needs. This system shall be a 12-volt serpentine belt drive with internal or external voltage regulator. It shall be capable of maintaining the battery at a state of full charge under all operating conditions and equipment loads, 200 amp minimum. The alternator(s) shall be supplied with proper radio frequency (RF) suppression equipment provided so there is no two-way radio interference. Any bracket modifications shall not reduce the strength of the mounting bracket. Chassis alternator equipment available that is unable to meet electrical needs may be replaced by Delco/Remy, Mitsubishi, Leece-Neville, or PennTex that will meet system needs. Any non-Original Equipment Manufacturer (OEM) alternator equipment installed on a bus by the body manufacturer shall be covered by a minimum warranty period equal to the chassis OEM alternator warranty. It is the responsibility of the manufacturer (bus supplier) to match the alternator performance to the bus's electrical system needs.</li> <li>39) Engine Fast Idle</li> </ul>	Complies
The engine shall be equipped with fast idle control which	Complies
includes manual and automatic control features. Fast idle shall not activate unless the transmission control is in park (P). The control system shall have a manual switch, volt	Complies

sensor, an indicator light, and activate automatically from voltage sensors. The system shall automatically deactivate when bus is shifted into gear and when the bus foundation brakes are applied. Suggested source: Chassis manufacturer's equipment, Gateway by Intermotive Products, Penntex Model PX-HI-(mod no) with time out module, Vortec MD30-2500.	
40) Brakes	
a. The medium class one bus foundation brakes shall be a power-actuated hydraulic split system of a four wheel disc type with a three channel anti-lock braking system. The system shall be the heaviest-duty available for stop and go operation. The brake system shall include a red brake warning lamp (RBWL) in the instrument cluster that lights when the parking brake is on, when a front or rear hydraulic failure occurs, or when brake fluid is low in the reservoir and act as a low brake warning system. The parking brake shall be re-buildable and the heaviest-duty available from the chassis manufacturer.	Complies
<ul> <li>b. The medium class two bus foundation brakes shall be equipped with self-adjusting air brakes with a four channel anti-lock brake system. The Parking brake shall be activated by a push-pull knob located on the dash or a foot operated hand release. The air compressor shall be engine driven with a minimum capacity of 13CFM at 1250 RPM. The air brake system shall have an air dryer and air tanks that can be manually drained by standing outside the bus from one position.</li> <li>41) Fuel Tank</li> </ul>	Complies
<ul> <li>a. Fuel tank capacity shall be the largest size available for each chassis. Fuel fill shall not extend beyond the exterior surface of the bus and may have the fuel cap set in a recess similar to a Ford OEM unit. Fuel fill shall be on the street (left) side of the bus. Fuel tank capacity shall be minimum for the following chassis/buses: <ol> <li>Medium class one: 40 gallons</li> <li>Medium class two: 60 gallons</li> </ol> </li> </ul>	Complies
42) Hazard Flashers	
Hazard flashers shall use the OEM switch and control system with an electronic flasher.	Complies
43) Shock Absorbers	
Chassis shall have gas filled shock absorbers front and rear, most heavy-duty available from chassis manufacturer.	Complies
44) Springs and Suspension	
a. The chassis shall be equipped with a heavy-duty tapered leaf (parabolic) spring or coil spring front suspension to match the specified gross axle weight rating.	Complies
b. The medium class one buses shall be equipped with a heavy-duty rear suspension fitted with a rubber shear spring suspension that works in conjunction with the OEM chassis leaf spring suspension to match the specified gross axle weight rating. The added suspension shall consist of, a frame hanger assembly, and a carrier spring assembly, and shall be installed in place of the original spring hanger and shackle assembly. The frame hanger must bolt into the existing Original Equipment Manufacturer (OEM) spring hanger holes in the frame. The added suspension system must not alter the OEM gross axle weight rating. MOR/ryde <sup>®</sup> "RS" Suspension System.	Complies

C. The medium class two buses shall be equipped with a rear axle air ride suspension and shall have a spring-beam with air spring on each side with a capacity to match the axle weight rating. Rear air suspension shall use original chassis spring hangers, original axle clamp group, original shock absorbers, and suspension stabilizer (where equipped). The air suspension shall have a single valve for the rear axle height control. The air system shall be complete with its own air compressor, air lines, and reservoir tank(s) with manual spitter and drain valves with pull chains (Berg manual). The air system shall have a dash mounted air pressure gauge, warning light and warning buzzer. Suggested sources: Chassis OEM equipment.	Complies
45) Stabilizer	
Chassis shall have heavy-duty OEM suspension	
46) Wheels	
Bus wheels (6) shall be 19.5" x 6.75" minimum, steel disc, hub piloted type, 8-hole flange nut style. Wheels shall have all stainless steel or all brass valve stems a minimum of 1½" in length retained by threaded nuts fitted with stainless steel, steel or brass valve caps with an inner air seal. Wheels shall be OEM gray or white.	Complies
47) Tires	
<ul> <li><b>a.</b> All tires (6) shall be tubeless, steel radial blackwall, single front, and dual rear. All tires shall be high miler or all season tubeless. Suggested sources: Goodyear, Michelin XZA, Unisteel. The ratings (below) shall be the minimum to meet GVWR:</li> <li><b>i</b> Medium Class 1: 225/70R19.5 G/14</li> <li><b>ii</b> Medium Class 2: 245/70R19.5 F/12</li> </ul>	Complies
48) Driveshaft	
The multi-piece drive shaft shall have guards of sufficient strength to prevent any drive shaft section from striking the floor of the bus or the ground in the event of a tube or universal joint failure on all sections. Drive shaft guards, (OEM chassis equipment preferred, or may installed by the chassis manufacturer) shall be secured properly and be equal in materials and design to drive shaft guarding installed on a school bus chassis. If driveshaft requires extension, it shall be balanced, use the same manufacturer make and model. Driveshaft working angles shall meet OEM specifications.	Complies
49) Wipers and Horn	
Electric wipers shall be two speed, delay style, dual jet washers (electric), with manufacturer's standard arms and blades (OEM equipment preferred). Wiper motors shall be mounted for easy access and not interfere with other equipment mounted in the front bulkhead/cowl of the bus. Where individual wiper motors are used (one for each side), each shall be supplied by its own fused feed wire. The bus shall have two electric horns.	Complies
50) Radiator and Cooling System	
The cooling system shall have an extra cooling capacity radiator (aluminum or copper core), water pump, pulley, and clutch-type fan with coolant recovery system with a factory installed coolant filter (heavy duty system installed by chassis manufacturer). Cooling system shall be winterized with 50/50 mixture (minimum) of permanent antifreeze and distilled water or a factory premix (minimum -35°F freezing point). Radiator removal instructions and	Complies

51)	estimated removal time shall be furnished with first bus to each agency. Coolant integrity shall be maintained throughout the manufacturing process to insure that the coolant, including additives, in the delivered bus is equal to the coolant installed at the chassis OEM factory. All cooling system hose connections in the engine compartment shall use constant tension spring loaded band clamps (Breeze Constant-Torque <sup>®</sup> , Clampco Products Inc., Oetiker that automatically adjust for thermal expansion and contraction to control leakage. Fluids Fluids shall be checked and filled from inside front hood where application allows. Engine oil fill/check, transmission oil fill/check, and coolant fill/check shall be located for easy access per approval at pilot model integring.	Complies
52) I	Engine Cover and Trim	
a.	The engine cover shall be insulated from engine heat, engine noise, and road noise. Additional equipment added to the engine cover area shall not interfere with removal/installation of the engine cover.	Complies
b.	The buses shall be equipped with an OEM chrome trim package for the grill and front trim (if available).	Complies
53) I	Exhaust System	
	The exhaust shall exit the rear of the bus and be flush with the rear bumper. If bus is equipped with a rear lift door, the exhaust shall exit the rear of the bus on the street (left) side flush with left end of the rear bumper. The exhaust system shall meet FMVSS §393.83 and current Environmental Protection Agency (EPA) requirements. The exhaust system must be installed to provide maximum ground clearance and departure angle at the rear of the bus. Any exhaust system extensions shall be of the same material as OEM exhaust system, i.e. – stainless steel. All exhaust system extension hangers shall be OEM type.	For our exhaust hanger Forest River uses an aftermarket rubber isolated hanger. "OEM Style", are not offered.
54) \$	Safety Items	
a.	The following safety items shall be provided on each bus and items noted with an asterisk (*) shall be in a location approved by the state at pilot model inspection:	Complies
b.	*One UL listed 5 pound, 2A-10BC dry chemical fire extinguisher. Fire extinguisher shall have a metal head, a gauge to indicate state of charge, and a bracket with strap for securement. Fire extinguisher shall be serviceable and rechargeable for the life of the bus with metal mounting brackets. Fire extinguisher shall be shipped loose. Source: Manufacturer's Standard.	Complies
C.	*One container of bi-directional emergency reflective triangles that meets FMVSS 125 and shall be in a location easily accessible to the driver.	Complies
d.	*A 12-volt 97-db sealed solid state electronic warning alarm that is readily audible from <u>outside</u> the bus when transmission is in reverse. The alarm shall: be steam cleanable; have passed a 1 million cycle test; and meet SAE J994, OSHA, Bureau of Mines and all State Regulations. The alarm shall be mounted with bolts and properly grounded and mounted on the rear of the bus, above the bumper. Suggested source: OEM standard.	Complies

e.	*An exterior height (clearance) decal shall be mounted in the driver's dash area displaying the <b>ACTUAL</b> vehicle height.	Complies
f.	The rear door shall have an audible alarm at driver area that is energized when the rear door latch handle starts to open and when the rear door is locked with the ignition in the on or accessory position.	Complies
g.	An interlock system shall be provided to ensure that the bus cannot be moved when the lift is not stowed and that the lift cannot be deployed unless the interlock is engaged (to meet ADA regulation). The interlock system shall engage when the lift operation sequence is followed. Interlock operating instructions shall be included with each bus at delivery.	Complies
h. A i i	<ul> <li>A warning/engine shutdown system which shall be capable of monitoring oil pressure, engine temperature, and engine coolant level and which shall sound an alarm and shut down the engine when:</li> <li>Low oil pressure occurs.</li> <li>i High coolant temperature occurs.</li> </ul>	Complies
i	ii Low coolant level occurs.	
	The warning/engine shutdown system shall include an audible alarm (with warning light) and visual indicator lights (oil pressure, temperature, and the like) in the driver's area. The visual indicator lights shall be labeled to define the source of engine shutdown as a system diagnostic aid. The low coolant probe may be installed in the coolant surge tank but not in the coolant overflow/recovery container. Suggested sources: Chassis OEM, Murphy System.	
i.	An automatic daytime headlight control system shall be provided. The system shall illuminate the headlights when the ignition switch is on and the headlight switch is off. The system shall activate automatically after engine start up with the headlamp switch off and shall deactivate automatically when the headlamp switch is on or the ignition switch is turned off. Suggested source: Chassis OEM ONLY.	Complies
j.	A low profile electronic strobe light (white) with a clear lens and branch guard shall be provided. The light shall meet SAE J1318 requirements and be mounted centrally on the roof of the bus approximately 6 feet forward of the rear of the bus. Strobe light mounting shall have free access to connector with enough room to remove connector without removing any panels. The 12 volt light shall have a control switch in the driver's area. The light shall be approximately 4" in height, produce 80 ( $\pm$ 10) double flashes per minute, and have a light intensity of 1 million candlepower with a current draw of approximately 1 ampere. Suggested Sources: Meteorlite, Peterson, Target Tech Pulsator <sup>®</sup> 451, Truck-Lite	Complies per approved equal
55) E	Electrical	
a.	All exterior non-OEM connections shall be <u>WeatherPack</u> . <u>All interior connections shall be weather-proof to include</u> heat shrink where applicable.	Complies
b.	Lift equipped buses shall have a circuit breaker with a manual reset in the lift feed circuit. The circuit breaker shall be installed vertically (on the side wall) in the battery box, in the positive power cable leading to the lift power pack.	Complies
C.	Install a 12 volt power point for hand held equipment in the driver's area.	Complies

d.	All cable and wires added by the body manufacturer shall be continuous color coded and numbered or function coded. The manufacturer shall furnish complete as built wiring diagrams with integrated body and chassis wiring marked to show the codes used. Mating harnesses and harness connectors shall use matching wiring and coding unless chassis OEM wiring and coding is different from body manufacturer's. The wiring shall be designed to be a "plug and play" system where the harnesses and components are fastened through common standard terminal ends and connectors.	Complies
e.	Electrical panels installed by the body builders shall be located for easy access. Circuit breaker circuit protection shall be standard but blade type fuses may be used when expressly required by the component manufacturer. The master electrical panel shall use a separate "plug and play" connector and terminal system. Highest quality components available shall be used. Two spare electrical fuses that match fuses used on the bus body and chassis shall be supplied with the bus and stored in a box or spare circuit area at fuse box. All components shall be placed on the front of the electrical panel for ease of service.	Complies
f.	All wiring added to chassis fuse block shall be securely fastened to prevent wires from being knocked loose or loosening from vibration or interacting with moveable objects. The manufacturer shall use wire raceways where needed. Wiring, harnesses, and raceways shall be supported at regular intervals by "P" clamps, or by other supporting hangers where necessary, and routed in separate hangers from heater hoses or air conditioning hoses. Body fuse/electrical panel shall be sufficiently sealed to prevent intrusion of dirt and moisture.	Complies
g.	All wiring shall be heavy-duty; be properly grounded to body frame structure and the chassis; use a common grounding point; and be adequate for electrical system capacity. All wiring passage holes through engine cowl, floor area, and other partitions shall be thoroughly sealed to prevent dust and moisture intrusion and protected by grommets where they pass through structure.	Complies
h.	All accessories and accessory electrical equipment shall be wired through a constant solenoid or relays energized when the bus's ignition switch is in "ignition on" or "run" mode. A master switch with light in the driver's control panel shall control this constant solenoid/relay and act as a quiet switch overriding individual switches for accessories. This master switch is wired in series with the ignition switch to control the constant solenoid/relay. The constant solenoid/relay shall not control headlights, taillights, emergency lights, charging system voltage regulator energizer lead, a fused power lead for the passenger door, and a fused constant power lead for all electronic control units' long-term memory.	Complies
i.	All control switches, relays, and circuit breakers used for the various electrical circuits shall have a current carrying capacity adequate for the circuit that they control and shall be properly marked for their function. The illuminated switch markings shall be permanent and not wear off with switch use. Control switches shall be positioned for easy access from driver's seat.	Complies
j.	All added wiring shall be installed in a properly sized and supported split open-type loom or a properly supported raceway for protection. All wiring harnesses shall have adequate length to allow for harness flexing from supporting brackets and where harnesses connect to electrical equipment. Any wiring added by splicing into an	Complies

		-
	existing chassis Original Equipment Manufacturer (OEM)	
	harness or wire shall match modification standards set	
	forth by the chassis manufacturer, such as Ford's QVM.	
	Any added accessories or electrical circuits shall not	
	interfere with nor back-feed into other electrical circuits.	
k	Wiring added from OEM chassis wiring to rear lights fuel	Complias
Π.	tank and/or other accessories shall be supported and	Complies
	retected from the ice and anow build up. Wiring shall be	
	incide hus where nearly has Mining to toillights and other	
	inside bus where possible. Winng to tailights and other	
	exterior lights shall be long enough to remove assembly	
	by 6" for service. Exterior connections shall be	
	weatherproof positive lock connectors coated with	
	dielectric grease. Suggested sources: Metri-pak,	
	Weather-Pak.	
Ι.	Scotch lock wire connectors are not acceptable and shall	Complies
	not be used for wiring installation. Terminals shall be as	•
	follows:	
i	Machine crimped on wire ends shall be used on all	
-	harnesses and cable assemblies used in the production	
	of huses. Harness assemblies shall have connectors	
	matching a mating connector where harnesses attach	
	to other barnesses, switches, or other electrical units	
	Connectiona mada in any harnaga assembly shall use	
	Sta Kan® diaganneate and anling connectors where	
	Sta-Konte disconnects and splice connectors where	
	Connectors abolt be preparity grimped with Ste Ker <sup>®</sup>	
	Connectors shall be properly crimped with Sta-Kon <sup>®</sup>	
	tools and covered with neat shrink tubing. In-line fuse	
	assemblies shall use spade type fuses in a weather-	
	Pak holder and shall be located for ease of service.	
i	All exterior wiring connectors (plug-ins) including	
	harnesses shall be weatherproof positive lock with the	
	connector pins applied with the proper crimping tool	
	(Weather-Pak, Metri-Pak). All exterior ground	
	connections, except factory supplied braided ground	
	straps, shall have properly applied terminal ends with	
	heat shrink insulation applied.	
56) E	quipment Options	
a.	Air Conditioning – Split System	
:	The size conditioning existen $(AC)$ shall have a concrete	Complias
1	The all conditioning system (AC) shall have a separate	Complies
	compressor, condenser, and evaporator for the from	
	The system and for the real system (two separate systems).	
	refrigerent type. Defrigerent types shall be the same	
	in OEM system and any additional (split rooften	
	ate ) system and any additional (spin, roonop,	
	elc., systems. The systems shall be of sufficient	
	stated in the test precedure for air conditioning systems	
	during summer operation (see section C	
	Vondor/Manufacturor Poquiromonte, subsection 3	
	Air Conditioning Certification)	
:	The front AC evidence about he integrated as next of the	Complias
1	I me mont AC system shall be integrated as part of the	Complies
	front neating/ventilating unit including the driver's area	
	evaporator unit (complete front system may be Chassis	
	OEINI WITH OEINI controls and sensors). The front	
	system shall provide temperature control with sufficient	
	cooling ventilators for driver comfort with no reliance on	
	the rear system for front temperature control. Front and	
	rear air flow and temperature shall be controlled by	
	separate switches on the driver's control panel or dash	
	panel. Front and rear systems shall have separate fan,	
	evaporator, and compressor controls.	1

iii	The rear system shall have an electronic control system capable of providing automatic temperature control, freeze protection, compressor protection, and diagnostic functions. The driver's automatic temperature and system control panel shall be mounted in the driver's station. The control system shall be an integral part of the system temperature controls. The system shall be able to monitor system voltage, high refrigerant pressure, low refrigerant charge, and clutch cycling intervals and shall protect the system by controlling compressor clutch engagement. The system shall be able to interpret associated problems and provide codes for technician diagnosis. Suggested sources: ACC Climate Control Model MDS, MCC ECO Temp Lite, Thermo King Clima Aire.	Complies
iv	Compressors: There shall be two engine mounted, serpentine belt driven air conditioning compressors of nominal 13cu. in. displacement each, minimum, one for the front system (may be chassis OEM) and one for the rear system. Hose end metal fittings connecting hoses to the compressor shall be electro-coated steel that pass the ASTM B117 480 hour Salt Spray test (see section C. Vendor/Manufacturer Requirements, subsection 8. Bid Documents, items v.). The compressor clutch circuit shall be interrupted when abnormal pressures are detected by the pressure monitoring switches. Low pressure switch shall be located between the expansion valve and the compressor in the low pressure side of the system. The high-pressure switch shall be properly located in the high side of the system to protect the compressor. Suggested sources: ACC Climate Control, American Cooling Technology, Inc., Thermo King, Trans/Air; MCC Mobile Climate Control	Complies
v	Condensers: The rear system's condenser shall be roof mounted (10" or less in height) and the front system may use the Chassis OEM radiator mounted condenser. The protective external grille work for the roof mounted condenser coil fins shall not be mounted directly against the condenser fins. The condenser fans and motors shall be enclosed within the condenser housing. The housing shall be galvannealed or aluminum with heat-fused powdered epoxy coating. The condenser coil shall be copper or aluminum tube expanded into aluminum fins or MCHX condenser. Hose end metal fittings connecting hoses to the condenser shall be electro-coated steel that pass the ASTM B117 480 hour Salt Spray test (see section C. Vendor/Manufacturer Requirements, subsection 8. Bid Documents, items v.). High pressure cut out switches shall be equipped with axial fans dynamically balanced with permanent magnet totally enclosed motors. The condensers shall blow air upward and toward the rear of the bus assisted by the forward motion of the bus. A filter dryer with a moisture indicating sight glass shall be included and located in the liquid line where easily accessible. A branch guard the same height as the condenser shall be mounted just forward of the condenser assembly on the roof of the bus which shall not restrict air flow into the condenser assembly. Suggested sources for roof mounted condenser: ACC Climate Control, American Cooling Technology, Inc., Thermo King, Trans/Air.; MCC Mobile Climate Control	Complies

<ul> <li>vi The front evaporator (may be chassis OEM equipment) and rear evaporator(s) shall have three-speed continuous duty permanently lubricated blower motors with sufficient CFM capacity to maintain interior temperature requirements stated in test procedure. The rear evaporator cores shall be a copper coil with aluminum fins (three rows deep, minimum), galvanized heavy-duty frame and coil end sheets with a galvanized or plastic drain pan. The rear evaporator expansion valve or orifice tube shall have "O" ring refrigerant connections. Suggested sources: ACC Climate Control, American Cooling Technology, Inc., Thermo King, Trans/Air; MCC Mobile Climate Control</li> </ul>	Complies
vii The driver's evaporator (may be chassis OEM equipment) shall be controlled separately from the rear passenger area evaporator. The controls shall include an on/off switch and a three-speed blower switch. The in-dash unit shall not interfere with removal or replacement of the engine cover or be blocked by the entrance door control mechanism.	Complies
viii The passenger area evaporator system shall be separately controlled from a control station at the driver's position. The controls shall include an on/off switch and a three-speed blower switch. The evaporator shall be ceiling or rear wall mounted at the rear of the passenger compartment.	Complies
<ul> <li>ix The components of the air conditioning system shall be readily accessible for maintenance. Service/charging ports shall be located under hood and accessible without removing any other component or item. The refrigerant hose construction shall comply/exceed SAE specification J2064 Type D or E. Refrigerant fitting construction shall comply/exceed SAE specification J2064 Type D or E. All refrigerant hose end fittings shall be electro-coated steel that will pass the ASTM B117 480 hour Salt Spray test (see section C. Vendor/Manufacturer Requirements, subsection 8. Bid Documents, items v.). The hose coupling end of all fittings shall include two hose barbs and two areas of elastomeric or HNBR seals. Refrigerant hose end fitting; and clamp the hose directly over the elastomeric or HNBR seals. Refrigerant hose end fitting; and clamp the hose directly over the elastomeric or HNBR seals. Refrigerant hose fittings shall be Aeroquip E-Z Clip system, ATCO Air-O-Crimp, MCC FlexCLIK.</li> </ul>	Complies
X The wiring shall meet all applicable specifications (see Section B.56.). The evaporator and condenser wiring (power and ground circuits) shall be properly sized to provide maximum voltage drop of 1.5v to farthest system component.	Complies
xi Air conditioning electrical circuits shall be protected with manual resettable circuit breakers or fuses.	Complies
<ul> <li>xii The rear air conditioning system shall be supplied from the equipment manufacturer as a complete unit including controls, wiring and hoses. The whole system shall be warranted from in-service date, by the manufacturer, for a period of two years with unlimited mileage.</li> </ul>	Complies
The rooftop AC system shall meet all of the	Complies
requirements of the AC split system except that the rear evaporator and heating unit shall be an integral part of	Complies

	the rooftop AC unit so that the condenser unit, evaporator unit, and heating unit are part of a single roof mounted unit. <b>Refrigerant types shall be the</b> <b>same in OEM system and any additional (split,</b> <b>rooftop, etc) systems.</b> A coolant circulating pump shall be installed in the coolant lines for the rooftop heating unit. The auxiliary coolant heating unit and coolant pump for the rooftop heating unit shall be connected electrically to run whenever the bus's rooftop unit calls for heat. The rooftop unit shall be a free blow system installed in the central roof area of the passenger compartment of the bus. The air conditioning/heating system shall be supplied from the equipment manufacturer as a complete unit including controls, wiring and hoses. Cover mount brackets and cover retaining bolds shall be stainless steel, not ¼ turn type. A branch guard shall be installed to protect the roof-mounted air conditioner. The whole system shall be warranted from in-service date, by the manufacturer, for a period of two years with unlimited mileage. Suggested Sources: ACC Climate Control, American Cooling Technology, Inc., Thermo King, Trans/Air.; <u>MCC Mobile Climate Control</u>	
C. A	uxiliary Air Heater	
i 	The auxiliary air heater systems provided shall be able to preheat, provide supplemental heat, and maintain heat for the interior of the bus for all engines. The auxiliary heater systems shall be supplied as a heated air model with an on/off, variable digital temperature display, and with a seven-day electronic timer control. The seven-day timer control shall be capable of a two hour preheat, minimum and be capable of continuous run control when the key is on with the engine running. The auxiliary direct heated air heater unit(s) shall be connected electrically to automatically run whenever the bus's rear heat exchanger fan is turned on. The system control units shall be located in the driver's area of the bus and shall indicate to the operator that the heater is operating normally or that the heater is not operating normally and needs technical service. The direct heated air heater control shall indicate heater diagnostic codes and descriptions directly from the heaters electronic control module. Heater control shall require no driver input. Heater control Suggested Source: ESPAR F1000 or F2000.	Complies
ii	The heater system shall be complete with all fuel and electrical controls, exhaust system, and standard warranty. All heaters shall be 12 volt units with a fused power supply and with protection for high and low voltage conditions. The auxiliary heater system shall meet FMVSS 301 fuel system integrity requirements. The heating units shall be fueled by the bus's primary fuel supplyeither gasoline or diesel. The electrical connection shall be a one piece harness from the control switch to the heating unit with weather-pak or equal exterior connections. Heater system shall be installed per manufacturer's instructions.	Complies
iii	The heated air model (with mounting brackets) shall be a self-contained unit placed in the passenger area either between the bus seat and bus floor or in a clear free space in the interior of the bus (placement shall be decided at the time of installation). The heated air system shall be a variable output, multi-stage heater for all engines. The heating unit shall have, 1) 16,000 BTU heat output, minimum (high heat setting), 2) 100 CFM	Complies

<ul> <li>of air delivery, minimum, and 3) automatic cycling between heat output stages. The unit shall have automatic overheat protection. All heater systems' fuel and exhaust connections shall be made outside the passenger compartment of the bus. The auxiliary heater exhaust shall be connected to a section of rigid exhaust pipe with a down sweep that exits just beyond the body side. The heating unit shall be fueled from the bus's primary fuel supplyeither gasoline or diesel. Suggested sources: Espar Inc., Webasto.</li> <li>iv Option 1: Provide an auxiliary air heater for a gas</li> </ul>	Complies
powered bus as specified above.	Ormuliar
V Option 2: Provide an auxiliary air heater for a diesel powered bus in lieu of the auxiliary coolant heater included with the diesel option. When an auxiliary air heater is installed on diesel powered buses, the engine shall be equipped with a 1000-watt 110-120 volt-A.C. OEM installed engine block heater with cord and covered receptacle. Engine block heater electrical cord receptacle shall be mounted for convenient access and protected from the weather (location to be determined at pilot model production).	Complies
d. Destination Signs	
<ul> <li><b>Option 1</b> – Roller/Curtain: A 12-volt destination sign with a motor driven movable sign curtain mechanism shall be provided which meets ADA requirements (one front sign and one side sign). The sign curtain shall be approximately 36" wide and illuminated. The sign box shall have a door to open for the operator to view the sign curtain position. The door shall be positioned for ease of driver operation. A restraint shall be installed to prevent the storage door from opening beyond 105° when the installation allows the door to swing open. Fifteen or less destinations shall be displayed. Suggest source: Transign LLC.</li> </ul>	Complies
<ul> <li><b>Option 2</b> – LED: A solid state, LED destination sign shall be provided which meets ADA requirements (one front and one side sign). Signs shall be programmable using latest version of Microsoft Windows<sup>®</sup> based software. All hardware and/or software shall be provided with the first bus purchased by each transit agency. Suggested sources: Transign LLC Destinator, TwinVision MobiLite.</li> </ul>	Complies
e. Donation Box	
A donation box (in lieu of the farebox) shall be mounted on an adequately braced stanchion; shall be located over a flat floor surface near the driver; and shall be accessible to passengers entering the bus (meet ADA requirements). The lockable donation box shall be supplied with two keys (location shall be approved by the State at pilot model inspection). Suggested source: Diamond.	Complies
f. Farebox Electrical Prep	
Electrical connections and wiring only (no farebox) along with support stanchion shall be supplied to the area where the standard farebox would be mounted (location shall be approved by the State at pilot model inspection) g. Limited Slip Differential	Complies
The limited slip differential powers both wheels vet	Complias
freely permits wheel speed differentiation when required during turning using standard OEM equipment.	Complies

i	A bus equipped with a rear exit window shall have the window opening be approximately 1,200 square inches. The rear window shall have a latching device for opening from the inside of the bus which may be quickly released but designed to offer protection against accidental release. Lever-type latches shall be used for rear emergency exit windows and shall secure the windows tightly shut, shall be easily operated, and shall not unlatch due to vibration during normal bus operation. The latches shall be made of non-corrosive materials and be designed for minimal maintenance needs. The rear window exit shall meet federal requirements (FMVSS 217). The rear window exit shall have an audible alarm at the driver's area energized when the window starts to open with the ignition on. A clear full width path of 16" minimum height shall be placed in bus which restricts passageway to rear exit window. All emergency exits shall be marked with instructions for proper use.	Complies
ii	The bus rear exit window shall have a statically applied wide angle view Fresnel lens to improve vision directly	Complies
	in back of bus. Minimum size shall be 80 square	
i. P	aint – Optional Designs	
i	The bus shall have an 11" belt painted stripe (no decals). An example would be: an OEM white bus with a 11" belt stripe.	Complies
ii	The bus shall have the roof painted a different color. An example would be: an OEM white bus with the roof painted red.	Complies
iii	The bus shall be painted a full body color, including the roof, other than OEM white. An example would be: a bus painted all red.	Complies
iv	The bus shall have a 6", 10-year, reflective, vinyl belt stripe. An example would be: an OEM white bus with a 6" vinyl belt stripe.	Complies
j. L	ifts (Platform) (Meet ADA Requirements)	
i	All lifts listed below shall meet all of the lift requirements stated in section B. Body Structure and Exterior Panels, subsection 26. Type I Lift, except lifts that have an 800 lb capacity (in lieu of the standard Type I lift)	Complies
ii	Type I: A type I platform lift shall be offered in lieu of the standard 1,000 lb lift. Suggested sources: Braun, Ricon	Complies
iii	Type II; The Type II platform lift shall have a power operated outer barrier on the lift platform. Suggested sources: Braun, Ricon	Complies
iv	Folding Platform: The folding platform lift shall have a platform that folds in the center during stowage and the lift platform is 34" usable width. The folding platform lift provides an unobstructed view from inside the bus through the lift opening. Suggested Sources: Braun Vista-2	Not available – Discontinued Model
v	An alternate 1,000 lb. lift manufacturer shall be offered as an option for agencies.	N/A
k. V	/heelchair Securement Optional Systems	
i	The restraint system shall be a retractor style system and comply with ADA, SAE J-2249, and additionally the new 2016 WC 18 standard for WC-19 wheelchairs. This system shall be a single point securement system and	Complies

meet the same requirements as listed in section B. Body Structure and Exterior Panels, subsection 27. Wheel Chair Securement Area. Single Point Securement System: A wheelchair single point securement system (in lieu of "L" track anchorage system) shall offer 360 degree directional usage "pucks" and shall be cast stainless steel with a 2 1/2" bolt to be secured to the floor positions. Measurement of the securement locations shall be 54" from center to center within the securement locations. The single point securement system shall meet the same requirements as listed in section B. Body Structure and Exterior Panels, subsection 27. Wheel Chair Securement Area. Center pucks between securement locations can share the same center of plane but the pucks shall not be shared from each securement locations. (i.e. separate single point securement systems for each wheelchair securement area). Pucks for each location, Location #1 Location #2 etc., shall be identified with color coded debris/bolt covers available from the securement supplier. Spacing of front securement pucks shall be no less than 30". Spacing of rear securement pucks shall be centered in the rear plane of securement area 13"to 15" apart. Each securement space shall have an additional anchorage puck as to aid in the securement of scooters or difficult mobility devices. This additional anchorage puck shall be centered between the rear anchorages. Suggested Sources: QRT 360 Q'Straint Slide N' Click, Sure-Lok, Titan 800 Slide N' Click, OMNI Slide N' Click Systems or equivalent. ii Platform system: The system shall be a four-point, Complies recessed wheelchair securement station meeting WC-18, composed of a securement platform and an integrated three-point retractable lap and shoulder occupant restraint with height adjuster. The securement station shall be interlocked and have an illuminated electrical control that shall lock or unlock the 5 perpendicular automatic retractors in the securement station with the push of a single button by the operator. The system shall auto lock after a two-minute period but allow the operator to lock and unlock manually with the illuminated control as needed. An independent electrical back up release system shall be available in the event of a loss of the vehicles main power. All securement hooks shall be bright yellow in color with 3/4 inch wide webbing that have hydrophobic properties. The system shall have underside body protection from the elements either with an OEM metal subfloor or aftermarket pan. An occupant restraint stowage clip, and male buckle, shall be supplied on the wall or seating to stow when not in use and or prepare the occupant restraint for use. System shall include a placard in the vehicle. Supply a five-year warranty. Written instructions along with online visual operation instructions for training. Suggested source - Q' STRAINT ONE System part #Q11-0000 (LH- street side) and/or part# Q11-0001 (RH-curb side) or approved equal. Per Location's This system shall omit all securement stowage as noted in Section 27C as the system is self-contained. iii Additional Wheelchair Securement Positions: Ordering agencies shall have the ability to add additional wheelchair securement positions to the provided floor plans. The position shall match the same system as installed on the bus (L-track or 360-degree single point

	securement) and shall meet requirements as stated in section B. Body Structure and Exterior Panels, subsection 27. Wheelchair Securement Area and section B. Body Structure and Exterior Panels, subsection 56. Equipment Options, Item k. Wheelchair Securement Optional Systems. Seating shall be added or deducted to accommodate the additional wheelchair systems and shall meet vehicle weight requirements	
I. T\	wo Way Radio Antenna/Power	
i	All material and labor required for a pre-installation package for two-way radio equipment shall be furnished by the manufacturer. All equipment and accessories installed as part of the buses shall have no measurable radio frequency (RF) interference. All equipment installed on the bus must operate in its normal mode while radio transmissions are being made from an on board transmitter producing 100 watts or more of transmit power while operating in the range of 43 Megahertz (Mhz) to 900 Mhz. Proper RF suppression shall be provided by the manufacturer in any equipment and accessories that can produce interference to eliminate such interference. The bus frame and body shall be designed to provide no measurable radio interference (shielding) for improved radio emissions and reception performance.	Complies
ii	Two (2) antenna mounting plates (.060" steel minimum) shall be mounted in the roof of the bus for the purpose of providing a connection to the ground plane and providing a secure mount for the antenna. On buses with a metal exterior skin, one plate shall be mounted forward of the roof escape hatch on the roof center line and the second plate shall be mounted to the left (driver's side) of the first plate just above the bus side window. Each mounting plate must be properly positioned in relation to its ground plane to ensure proper operation of an antenna installed at that mounting plate shall be no more than ½".	Complies
iii	Two (2) antenna ground planes, which are required for proper antenna operation, shall be mounted in each bus. All ground planes shall be radio frequency (RF) grounded to the chassis structure using high corrosion resistance and high conductivity braided ground straps of the proper size (3/8" minimum width). Ground planes shall provide a comparable area of radio transmission coverage whether buses have a metal exterior body covering or have a FRP composite exterior. At each antenna access opening and mounting plate area, the ground planes shall be of proper size and shape for proper communication operations. The ground planes shall be a solid piece and operate over the range of frequencies from 43 Mhz to 900 Mhz. The ground plane material used by the manufacturer must be a durable material that can be connected to the antenna mounting plate and grounded to the chassis frame. The ground plane shall be of the proper size to protect passengers in the bus from unnecessary radiation from the transmitting antenna at the bus's antenna access openings.	For our ground planes, we use a 10GA wire to ground the metal plane to the body of the vehicle rather than a braided strap.
iv	Two threaded type access holes with covers	Complies
14	approximately 6" in diameter shall be installed at the following antenna mounting plate locations:	Joinpies

<ol> <li>The interior ceiling forward of the roof escape hatch.</li> <li>For buses with metal exterior skin directly to the left (driver's) side above the side window line of the bus.</li> </ol>	
v Two-way radio antenna shall be mounted in location specified by ordering entity.	Complies
<ul> <li>vi 12-Volt Power for the Two-Way Radio - The positive lead (red 8 ga wire fused at 40 amperes) for the radio connection shall be provided directly from the battery positive post. The ground lead (black, 8 ga) shall be connected directly to the chassis frame with a bolt, external tooth lock washers, and nut for fastening. Proper suppression equipment shall be incorporated in the bus's electrical system to eliminate interference with radio and television transmission and reception shall not cause interference with any electronic system on the bus. The radio power and ground leads shall terminate directly behind the driver's seat with 12 feet of extra length extending into the bus interior.</li> </ul>	Complies
<b>vii</b> Two (2) 12 volt ignition feeds shall be provided.	Complies
<b>viii</b> A split loom or other flexible wire race-way (1" minimum) shall be installed from the radio location to the dash mounted microphone control location.	Complies
ix The modesty panel behind the driver shall be used for radio mounting and shall be constructed to support 60 pounds of weight. To provide for radio mounting, a 5" minimum distance shall be provided between the driver's seat and the modesty panel when the driver's seat is in its most rearward travel position.	Complies
m. Stereo/Radio and Public Address System	
<ul> <li><b>Option 1:</b> An AM/FM stereo radio system shall be installed in the dashboard area within reach of the driver. At a minimum, the stereo system shall have an illuminated or LCD display along with controls for power, tuning, volume, and the ability to turn off sound to the rear speakers. A total of four (4) speakers shall be installed in the bus with two (2) speakers mounted in the front (audible to the driver and front passengers) and two (2) speakers mounted in the top rear wall of the bus. Suggested sources: OEM</li> </ul>	Complies
<ul> <li><b>Option 2:</b> A stand-alone public address (PA) system shall be installed in the dashboard area within reach of the driver and utilize a handheld microphone. At a minimum, the PA system shall be equipped with controls for power and volume. A total of two (2) speakers shall be mounted with one in the front and one in the top rear wall of the bus. Suggested sources: Custom Radio Corporation model PA6, Jensen, Mobile Page Model 470, REI</li> </ul>	Complies
iii Option 3: A combined AM/FM stereo radio and a public address system shall be installed with four (4) speakers. The combined system shall meet or exceed the specifications outlined in option 1 and option 2. The speakers shall be mounted per locations specified in option 1. Suggested Sources: Jensen, Panasonic, REI	Complies
iv Option 4: Additional speakers shall be offered at locations requested by the ordering agency.	Complies
n. Entrance Stepwell Heater	
The entrance stepwell shall include a 12-volt electric heating element/unit for the lower step to prevent icing of entrance steps. The low voltage step heater shall consist of one or more wire elements laminated and vulcanized	Complies

between two plies of 026" silicone rubber impregnated	
fiberglass cloth to maintain an approximate temperature of	
1600 E with a low temperature (200E) appains switch	
(Suggested sources) Litre Heat or Warm Walsome by	
(Suggested Sources, Oilla Heat of Wallin Welcome® by	
Lighthouse International, Ltd.). The entire lower step	
neating unit with power wires shall be enclosed between	
the stepwell and the step tread (beneath the step tread) of	
the lower step. Lead wires shall be loomed, supported by	
brackets, and protected by grommets where they pass	
through structure. The heaters shall be thermostatically	
controlled.	
o. Electric Driveline Brake (Retarder)	
The bus shall be equipped with a self-air-cooled eddy	
aurrent electric driveling broke (retarder). Main	Complies
current electric drivenne brake (retarder). Main	
components of the blacke shall be electromagnets (blacke	
cons) lixed to the bus frame, two vented fotors, and a	
controller. The brake shall be mounted between the	
transmission and the rear axie. The brake shall be of	
sufficient capacity to match the bus GVWR. The brake	
control that energizes the brake coils shall be either	
electronic or mechanical and be compatible with ABS	
brakes (retarder deactivates when ABS controls wheel	
rotation). The controller shall be activated by stage	
switches engaged by brake pedal movement. Suggested	
sources: Telma	
p. Seating (Additions and Deductions)	
i On hugan with a room out window forward facing	Complian
I On buses with a rear exit window, forward facing	Compiles
seating for five passengers shall replace two double	
place forward facing seats at the rear wall of the	
passenger compartment increasing the passenger	
capacity by one. The five passenger seating shall be	
available for buses without a lift or with the lift forward	
of the rear axle (no wheelchair lift and/or securement	
location at the rear of the bus). The five passenger	
seat shall be 88" minimum width and shall not be	
equipped with grab handles.	
ii The Ordering entity shall have the ability to add or	Complies
deduct seats from the provided floor plans	••••••
All additional transit style seats shall be of the same	Complies
design and color as the other passenger seats, shall be	
equipped with passenger seat belts, and shall meet	
requirements stated in section B. Body Structure and	
Exterior Panels, subsection 15. Driver's Seats, and	
subsection 18. Seat material.	
r. Alternative Engines	
i Gasoline: In lieu of a diesel engine on the medium	Complies
class one chassis the engine shall be a gasoline 1/ 9	Compilea
fuel injected (7 2) itre) minimum	
	<b>A</b>
11 Liquified Petroleum Gas (LPG) or Compressed	Complies
Natural Gas (CNG): In lieu of a diesel engine on the	
medium class one chassis, The bus shall accept	
liquefied petroleum gas (LPG) or compressed natural	
gas (CNG) application if required for fleet compliance	
by federal Environmental Protection Agency (EPA)	
alternate fuel application guidelines. The system shall	
have a 67GGE minimum capacity. The engine/chassis	
shall include a gaseous fuel preparation package and	
the cylinder heads shall have hardened valve seats.	
LPG systems shall be either bi-fuel or dedicated LPG	
per ordering entity choice. All LPG and CNG	
conversions shall maintain OEM powertrain warranties.	
iii On huses ordered with alternate fuels ontions (LDC	Complies
CNC, etc.) auxiliary bacter systems installed chall meet	Complies
the same analiary neater systems installed shall meet	
ine same specifications for the systems operating on	

diesel fuel. Additionally, a diesel fuel tank shall be added with a minimum working capacity of 8 gallons with a 1 gallon reserve. All heated air models shall have a 12-volt heater booster pump installed in the coolant line forward of the first rear heater. Additional equipment needed for auxiliary heater shall be included in the option. Suggested sources: Bergstrom 863040	
t. Stop Request System	
An interior "Stop Requested" sign, chime, and driver signal activation system shall be installed, and activated by 1/8" diameter yellow cord mounted on the side wall even with the bottom of the tip-in-transom portion of the windows. Signal touch buttons mounted in an ADA mandated wheelchair accessible area shall be no higher than 4' above the floor, with no exposed wiring. A single "stop request" chime shall sound when the system is first activated and a tell-tale light indicator on the driver console will stay light continuously until the passenger door is opened. A double chime shall sound when the system is first activated from wheelchair passenger areas.	Complies
<ul> <li>ii A "Stop Requested" message in Helvetica medium red letters on a clear plexiglass background shall be illuminated when the passenger "Stop Requested" system is activated. The "Stop Requested" message shall remain visible until doors are opened. The sign unit shall be flush mounted on the front destination compartment door and the message shall be visible to the seated operator and all seated passengers. The operator shall be able to deactivate the signal system from the operator's area as well as automatic deactivation each time the passenger door is opened.</li> <li>u. Back-up Sensor System</li> </ul>	Complies
A rear back-up sensor system shall be installed with a	O amarila a
<ul> <li>A real back-up sensor system shall be instand with a minimum of four water-resistant and corrosion resistant sensors flush-mounted to the rear bumper (painted to match the bumper). The system shall automatically engage when the vehicle is in reverse and warn of objects and/or people up to a distance of seven feet (minimum). The system shall utilize an LED monitor, mounted within view of the driver, which displays the distance (in feet) from the object(s). The system shall also emit a pulsating alarm or beep that is audible to the driver as the vehicle approaches the object(s) and then the system shall emit a steady alarm within at a minimum of 1.5 feet from the object(s). Suggested Sources: Ackton Transportation Technologies, American Road Products, Intermotive Hawkeye, or Rosco BSSK1001</li> </ul>	Complies
v. video Surveillance System	
I The onboard digital video surveillance system shall include a six channel (minimum) mobile rated digital video recorder (DVR) that can be configured for a one to six camera system. The on-board DVR System shall include a lockable/removable one (1) terabyte (minimum) hard disk drive caddy. USB data ports, a 10/100base-T Ethernet port, eight vehicle sensor inputs, a GPS input and one accelerometer input. The DVR shall begin recording at the start of the "engine run" switch of the vehicle or be programmable to begin recording at a specified time prior to "engine run" switch being activated. The DVR can remain functional up to 99 minutes after the ignition has been turned off, and shall record continuously without operator assistance. The DVR shall be able to retrieve video by alarm, calendar based date time and camera search	Complies

	functions. The DVR shall be capable of a display resolution configurable up to 1080p The DVR shall be constructed with a rugged outer housing that protects against shock, moisture and dust.	
ii	An accelerometer shall document hard breaking and other erratic driving events. A panic button or event marker shall also be installed within reach and view of the driver.	Complies
iii	Sensors shall record bus signals including turn, hazards lights, and lift operations at a minimum.	Complies
iv	A GPS receiver shall continuously monitor bus location, heading, and speed, as well as configurable and automatic time and date synchronization.	Complies
v	Microsoft <sup>®</sup> Windows compliant viewing software shall be included with the first bus delivered to the agency. Software shall be able to view and search video from the hard drive, display a GPS map, graph speed, and save the videos.	Complies
vi 1. 2. 3. 4. 5.	Interior and exterior cameras shall be full color, high definition, wide angle (minimum 120°) infrared and shall supply an image that is clear and stable, free from vibration. Images shall be able to be used to positively identify a passenger riding in a vehicle. The interior cameras shall also have a high sensitivity microphone. Ordering agencies shall have the flexibility to position cameras. Below is a list of interior locations and optional cameras: Two Camera System: A two camera system shall be provided capturing the driver, passengers, stepwell, and farebox/donation box at a minimum. Four Camera System: The four camera system shall include the camera locations listed in option one and include a cameras capturing wheelchair lift and a rear passengers at a minimum. Six Camera System: A six camera system shall include an eight channel (minimum) DVR and a one (1) terabyte minimum hard drive. Camera locations shall be the same as the two and four camera systems with the addition of another interior camera (located at the request of the ordering agency) and an exterior camera facing forward capturing the passenger door. Additional Interior Cameras: Ordering agencies shall have the ability to order additional cameras and select a location at time of order. Additional cameras shall include all additional wiring and mounting hardware. Exterior Cameras: Ordering agencies shall have the ability to order exterior cameras and select a location at time of order. Additional cameras shall include all additional wiring and mounting hardware.	Complies
6.	Suggested sources: Radio Engineering Incorporated (REI) Bus Watch, SEON, Safety Vision, AngelTrax	
w. V	ideo Surveillance Preparation Package	Complies
i	A video surveillance preparation package shall be offered (less cameras and digital video recorder system) allowing for one to four camera locations. The preparation package shall include the installation of camera wiring or conduit, DVR electrical connections, location for the DVR, and access covers for camera mounting/locations. Ordering agency shall specify the camera system to use and have the flexibility to position cameras.	Complies

ii Vendor shall supply all materials.	Complies
x. Spare Tires	Complies
A spare tire option shall be offered for both the steer and drive axle tires if they are of different tread design. Spare tire shall match brand and specifications on delivered vehicle.	Complies
z. Entry Door Grab Handles	Complies
Each bi-folding entry door section shall have a yellow grab handle mounted midway up to assist passengers.	Complies
aa. Wheelchair Lift Barriers	Complies
Plexiglass barriers shall be installed on stanchions on both front and rear of lift to prevent pinch injuries in lift assembly.	Complies
bb. Back-up Camera System	Complies
Back-up camera system shall comply with all FMVSS 111 requirements. System shall include the following:	Complies
i. 7-inch LED color monitor with internal speakers, support up to three (3) cameras	Complies
<ul> <li>Rear camera shall at a minimum have audio, IP69K dust and water rating, built-in microphone, shock rating of 50g @11ms (vs. 100g in specs) minimum and vibration rating 2@ 10hz-1,0000Hz, 130 degree viewing angle minimum</li> </ul>	Complies
iii. Harness with heavy-duty twist lock connectors	Complies
iv. Two-year warranty on complete system	
C. VENDOR/MANUFACTURER REQUIREMENTS	
1) Bus Information Furnished	
reviewed at the pre-pilot model review meeting, at final pilot model production. Bus information identified by "*" shall also be supplied with each bus at delivery where indicated. All manuals shall be provided in an electronic copy (CD, DVD, or USB flash drive). The Contractor/manufacturer shall maintain record or proof that all bus information was supplied to the transit agency.	
a. Copy of manufacturer's statement of origin for a bus.	Hoekstra complies with this requirement
b. * Warranty papers for chassis, body, and additional equipment with each bus at delivery.	Hoekstra complies with this requirement
c. *Upfitters manual if available from OEM.	Hoekstra complies with this requirement
d. * As built drawings showing color coded wiring schematics of all electrical circuits, body, and chassis with each specific bus at delivery. Wiring drawings shall be in an electronic copy (CD, DVD, or USB flash drive) including all options.	Hoekstra complies with this requirement
<ul> <li>e. * Operator's manual for bus and all add-on equipment with each bus.</li> </ul>	Hoekstra complies with this requirement
f. * A complete set of repair manuals for the chassis and a manufacturer's parts manual for the body, and auxiliary equipment for the first bus of each model year delivered to each transit agency.	Hoekstra complies with this requirement
g. * Drivability and emissions manual for the first bus of each model year delivered to each transit agency.	Hoekstra complies with this requirement
h. * Bus operating instructions showing controls and operation for <u>the first bus</u> delivered to each transit agency and also in an electronic copy (CD, DVD, or USB flash drive).	Hoekstra complies with this requirement

i.	* Standard manufacturer's production option sheet(s)/decal(s) for chassis and body shall be installed in manufacturer's standard location, with no holes or rivets obscuring writing and numbers. Sheet shall include rear axle ratio. A paper copy of the service broadcast sheet for chassis shall also be provided with each bus.	Hoekstra complies with this requirement
j.	* Maintenance and inspection schedule incorporating the required maintenance and inspection of the basic bus and its subsystems (i.e., wheelchair lift) with each bus at delivery.	Hoekstra complies with this requirement
k.	* Proof of bus suspension alignment (work order or bill) at final bus inspection and with each bus. Four wheel alignment shall include adjustments to front and rear suspension and steering parts so that axle alignment, camber, caster, and toe settings are within manufacturer's desired limits.	Hoekstra complies with this requirement
١.	* Proof of undercoating (warranty) at final bus inspection and with each bus.	Hoekstra complies with this requirement
m.	* Front end and rear towing and lifting instructions with each bus.	Hoekstra complies with this requirement
n.	* Wheelchair securement product instructions and training program.	Hoekstra complies with this requirement
0.	* The bus manufacturer shall provide air conditioning system performance certification (see section C. Vendor/Manufacturer Requirements, subsection 3. Air Conditioning Certification).	Hoekstra complies with this requirement
р.	* The bus manufacturer shall provide test results that certify the performance of the heating/ventilating system (see section C. Vendor/Manufacturer Requirements, subsection 4. Heating/Ventilating Certification).	Hoekstra complies with this requirement
2)	Manufacturer Quality Control	
а.	Bus contractor/manufacturer shall provide a plan for quality control during bus construction and include the plan as part of the bid documents. Bus contractor/manufacturer shall also provide the name of the chief of quality control for bus construction.	Hoekstra complies with this requirement – Uploaded QAP
b.	The contractor shall establish and maintain an effective in-plant quality assurance organization. It shall be a specifically defined organization and should be directly responsible to the contractor's management and completely independent from production. The quality assurance organization shall exercise quality control over all phases of production from initiation of design through manufacture and preparation for delivery. The organization shall also control the quality of supply articles. The quality assurance organization shall verify inspection operation instructions to ascertain that the manufactured product meets all prescribed requirements. The quality assurance organization shall detect and promptly assure correction of any conditions that may result in the production of defective transit buses. These conditions may occur in design, purchases, manufacture, tests or operations that culminate in defective supplies, services, facilities, technical data, or standards. The contractor shall maintain drawings and other documentation that completely describe a qualified bus that meets all of the options and special requirements of this procurement. The quality assurance organization	Hoekstra complies with this requirement – Uploaded QAP

shall verify that each transit bus is manufactured in accordance with these controlled drawings and	
documentation.	
<ul> <li>accordance with these controlled drawings and documentation.</li> <li>The contractor shall ensure that all basic production operations, as well as other processing and fabricating, are performed under controlled conditions. Establishment of these controlled conditions shall be based on the documented work instructions, adequate production equipment, and special work environments if necessary. A system for final inspection and test of completed transit buses shall be provided by the quality assurance organization. It shall measure the overall quality of each completed bus. A system shall be maintained by the quality assurance organization for identifying the inspection status of components and completed transit buses. Identification may include cards, tags, or other quality control devices. Inspection stations shall be at the best locations to provide for the work content and characteristics to be inspected. Stations shall provide the facilities and equipment to inspect structural, electrical, hydraulic, and other components and assemblies for compliance with the design requirements. Stations shall also be at the best locations to inspect or test characteristics before they are concealed by subsequent fabrication or assembly operations. These locations shall minimally include, as practical, under-body structure completion, body framing completion, body prior to paint preparation, water test before interior trim and insulation installation, engine installation completion and presentation to resident inspectors. Tests shall be performed by the bus manufacturer to ensure that the unit is dustproof, water-tight, fumeproof, and that all bus fluids are per specifications. The quality assurance organization shall be responsible for presenting the completed bus to the resident inspectors. Sufficiently trained inspectors shall be used to ensure that all materials, components, and assemblies are inspected for</li> </ul>	Hoekstra complies with this requirement – Uploaded QAP
d The State and/or the Ordering Entity may be represented	Hoekstra complies with this requirement
at the contractor's plant by resident inspectors. They shall monitor, in the contractor's plant, the manufacture of transit buses built under this procurement. The contractor shall provide office space for the resident inspectors in close proximity to the final assembly area. This office space shall be equipped with desks, chairs, outside and interplant telephones, and other items sufficient to accommodate the resident inspector staff. Inspectors shall have lifting equipment available for raising vehicles for under vehicle inspections.	
3) Air Conditioning Certification	
a. The bus manufacturer shall provide air conditioning system performance certification at delivery (conducted by an independent laboratory, or testing agency, or the air conditioner manufacturer and supported by documentation of the actual test on the pilot model bus) that the air conditioning system installed in the bus meets or exceeds performance levels required by these	Comply as specified

	specifications. Tests shall be performed on all classes of buses.	
b.	The air conditioning system performance testing shall be conducted using a heating chamber of sufficient size to contain the basic bus, to heat soak the bus at 100°F for 4 hours minimum, to simulate sun load entering windshield, and to maintain 100°F exterior temperature continuously after heat soak during testing. <i>Four hour soak will</i> <i>commence once bus internal temperature reaches 100°F</i> . An interior temperature of 72°F (±3°F) must be reached within 30 minutes from the beginning of the test. Engine speed shall be maintained at 1300 RPM (± 200 RPM) during the test.	Comply as specified
с.	Instrumentation for temperature monitoring of the bus interior shall be a minimum of 3 points in the passenger area 30" above the floor - one in driver's area, and one at the mid-point of the bus, and one at the rear seat area. Evaporators' air inlet and air outlet temperatures shall be recorded. Instrumentation and recording equipment shall be able to monitor all points, record data at one minute intervals, and print a data report.	Comply as specified
4) I	Heating/Ventilating Certification	
а.	The bus manufacturer shall provide test results at delivery, that certify the performance of the heating/ventilating system as installed in the bus meets or exceeds performance levels required by these specifications. Tests shall be performed on all classes of buses. The test should be conducted by an independent laboratory or testing agency and supported by documentation of the actual tests on the pilot model bus. Testing may be performed in natural cold climate conditions. Testing of the diesel engine equipped bus shall be deemed sufficient. Tests shall be performed on all classes of buses.	Comply as specified
b.	The bus will be cold soaked at $0^{\circ}F(+/-3^{\circ}F)$ for 4 hours minimum. An exterior temperature of $0^{\circ}F(+/-3^{\circ}F)$ shall be maintained during the test. An interior temperature of $64^{\circ}F(+/-3^{\circ}F)$ must be reached within 30 minutes from the beginning of the test. Engine speed shall be maintained at 1300 RPM (+/- 200 RPM) during the test. No dynamometer will be used.	Comply as specified
C.	Instrumented monitoring for the bus interior temperature to determine pass/fail, shall be a minimum of three points located front, center, and rear in the passenger area 30" above the floor. Additional monitoring points shall be; one in driver's area at knee level 22" above the floor, at front heater's air inlets and air outlets, and at rear heater's air inlets and air outlets. Other temperature monitoring points shall be: engine operating (coolant) at radiator; engine outlet to rear heater; rear heater return to engine; and exterior ambient.	Comply as specified
d.	Coolant flow shall be monitored from the engine outlet to the heaters only. Supplemental heat shall be supplied to raise engine to normal operating temperature. Supplemental heat shall be engaged 60 minutes prior to the start of the test. Instrumentation and recording equipment shall be able to monitor all points, record data at one minute intervals, and print a data report.	Comply as specified

	The State and/or the Ordering Entity reserves the right and shall be at liberty to inspect all material and workmanship at all times during the progress of the work, and shall have the right to reject all material and workmanship which do not conform to the specifications or accepted practice. Where a resident inspector is used, upon the request to the quality assurance supervisor, the resident inspectors shall have access to the Contractor's quality assurance files related to this procurement. These files shall include drawings, material standards, parts lists, inspection processing and records, and record of defects.	Comply as specified
6) 1	warranty	Comply as an alfied
a.	Warranty shall become effective on the date the bus is placed into service by the purchaser. Warranty service performed at the manufacturer's facilities at the manufacturer's request shall have all costs covered by the manufacturer. Warranty for the bus shall be the following as a minimum:	Comply as specified
b.	Two (2) years unlimited mileage on chassis.	Comply with RFP Specifications & Approved Equals
c.	OEM warranty on transmission.	Comply with RFP Specifications
d.	OEM warranty on engine.	Comply with RFP Specifications
e.	Three (3) years on body structure, exterior and paint.	Comply with RFP Specifications
f.	Eighteen (18) months on lift.	Comply with RFP Specifications
g.	All wiring shall be warranted for one 1 year from date of delivery.	Comply with RFP Specifications
h.	Manufacturer's standard warranty of one (1) year, minimum, on other add-on components and items.	Comply with RFP Specifications
i.	The chassis, body, and all add-on components shall be warranted by the successful contractor.	Comply as specified
7) I	Miscellaneous	
a.	The Contractor shall furnish the State with the delivery schedule of chassis to the Contractor and a delivery date of completed buses within 30 calendar days from date of order.	Comply as specified
b.	Any in-line equipment changes shall have prior written approval of the State.	Comply as specified
C.	The Contractor shall supply the bus turning radius: wheel-to-wheel and wall-to-wall.	Comply as specified
d.	The Contractor shall furnish warranty procedure instructions and necessary forms used by customers to obtain necessary warranty repairs.	Comply as specified
e. 8) I	The manufacturer(s) shall produce as the pilot model the first bus ordered by the State for its transit agencies. The bus shall be: 1) lift equipped, 2) air conditioned, and 3) the largest size on request by the transit agencies. All necessary testing and equipment placement shall be performed on the pilot models before final inspection/acceptance by the State (see Schedule A Statement of Work, section 6.5 Final Acceptance). The pilot model shall serve as a standard for the following units as ordered but shall not relieve the contractor from an obligation to manufacture all units in compliance with all specifications. Bid Documents	Comply as specified

The back	bidder shall supply the following with the bid quotation class of bus (if applicable). Failure to submit could t in a bid disqualification:	Understood
a.	The Michigan request for proposal (RFP) and bus	As specified – uploaded as RFP Instructions-Confidential
	specification forms completed in detail.	Treatment Form-Vendor Questions Worksheet.docx
b.	Bus floor plans indicating dimensions and showing the interior layout of the bus. The plan shall include wheelchair placement, stanchion locations, engineering calculated loaded bus axle weights, and be drawn to scale for all configurations.	As specified – uploaded as Floor Plans Class 1.pdf & Floor Plans Class 2.pdf
C.	Detailed engineering drawing for the design of the entrance door and door-opening device.	Door Assembly Drawings.pdf
d.	Detailed engineering drawing for the design of the entrance step configuration.	Stepwell Floor Drawings.pdf
e.	Roof, sidewall, and flooring drawings showing structure and structural specifications indicating metal size and type used. Include side sheathing and inside panels.	Stepwell Floor Drawings.pdf Roof Drawings.pdf Sidewall Drawings.pdf
f.	Manufacturer's chassis description (specifications).	Chassis Specs Class 1.pdf Chassis Specs Class 2.pdf
g.	Detailed engineering drawings of the body to chassis frame mounting.	Body Mount drawing.pdf
h.	All bidders must supply manufacturer's technical specifications for wheelchair lifts and wheelchair restraints. Manufacturer's sales literature is acceptable if it contains the technical specifications.	Wheelchair Lift and Securement Information.pdf
i.	The warranties for body, chassis, and drive train.	Warranty - Bustextil Vinyl.pdf Warranty Braun Lift.pdf Warranty Champion Bus.pdf Warranty Cummins BUS.pdf Warranty Freightliner.pdf Warranty Gerflor.pdf Warranty Q Straint.pdf
j.	If applicable, as required by Title 49 of the CFR, Part 663 – Subpart D, a copy of the manufacturer's self- certification information concerning the bus's compliance with relevant Federal Motor Vehicle Safety Standards (pre-award)	Pre-Buy America.pdf
k.	A copy of the Bus Rollover Protection Test (FMVSS 220) results of the bus offered as specified in the bid.	FMVSS 220.pdf
Ι.	Completed Schedule E - Federal Transit Administration (FTA) contract clauses shall be attached to bid quotation.	Schedule E - Federally Required Contract Clauses.pdf
m.	Buy America analysis of manufacturer's list of component and subcomponent parts (pre-award).	Pre-Buy America.pdf
n.	The technical data sheet including flammability and smoke emissions for the seat covering material supplied.	SEAT - Flame Smoke Toxicity vinyl.pdf
0.	Seat frame Salt Spray, humidity and impact resistance tests' results	Salt Test 480.pdf
р.	Certification test data showing that the seats, the seat belts, and the installation are in compliance with FMVSS- 207, 208, 209, and 210 where applicable for the bus model being offered in this bid.	Seat Frame Test Info.pdf FMVSS Forest River Certification 2023.pdf
q.	Technical data sheet for the seat cushion foam supplied.	Seat Foam Test.pdf

r.	Certification that the wiring and the switches for air conditioning and all add-on components are adequate to withstand transient loads expected.	Wire and Switch Certification.pdf
s.	Proof of valid motor vehicle dealer licensing from state, county, or municipality.	Dealer Agreement.pdf
t.	A copy of the dealer agreement between the Bus Manufacturer and the designated bidder.	Dealer License.pdf
u.	Certification that the bus model offered is a 7 year or 200,000 mile (medium Class I or II) bus and will meet the requirements of Federal Register Rules and Regulations 49 CFR Part 665, Bus Testing Program. Stating from § 665.13 Test Report and Manufacturer Certification, Section (b)(1), "A manufacturer of a new bus model or a bus produced with a major change in component or configuration shall provide a copy of the test report to a recipient during the point in the procurement process specified by the recipient".	Altoona 2017 F550 Champion.pdf Altoona F550 Forest River Champion Letter.pdf Altoona Ford 7.3L Engine Approval.pdf Altoona Freightliner.pdf ALTOONA TEST REPORT - F550 ALLSTAR XL SENATOR II HD-R.pdf
۷.	Certification for 480-hour salt spray test per ASTM procedure B-117.	Salt Test 480.pdf
w.	Certification for 1,000-hour salt spray test per ASTM procedure B-117.	Salt Test 1000.pdf
х.	480 hour ASTM D2247 Humidity Resistance test.	Salt Test 480.pdf
у.	<u>FULL</u> Altoona Test Report.	Altoona 2017 F550 Champion.pdf Altoona F550 Forest River Champion Letter.pdf Altoona Ford 7.3L Engine Approval.pdf Altoona Freightliner.pdf ALTOONA TEST REPORT - F550 ALLSTAR XL SENATOR II HD-R.pdf
Ζ.	Schedule F - Affidavit for Driver Delivery	Schedule F - Affidavit for Driver Delivery

#### Federal Register / Vol. 58, No. 201 / Wednesday, October 20, 1993 / Notices

1. Materials tested for surface flammability should not exhibit any flaming running, or flaming dripping.

54254

flaming dripping. 2. The surface flammability and smoke emission characteristics of seat cushion materials should be demonstrated to be permanent after testing according to ASTM D-3574 Dynamic Fatigue Tests I<sub>S</sub> (Procedure B).

B).
3. The surface flammability and smoke emission characteristics of a material should be demonstrated to be permanent by washing, if appropriate, according to FED-STD-191A Textile Test Method 5830.
4. The surface flammability and smoke emission characteristics of a material should

4. The surface flammability and smoke emission characteristics of a material should be demonstrated to be permanent by dry cleaning, if appropriate, according to ASTM D-2724. Materials that cannot be washed or dry-cleaned should be so labeled, and should meet the applicable performance criteria after being cleaned as recommended by the manufacturer.

 ASTM E-662 maximum test limits for smoke emission (specific optical density) should be measured in either the flaming or non-flaming mode, depending on which mode generates more smoke.

6. Flooring and Fire Wall assemblies should meet the period mean certiferia during a nominal test period determined by the transit property. The nominal test period should be twice the maximum expected period of time, under normal circumstances, for a vehicle to come to a complete, safe stop from maximum speed, plus the time necessary to evacuate all passengers from a vehicle to a safe area. The nominal test period should not be less than 15 minutes. Only one specimen need be tested. A proportional reduction may be made in dimensions of the specimen provided that it represents a true test of its ability to perform as a barrier against vehicle fires. Penetrations (ducts, piping, etc.) should be designed against acting as conduits for fire and smoke. 7. Carpeting should be tested in according with ASTM E-648 with its padding, if the padding is used in actual installation. 8. Arm rests, if foamed plastic, are tested

as cushions. 9. Testing is performed without upholstery.

#### **Definition of Terms**

1. Flame spread index  $(I_S)$  as defined in ASTM E-162 is a factor derived from the rate of progress of the flame front (F) and the rate of heat liberation by the material under test (Q), such that  $I_S=F_S\times Q$ .

2. Specific optical density  $(D_s)$  is the optical density measured over unit path length within a chamber of unit volume produced from a specimen of unit surface area, that is irradiated by a heat flux of 2.5 watts/cm<sup>2</sup> for a specified period of time.

3. Surface flammability denotes the rate at which flames will travel along surfaces.

4. Flaming running denotes continuous flaming material leaving the site of the during material at its installed location.

5. Flaming dripping denotes periodic dripping of flaming material from the site of burning material at its installed location.

#### **Referenced Fire Standards**

The source of test procedures listed in Table 1 is as follows:

(1) Leaching Resistance of Cloth, FKD-STD-191A-Textile Test Method 5830.

Availability from: General Services Administration Specifications Division, Building 197, Washington, Navy Yard, Washington, DC 20407.

(2) Federal Aviation Administration Vertical Burn Test, FAR-25-853.

Available from: Superintendent of Documents, US Government Printing Office, Washington, DC 20402.

(3) American Society for Testing Materials (ASTM)

(a)<sup>S</sup>Surface Flammability of Materials Using a Radiant Heat Energy Source, ASTM E-162;

(b) Surface Flammability for Flexible Cellular Materials Using a Radiant Heat Energy Source, ASTM D-3675;

(c) Fire Tests of Building Construction and Materials, ASTM E-119;

(d) Specific Optical Density of Smoke Generated by Solid Materials, ASTM E-662:

(e) Bonded and Laminated Apparel Fabrics, ASTM D-2724;

(f) Flexible Cellular Materials—Slab, Bonded, and Molded Urethane Foams, ASTM D-3574.

Available from: American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

In all instances, the most recent issue of the document or the revision in effect at the time of request should be employed in the evaluation of the material specified herein.

Issued: October 14, 1993.

Grace Crunican,

Deputy Administrator.

[FR Doc. 93-25709 Filed 10-19-93; 8:45 am]

54253

Category			N	
Caregory	Function of Material	Test Procedure	Performance Criteria	
Ī	Cushion <sup>1;2;3;5;9•</sup>	ASTM D-3675	I <sub>s</sub> ≤ 25	
		ASTM E-662	$D_{s}(1.5) \le 100; D_{s}(4.0) \le 200$	
	Frame <sup>1,5;8</sup>	ASTM E-162	I <sub>s</sub> ≤ 35	
Seating	ľ	ASTM E-662	$D_{s}(1.5) \le 100; D_{s}(4.0) \le 200$	
F	Shroud <sup>1;5</sup>	ASTM E-162	I <sub>s</sub> ≤ 35	
		ASTM E-662	$D_{s}(1.5) \leq 100; D_{s}(4.0) \leq 200$	
	Upholstery <sup>1;3;4;5</sup>	FAR 25.853 (Vertical)	Flame time $\leq$ 10 seconds; burn length $\leq$ 6 inches	
		ASTM E-662	$D_{s}(4.0) \leq 250$ coated; $D_{s}(4.0) \leq 100$ uncoated	
The second secon	Wall <sup>1,5</sup>	ASTM E-162	I <sub>s</sub> ≤ 35	
		ASTM E-662	$D_{s}(1.5) \le 100; D_{s}(4.0) \le 200$	
	Ceiling <sup>1;5</sup>	ASTM E-162	- I <sub>s</sub> ≤ 35	
	, .	ASTM E-662	$D_{g}(1.5) \le 100; D_{g}(4.0) \le 200$	
-	Partition 1;5	ASTM E-162	I <sub>s</sub> ≤ 35	
Panels		ASTM E-662	$D_{s}(1.5) \le 100; D_{s}(4.0) \le 200$	
	Windscreen <sup>1:5</sup>	ASTM E-162	. I <sub>s</sub> ≤ 35	
		ASTM E-662	$D_{s}(1.5) \le 100; D_{s}(4.0) \le 200$	
ľ	HVAC Ducting <sup>1;5</sup>	ASTM E-162	I <sub>s</sub> ≤ 35	
		ASTM E-662	D <sub>s</sub> (4.0)≤ 100	
	Light Diffuser <sup>5</sup>	ASTM E-162	I <sub>s</sub> ≤ 100	
		ASTM E-662	$D_{g}(1.5) \le 100; D_{g}(4.0) \le 200$	
Flooring	Wheel Well and Structural <sup>6</sup>	ASTM E-119	Pass	
	Carpeting <sup>7</sup>	ASTM E-648	$C.R.F. \ge 0.5 \text{ w/cm}^2$	
<u> </u>	Thermal <sup>1;3;5</sup>	ASTM E-162	I <sub>s</sub> ≤ 25	
Insulation	_	ASTM E-662	D <sub>s</sub> (4.0)≤ 100	
	Acoustic <sup>1;3;5</sup>	ASTM E-162	I <sub>s</sub> ≤ 25	
	· ·	ASTM E-662	$D_{s}(4.0) \leq 100$	
	Firewall <sup>6</sup>	ASTM E-119	Pass	
Miscellaneous	Exterior Shell <sup>1;5</sup>	ASTM E-162	I <sub>s</sub> ≤ 35	
	· · · · · · · · · · · · · · · · · · ·	ASTM E-662	$D_{i}(1.5) \le 100; D_{i}(4.0) \le 200$	

#### TABLE 1: RECOMMENDATIONS FOR TESTING THE FLAMMABILITY AND SMOKE EMISSION CHARACTERISTICS OF TRANSIT BUS AND VAN MATERIALS

• Refers to Notes on Table 1 - ----

## X. BUS SEATING ARRANGEMENTS

Standard non-lift buses and lift buses shall be supplied as requested in the following seating arrangements:

24-passenger (26 foot bus):

- A. 24 passenger without lift
  - i. 12 standard double forward facing seats
- **B.** 14+2 passenger with lift
  - i. 7 standard double forward facing seats
  - ii. 3 double foldaway forward facing seats
  - iii. 2 wheelchair positions
- **C.** 10+3 passenger with lift
  - i. 5 standard double forward facing seats
  - ii. 3 double foldaway forward facing seats
  - iii. 1 double forward facing flip seat
  - iv. 3 wheelchair positions
  - v. 1 fold-up side seat at curbside wheelchair position

28-passenger (29 foot bus):

- **D.** 28 passenger without lift
  - i. 14 standard double forward facing seats
- **E.** 18+2 passenger with lift
  - i. 9 standard double forward facing seats
  - ii. 3 double foldaway forward facing seats
  - iii. 2 wheelchair positions
- **F.** 14+3 passenger with lift
  - i. 7 standard double forward facing seats
  - ii. 3 double foldaway forward facing seats
  - iii. 1 double forward facing flip seat
  - iv. 3 wheelchair positions
  - v. 1 fold-up side seat at curbside wheelchair position
- **G.** 10+4 passenger with lift
  - i. 5 standard double forward facing seats
  - ii. 5 double foldaway forward facing seats
  - iii. 1 double forward facing flip seat
  - iv. 4 wheelchair positions
  - v. 1 fold-up side seat at curbside wheelchair position

32-passenger (32 foot bus):

- H. 32 passenger without lift
  - i. 16 standard double forward facing seats
- I. 22+2 passenger with lift
  - i. 11 standard double forward facing seats
  - ii. 3 double foldaway forward facing seats
  - iii. 2 wheelchair positions
- J. 18+3 passenger with lift
  - i. 9 standard double forward facing seats
  - ii. 3 double foldaway forward facing seats
  - iii. 1 double forward facing flip seat
  - iv. 3 wheelchair positions
  - v. 1 fold-up side seat at curbside wheelchair position
- K. 14+4 passenger with lift
  - i. 7 standard double forward facing seats
  - ii. 5 double foldaway forward facing seats
  - iii. 1 double forward facing flip seat
  - iv. 4 wheelchair positions
  - v. 1 fold-up side seat at curbside wheelchair position

Drawings for the suggested seating arrangements are supplied on the following pages.

# **Bus Floor Plans**

# 26 Foot



A. 24 Passenger bus without lift



B. 14+2 Passenger bus with lift



C. 10+3 Passenger bus with lift

# 29 Foot



D. 28 Passenger bus without lift



E. 18+2 Passenger bus with lift



F. 14+3 Passenger bus with lift



G. 10+4 Passenger bus with lift

# 32 Foot



H. 32 Passenger bus without lift



I. 22+2 Passenger bus with lift



J. 18+3 Passenger bus with lift



K. 14+4 Passenger bus with lift

Schedule E

Attachment number or letter

Michigan Department of Transportation 3652 (08/18)

### ROLLING STOCK MORE THAN \$150,000

Page 1 of 14

### ACCESS TO RECORDS AND REPORTS

Applicability – as shown below. These requirements do not apply to micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

The following access to records requirements apply to this Contract:

- 1. Where the purchaser is not a State but a local government and is an FTA recipient or a subgrantee of FTA recipient in accordance with 49 CFR 18.36(i), contractor shall provide the purchaser, the FTA, the US Comptroller General or their authorized representatives access to any books, documents, papers and contractor records which are pertinent to this contract for the purposes of making audits, examinations, excerpts and transcriptions. Contractor shall also, pursuant to 49 CFR 633.17, provide authorized FTA representatives, including any PMO contractor, access to contractor's records and construction sites pertaining to a capital project, defined at 49 USC 5302(a)1, which is receiving FTA assistance through the programs described at 49 USC 5307, 5309 or 5311.
- 2. Where the purchaser is a State and is an FTA recipient or a subgrantee of FTA recipient in accordance with 49 CFR 633.17, contractor shall provide the purchaser, authorized FTA representatives, including any PMO Contractor, access to contractor's records and construction sites pertaining to a capital project, defined at 49 USC 5302(a)1, which receives FTA assistance through the programs described at 49 USC 5307, 5309 or 5311. By definition, a capital project excludes contracts of less than the simplified acquisition threshold currently set at \$150,000.
- 3. Where the purchaser enters into a negotiated contract for other than a small purchase or under the simplified acquisition threshold and is an institution of higher education, a hospital or other non-profit organization and is an FTA recipient or a subgrantee of FTA recipient in accordance with 49 CFR 19.48, contractor shall provide the purchaser, the FTA, the US Comptroller General or their authorized representatives, access to any books, documents, papers and record of the contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts and transcriptions.
- 4. Where a purchaser which is an FTA recipient or a subgrantee of FTA recipient in accordance with 49 USC 5325(a) enters into a contract for a capital project or improvement (defined at 49 USC 5302(a)1) through other than competitive bidding, contractor shall make available records related to the contract to the purchaser, the Secretary of USDOT and the US Comptroller General or any authorized officer or employee of any of them for the purposes of conducting an audit and inspection.
- 5. Contractor shall permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.
- 6. Contractor shall maintain all books, records, accounts and reports required under this contract for a period of not less than three (3) years after the date of termination or expiration of this contract, except in the event of litigation or settlement of claims arising from the performance of this contract, in which case contractor agrees to maintain same until the recipient, FTA Administrator, US Comptroller General, or any of their authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto. Re: 49 CFR 18.39(i)(11). FTA does not require the inclusion of these requirements in subcontracts.

## BREACHES AND DISPUTE RESOLUTION

Applicability – all contracts more than \$150,000.

Disputes arising in the performance of this contract which are not resolved by agreement of the parties shall be decided in writing by the recipient's authorized representative. This decision shall be final and conclusive unless within ten (10) days from the date of receipt of its copy, contractor mails or otherwise furnishes a written appeal to the recipient's CEO. In connection with such appeal, contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the recipient's CEO shall be binding upon contractor and contractor shall abide by the decision. FTA has a vested interest in

#### MDOT 3652 (08/18)

the settlement of any violation of Federal law including the the False Claims Act, 31 U.S.C. § 3729. Performance During Dispute - Unless otherwise directed by the recipient, contractor shall continue performance under this contract while matters in dispute are being resolved. Claims for Damages - Should either party to the contract suffer injury or damage to person or property because of any act or omission of the party or of any of his employees, agents or others for whose acts he is legally liable, a claim for damages therefore shall be made in writing to such other party within ten days after the first observance of such injury or damage. Remedies - Unless this contract provides otherwise, all claims, counterclaims, disputes and other matters in question between the recipient and contractor arising out of or relating to this agreement or its breach will be decided by arbitration if the parties mutually agree, or in a court of competent jurisdiction within the residing State. Rights and Remedies - Duties and obligations imposed by the contract documents and the rights and remedies otherwise imposed or available by law. No action or failure to act by the recipient or contractor shall constitute a waiver of any right or duty afforded any of them under the contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach

#### **BUS TESTING**

### Applicability - all contracts more than \$150,000.

Contractor [manufacturer] shall comply with 49 USC A5323(c) and FTA's implementing regulation 49 CFR 665, to the extent they are consistent with 49 U.S.C. § 5318(e), as amended; and shall perform the following:

- 1. A manufacturer of a new bus model or a bus produced with a major change in components or configuration shall provide a copy of the final test report to the recipient prior to the recipient's final acceptance of the first vehicle.
- 2. A manufacturer who releases a report under para. 1 above shall provide notice to the operator of the testing facility that the report is available to the public.
- 3. If the manufacturer represents that the vehicle was previously tested, the vehicle being sold should have the identical configuration and major components as the vehicle in the test report, which must be provided to the recipient prior to the recipient's final acceptance of the first vehicle. If configuration or components are not identical, the manufacturer shall provide a description of the change and the manufacturer's basis for concluding that it is not a major change requiring additional testing.
- 4. If the manufacturer represents that the vehicle is "grandfathered" (has been used in mass transit service in the US before Oct. 1, 1988 and is currently being produced without a major change in configuration or components), the manufacturer shall provide the name and address of the recipient of such a vehicle and the details of that vehicle's configuration and major components.

CERTIFICATION OF COMPLIANCE WITH FTA'S BUS TESTING REQUIREMENTS The undersigned [Contractor/Manufacturer] certifies that the vehicle offered in this procurement complies with 49 U.S.C. A 5323(c) and FTA's implementing regulation at 49 CFR Part 665.

The undersigned understands that misrepresenting the testing status of a vehicle acquired with Federal financial assistance may subject the undersigned to civil penalties as outlined in the Department of Transportation's regulation on Program Fraud Civil Remedies, 49 CFR Part 31. In addition, the undersigned understands that FTA may suspend or debar a manufacturer under the procedures in 49 CFR Part 29.

CONTRACTOR / COMPANY NAME	
Hoekstra / Forest River Bus inc	

NAME TITLE AND SIGNATURE OF CONTRACTOR'S AUTHORIZED OFFICIAL:					
TYPE OR PRINT NAME	TITLE				
Mark Husted	Government sales Representative				
SIGNATURE	DATE				
Wal Africa	05/20/23				

#### **BUY AMERICA CERTIFICATION (ROLLING STOCK)**

Applicability – construction contracts and acquisition of goods or rolling stock (valued at more than \$150,000).

Construction Contracts and Acquisition of Goods or Rolling Stock (valued at more than \$150,000)

Contractor shall comply with 49 USC 5323(j) and 49 CFR 661, as amended by MAP-21 stating that Federal funds may not be obligated unless steel, iron and manufactured products used in FTA-funded projects are produced in the United States, unless a waiver has been granted by FTA or the product is subject to a general waiver. General waivers are listed in 49 CFR 661.7, and include software, microcomputer equipment and small purchases (currently less than \$150,000) made with capital, operating or planning funds. Separate requirements for rolling stock are stated at 5323(j)(2)(C) and 49 CFR 661.11 and as amended by Map-21 (5325). Rolling stock must be manufactured in the US and have a minimum 60% domestic content and adhere to contract term limitations. A bidder or offeror shall submit appropriate Buy America certification to the recipient with all bids on FTA-funded contracts, except those subject to a general waiver. Proposals not accompanied by a completed Buy America certification shall be rejected as nonresponsive. This requirement does not apply to lower tier subcontractors.

### Certificate of Compliance with Buy America Requirements.

The bidder or offeror hereby certifies that it will comply with the requirements of 49 U.S.C. 5323(j)(1), and the applicable regulations in 49 CFR part 661.

Only sign either Certificate of Compliance or Certificate of Non-Compliance

#### CONTRACTOR / COMPANY NAME

Forest River Bus inc.

## NAME, TITLE AND SIGNATURE OF CONTRACTOR'S AUTHORIZED OFFICIAL:

TYPE OR PRINT NAME			IIILE
Mark Husted	/	/	Government sales Representative
SIGNATURE	1/	1 77	DATE
	NACAF	and the second s	05/20/23
	10/20-11		

Only sign either Certificate of Compliance or Certificate of Non-Compliance

Certificate of **Non-Compliance** with Buy America Steel or Manufactured Products Requirements The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. 5323(j), but it may qualify for an exception to the requirement pursuant to 49 U.S.C. 5323(j)(2), as amended, and the applicable regulations in 49 C.F.R. 661.7.

CONTRACTOR / COMPANY NAME

## NAME, TITLE AND SIGNATURE OF CONTRACTOR'S AUTHORIZED OFFICIAL:

TYPE OR PRINT NAME		
SIGNATURE	L	DATE
#### CARGO PREFERENCE

Applicability - all contracts involving equipment, materials or commodities which may be transported by ocean vessels. These requirements do not apply to micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

Contractor shall: a. use privately owned US-Flag commercial vessels to ship at least 50% of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners and tankers) involved, whenever shipping any equipment, material or commodities pursuant to the underlying contract to the extent such vessels are available at fair and reasonable rates for US flag commercial vessels; b. furnish within 20 working days following the loading date of shipments originating within the US or within 30 working days following the loading date of shipments originating outside the US, a legible copy of a rated, "on-board" commercial bill-of-lading in English for each shipment of cargo described herein to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590 and to the recipient (through contractor in the case of a subcontractor's bill-of-lading.); c. include these requirements in all subcontracts issued pursuant to this contract when the subcontract involves the transport of equipment, material or commodities by ocean vessel.

## CIVIL RIGHTS REQUIREMENTS

Applicability - All contracts except micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

The following requirements apply to the underlying contract: The Recipient understands and agrees that it must comply with applicable Federal civil rights laws and regulations, and follow applicable Federal guidance, except as the Federal Government determines otherwise in writing. Therefore, unless a Recipient or Program, including an Indian Tribe or the Tribal Transit Program, is specifically exempted from a civil rights statute, FTA requires compliance with that civil rights statute, including compliance with equity in service: a. Nondiscrimination in Federal Public Transportation Programs. The Recipient agrees to, and assures that each Third-Party Participant will, comply with Federal transit law, 49 U.S.C. § 5332 (FTA's "Nondiscrimination" statute):

- a. FTA's "Nondiscrimination" statute prohibits discrimination on the basis of: (a) Race, (b) Color, (c) Religion, (d) National origin, (e) Sex, (f) Disability, (g) Age, or (h) Gender identity and (2) The FTA "Nondiscrimination" statute's prohibition against discrimination includes: (a) Exclusion from participation, (b) Denial of program benefits, or (c) Discrimination, including discrimination in employment or business opportunity, (3) Except as FTA determines otherwise in writing: (a) General. Follow: 1 The most recent edition of FTA Circular 4702.1, "Title VI Requirements and Guidelines for Federal Transit Administration Recipients," to the extent consistent with applicable Federal laws, regulations, and guidance, and 2 Other applicable Federal guidance that may be issued, but (b) Exception for the Tribal Transit Program. FTA does not require an Indian Tribe to comply with FTA program-specific guidelines for Title VI when administering its projects funded under the Tribal Transit Program,
- Nondiscrimination Title VI of the Civil Rights Act. The Recipient agrees to, and assures that each Third Party Participant will: (1) Prohibit discrimination based on: (a) Race, (b) Color, or (c) National origin, (2) Comply with: (a) Title VI of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000d et seq., (b) U.S. DOT regulations, "Nondiscrimination in Federally-Assisted Programs of the Department of Transportation - Effectuation of Title VI of the Civil Rights Act of 1964," 49 C.F.R. part 21, and (c) Federal transit law, specifically 49 U.S.C. § 5332, as stated in the preceding section a, and (3) Except as FTA determines otherwise in writing, follow: (a) The most recent edition of FTA Circular 4702.1, "Title VI and Title VI-Dependent Guidelines for Federal Transit Administration Recipients," to the extent consistent with applicable Federal laws, regulations, and guidance. (b) U.S. DOJ, "Guidelines for the enforcement of Title VI, Civil Rights Act of 1964," 28 C.F.R. § 50.3, and (c) Other applicable Federal guidance that may be issued,
- Equal Employment Opportunity. (1) Federal Requirements and Guidance. The Recipient agrees to, and assures that each Third Party Participant will, prohibit discrimination on the basis of race, color, religion, sex, or national origin, and: (a) Comply with Title VII of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000e et seq., (b) Facilitate compliance with Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order No. 11246, Relating to Equal Employment Opportunity," 42 U.S.C. § 2000e note, (c) Comply with Federal transit law, specifically 49 U.S.C. § 5332, as stated in section a, and (d) Comply with other applicable EEO laws and regulations, as provided in Federal guidance, including

#### MDOT 3652 (08/18)

laws and regulations prohibiting discrimination on the basis of disability, except as the Federal Government determines otherwise in writing, (2) General. The Recipient agrees to: (a) Ensure that applicants for employment are employed and employees are treated during employment without discrimination on the basis of their: 1 Race, 2 Color, 3 Religion, 4 Sex, 5 Disability, 6 Age, or 7 National origin, (b) Take affirmative action that includes, but is not limited to: 1 Recruitment advertising, 2 Recruitment, 3 Employment, 4 Rates of pay, 5 Other forms of compensation, 6 Selection for training, including apprenticeship, 7 Upgrading, 8 Transfers, 9 Demotions, 10 Layoffs, and 11 Terminations, but (b) Indian Tribe. Title VII of the Civil Rights Act of 1964, as amended, exempts Indian Tribes under the definition of "Employer". (3) Equal Employment Opportunity Requirements for Construction Activities. In addition to the foregoing, when undertaking "construction" as recognized by the U.S. Department of Labor (U.S. DOL), the Recipient agrees to comply, and assures the compliance of each Third Party Participant, with: (a) U.S. DOL regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 C.F.R. chapter 60, and (b) Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order No. 11246, Relating to Equal Employment Opportunity," 42 U.S.C. § 2000e note,

- d. Disadvantaged Business Enterprise. To the extent authorized by applicable Federal law, the Recipient agrees to facilitate, and assures that each Third-Party Participant will facilitate, participation by small business concerns owned and controlled by socially and economically disadvantaged individuals, also referred to as "Disadvantaged Business Enterprises" (DBEs), in the Project as follows: 1) Requirements. The Recipient agrees to comply with: (a) Section 1101(b) of MAP-21, 23 U.S.C. § 101 note, (b) U.S. DOT regulations, "Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs," 49 C.F.R. part 26, and (c) Federal transit law, specifically 49 U.S.C. § 5332, as stated in section a, (2) Assurance. As required by 49 C.F.R. § 26.13(a), (b) DBE Program Requirements. Recipients receiving planning, capital and/or operating assistance that will award prime third-party contracts exceeding \$250,000 in a Federal fiscal year must: 1 Have a DBE program meeting the requirements of 49 C.F.R. part 26, 2 Implement a DBE program approved by FTA, and 3 Establish an annual DBE participation goal, (c) Special Requirements for a Transit Vehicle Manufacturer. The Recipient understands and agrees that each transit vehicle manufacturer, as a condition of being authorized to bid or propose on FTA-assisted transit vehicle procurements, must certify that it has complied with the requirements of 49 C.F.R. part 26, (d) the Recipient provides assurance that: The Recipient shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of any DOT-assisted contract or in the administration of its DBE program or the requirements of 49 C.F.R. part 26. The Recipient shall take all necessary and reasonable steps under 49 C.F.R. part 26 to ensure nondiscrimination in the award and administration of DOTassisted contracts. The Recipient's DBE program, as required by 49 C.F.R. part 26 and as approved by DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as a violation of this agreement. Upon notification to the Recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under 49 C.F.R. part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. § 1001 and/or the Program Fraud Civil Remedies Act of 1986, 31 U.S.C. § 3801 et seq., (2) Exception for the Tribal Transit Program. FTA exempts Indian tribes from the Disadvantaged Business Enterprise regulations at 49 C.F.R. part 26 under MAP-21 and previous legislation,
- e. Nondiscrimination on the Basis of Sex. The Recipient agrees to comply with Federal prohibitions against discrimination on the basis of sex, including: (1) Title IX of the Education Amendments of 1972, as amended, 20 U.S.C. § 1681 et seq., (2) U.S. DOT regulations, "Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance," 49 C.F.R. part 25, and (3) Federal transit law, specifically 49 U.S.C. § 5332, as stated in section a,
- f. Nondiscrimination on the Basis of Age. The Recipient agrees to comply with Federal prohibitions against discrimination on the basis of age, including: (1) The Age Discrimination in Employment Act (ADEA), 29 U.S.C. §§ 621 634, which prohibits discrimination on the basis of age, (2) U.S. Equal Employment Opportunity Commission (U.S. EEOC) regulations, "Age Discrimination in Employment Act," 29 C.F.R. part 1625, which implements the ADEA, (3) The Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6101 et seq., which prohibits discrimination against individuals on the basis of age in the administration of programs or activities receiving Federal funds, (4) U.S. Health and Human Services regulations, "Nondiscrimination on the Basis of Age in Programs or Activities Receiving Federal Financial Assistance," 45 C.F.R. part 90, which

implements the Age Discrimination Act of 1975, and (5) Federal transit law, specifically 49 U.S.C. § 5332, as stated in section a,

- Nondiscrimination on the Basis of Disability. The Recipient agrees to comply with the following g. Federal prohibitions pertaining to discrimination against seniors or individuals with disabilities: (1) Federal laws, including: (a) Section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. § 794, which prohibits discrimination on the basis of disability in the administration of federally funded programs or activities, (b) The Americans with Disabilities Act of 1990 (ADA), as amended, 42 U.S.C. § 12101 et seq., which requires that accessible facilities and services be made available to individuals with disabilities, 1 General. Titles I, II, and III of the ADA apply to FTA Recipients, but 2 Indian Tribes. While Titles II and III of the ADA apply to Indian Tribes, Title I of the ADA exempts Indian Tribes from the definition of "employer," (c) The Architectural Barriers Act of 1968, as amended, 42 U.S.C. § 4151 et seq., which requires that buildings and public accommodations be accessible to individuals with disabilities, (d) Federal transit law, specifically 49 U.S.C. § 5332, which now includes disability as a prohibited basis for discrimination, and (e) Other applicable laws and amendments pertaining to access for elderly individuals or individuals with disabilities, (2) Federal regulations, including: (a) U.S. DOT regulations, "Transportation Services for Individuals with Disabilities (ADA)," 49 C.F.R. part 37, (b) U.S. DOT regulations, "Nondiscrimination on the Basis of Disability in Programs and Activities Receiving or Benefiting from Federal Financial Assistance," 49 C.F.R. part 27, (c) U.S. DOT regulations, "Transportation for Individuals with Disabilities: Passenger Vessels," 49 C.F.R. part 39, (d) Joint U.S. Architectural and Transportation Barriers Compliance Board (U.S. ATBCB) and U.S. DOT regulations, "Americans With Disabilities (ADA) Accessibility Specifications for Transportation Vehicles," 36 C.F.R. part 1192 and 49 C.F.R. part 38, (e) U.S. DOJ regulations, "Nondiscrimination on the Basis of Disability in State and Local Government Services," 28 C.F.R. part 35, (f) U.S. DOJ regulations, "Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities," 28 C.F.R. part 36, (g) U.S. EEOC, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 C.F.R. part 1630, (h) U.S. Federal Communications Commission regulations, "Telecommunications Relay Services and Related Customer Premises Equipment for Persons with Disabilities," 47 C.F.R. part 64, Subpart F, (i) U.S. ATBCB regulations, "Electronic and Information Technology Accessibility Standards," 36 C.F.R. part 1194, and (j) FTA regulations, "Transportation for Elderly and Handicapped Persons," 49 C.F.R. part 609, and (3) Other applicable Federal civil rights and nondiscrimination guidance,
- h. Drug or Alcohol Abuse Confidentiality and Other Civil Rights Protections. The Recipient agrees to comply with the confidentiality and civil rights protections of: (1) The Drug Abuse Office and Treatment Act of 1972, as amended, 21 U.S.C. § 1101 et seq., (2) The Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970, as amended, 42 U.S.C. § 4541 et seq., and (3) The Public Health Service Act, as amended, 42 U.S.C. § 290dd 290dd-2.
- Access to Services for People with Limited English Proficiency. Except as the Federal Government determines otherwise in writing, the Recipient agrees to promote accessibility of public transportation services to people whose understanding of English is limited by following: 1) Executive Order No. 13166, "Improving Access to Services for Persons with Limited English Proficiency," August 11, 2000, 42 U.S.C. § 2000d-1 note, and (2) U.S. DOT Notice, "DOT Policy Guidance Concerning Recipients' Responsibilities to Limited English Proficiency (LEP) Persons," 70 Fed. Reg. 74087, December 14, 2005,
- j. Other Nondiscrimination Laws. Except as the Federal Government determines otherwise in writing, the Recipient agrees to: (1) Comply with other applicable Federal nondiscrimination laws and regulations, and (2) Follow Federal guidance prohibiting discrimination.
- Remedies. Remedies for failure to comply with applicable Federal Civil Rights laws and Federal regulations may be enforced as provided in those Federal laws or Federal regulations.

#### **CLEAN AIR**

Applicability – all contracts more than \$150,000.

1. Contractor shall comply with all applicable standards, orders or regulations pursuant to the Clean Air Act, 42 USC 7401 et seq. Contractor shall report each violation to the recipient and understands and agrees that the recipient will, in turn, report each violation as required to FTA and the appropriate EPA Regional Office.

2. Contractor shall include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with FTA assistance.

#### **CLEAN WATER**

Applicability - all Contracts and Subcontracts more than \$150,000. Contractor shall comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq. Contractor shall report each violation to the recipient and understands and agrees that the recipient shall, in turn, report each violation as required to FTA and the appropriate EPA Regional Office. Contractor shall include these requirements in each subcontract exceeding \$100,000 financed in whole or in part with FTA assistance.

# CONTRACTS INVOLVING FEDERAL PRIVACY ACT REQUIREMENTS

Applicability - when a grantee maintains files on drug and alcohol enforcement activities for FTA, and those files are organized so that information could be retrieved by personal identifier, the Privacy Act requirements apply to all contracts except micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

The following requirements apply to the Contractor and its employees that administer any system of records on behalf of the Federal Government under any contract:

- 1. The Contractor agrees to comply with, and assures the compliance of its employees with, the information restrictions and other applicable requirements of the Privacy Act of 1974, 5 U.S.C. § 552a. Among other things, the Contractor agrees to obtain the express consent of the Federal Government before the Contractor or its employees operate a system of records on behalf of the Federal Government. The Contractor understands that the requirements of the Privacy Act, including the civil and criminal penalties for violation of that Act, apply to those individuals involved, and that failure to comply with the terms of the Privacy Act may result in termination of the underlying contract.
- 2. The Contractor also agrees to include these requirements in each subcontract to administer any system of records on behalf of the Federal Government financed in whole or in part with Federal assistance provided by FTA.

# **CONTRACT WORK HOURS & SAFETY STANDARDS ACT**

Applicability - contracts over \$150,000.

- 1) Overtime requirements No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.
- 2) Violation; liability for unpaid wages; liquidated damages In the event of any violation of the clause set forth in para. (1) of this section, contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in para. (1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in para. (1) of this section.
- Withholding for unpaid wages and liquidated damages the recipient shall upon its own action or 3) upon written request of USDOL withhold or cause to be withheld, from any moneys payable on account of work performed by contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours & Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in para. (2) of this section.
- Subcontracts Contractor or subcontractor shall insert in any subcontracts the clauses set forth 4) in this section and also a clause requiring the subcontractors to include these clauses in any

lower tier subcontracts. Prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in this section.

## DISADVANTAGED BUSINESS ENTERPRISE (DBE)

Applicability - contracts over \$3,500 awarded on the basis of a bid or proposal offering to use DBEs.

- a. This contract is subject to the requirements of Title 49, Code of Federal Regulations, Part 26, Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs. The national goal for participation of Disadvantaged Business Enterprises (DBE) is 10%. The recipient's overall goal for DBE participation is listed elsewhere. If a separate contract goal for DBE participation has been established for this procurement, it is listed elsewhere.
- b. The contractor shall not discriminate on the basis of race, color, religion, national origin or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of this contract. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the municipal corporation deems appropriate. Each subcontract the contractor signs with a subcontractor must include the assurance in this paragraph (see 49 CFR 26.13(b)).
- c. If a separate contract goal has been established, Bidders/offerors are required to document sufficient DBE participation to meet these goals or, alternatively, document adequate good faith efforts to do so, as provided for in 49 CFR 26.53.
- d. If no separate contract goal has been established, the successful bidder/offeror will be required to report its DBE participation obtained through race-neutral means throughout the period of performance.
- The contractor is required to pay its subcontractors performing work related to this contract for e. satisfactory performance of that work no later than 30 days after the contractor's receipt of payment for that work from the recipient. In addition, the contractor may not hold retainage from its subcontractors or must return any retainage payments to those subcontractors within 30 days after the subcontractor's work related to this contract is satisfactorily completed or must return any retainage payments to those subcontractors within 30 days after incremental acceptance of the subcontractor's work by the recipient and contractor's receipt of the partial retainage payment related to the subcontractor's work.
- The contractor must promptly notify the recipient whenever a DBE subcontractor performing work related to this contract is terminated or fails to complete its work, and must make good faith efforts to engage another DBE subcontractor to perform at least the same amount of work. The contractor may not terminate any DBE subcontractor and perform that work through its own forces or those of an affiliate without prior written consent of the recipient.

## DBE TRANSIT VEHICLE MANUFACTURER CERTIFICATION

Forest river bus inc		, a TVM,		
(Name of Manufacturer) hereby certifies that it has complied with the requirement of Section 26.49 of 49 CFR, Part 26 by submitting a current annual DBE goal to FTA. The goals apply to Federal Fiscal Year 2023 (October 1, 2022 to September 30, 2023) and have been approved or not disapproved by FTA. Hoekstra hereby certifies that the manufacturer of the transit				
(Name of Contract Vendor) vehicle to be supplied <u>Champion Bus Division of Forest River Bus inc</u> has complied with the above referenced (Name of Manufacturer) requirement of Section 26.49 of 49 CFR Part 26.				
MANUFACTURER	TITLE			
Forest River Bus Inc	Government sales R	Representative		
SIGNATURE		DATE 05/20/23		

#### **ENERGY CONSERVATION**

Applicability - all Contracts except micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

Contractor shall comply with mandatory standards and policies relating to energy efficiency, stated in the state energy conservation plan issued in compliance with the Energy Policy & Conservation Act.

#### FEDERAL CHANGES

Applicability - all Contracts except micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

Contractor shall comply with all applicable FTA regulations, policies, procedures and directives, including without limitation those listed directly or by reference in the Master Agreement between the purchaser and FTA, as they may be amended or promulgated from time to time during the term of the contract. Contractor's failure to comply shall constitute a material breach of the contract.

## FLY AMERICA REQUIREMENTS

Applicability - all contracts involving transportation of persons or property, by air between the U.S. and/or places outside the U.S. These requirements do not apply to micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

Contractor shall comply with 49 USC 40118 (the "Fly America" Act) in accordance with General Services Administration regulations 41 CFR 301-10, stating that recipients and subrecipients of Federal funds and their contractors are required to use US Flag air carriers for US Government-financed international air travel and transportation of their personal effects or property, to the extent such service is available, unless travel by foreign air carrier is a matter of necessity, as defined by the Fly America Act. Contractor shall submit, if a foreign air carrier was used, an appropriate certification or memorandum adequately explaining why service by a US flag air carrier was not available or why it was necessary to use a foreign air carrier and shall, in any event, provide a certificate of compliance with the Fly America requirements. Contractor shall include the requirements of this section in all subcontracts that may involve international air transportation.

# GOVERNMENT WIDE DEBARMENT AND SUSPENSION (NON-PROCUREMENT)

Applicability - all contracts more than \$25,000.

The Recipient agrees to the following:

- 1. It will comply with the requirements of 2 C.F.R. part 180, subpart C, as adopted and supplemented by U.S. DOT regulations at 2 C.F.R. part 1200, which include the following: (a) It will not enter into any arrangement to participate in the development or implementation of the Project with any Third Party Participant that is debarred or suspended except as authorized by: 1 U.S. DOT regulations, "Nonprocurement Suspension and Debarment," 2 C.F.R. part 1200, 2 U.S. OMB, "Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement)," 2 C.F.R. part 180, including any amendments thereto, and 3 Executive Orders Nos. 12549 and 12689, "Debarment and Suspension," 31 U.S.C. § 6101 note, (b) It will review the U.S. GSA "System for Award Management," http://https.www.sam.gov,.proxy1.semalt.design if required by U.S. DOT regulations, 2 C.F.R. part 1200, and (c) It will include, and require each of its Third Party Participants to include, a similar provision in each lower tier covered transaction, ensuring that each lower tier Third Party Participant: 1 Will comply with Federal debarment and suspension Management" at "System for Award the requirements, and 2 Reviews http://https.www.sam.gov,.proxy1.semalt.design if necessary to comply with U.S. DOT regulations, 2 C.F.R. part 1200.
- 2. If the Recipient suspends, debars, or takes any similar action against a Third Party Participant or individual, the Recipient will provide immediate written notice to the: (a) FTA Regional Counsel for the Region in which the Recipient is located or implements the Project, (b) FTA Project Manager if the Project is administered by an FTA Headquarters Office, or (c) FTA Chief Counsel.

CONTRACTOR / COMPANY NAME

Hoekstra / Forest River Bus Inc

# NAME, TITLE AND SIGNATURE OF CONTRACTOR'S AUTHORIZED OFFICIAL:

TYPE OR PRINT NAME	TITLE
Mark Husted	Government sales Representative
SIGNATURE 1	DATE
SIGNATURE	05/20/23
NACOFFE	

# INCORPORATION OF FEDERAL TRANSIT ADMINISTRATION (FTA) TERMS

Applicability - all contracts except micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

The preceding provisions include, in part, certain Standard Terms & Conditions required by USDOT, whether or not expressly stated in the preceding contract provisions. All USDOT-required contractual provisions, as stated in FTA Circular 4220.1F, are hereby incorporated by reference. Anything to the contrary herein notwithstanding, all FTA mandated terms shall be deemed to control in the event of a conflict with other provisions contained in this Agreement. The contractor shall not perform any act, fail to perform any act, or refuse to comply with any request that would cause the recipient to be in violation of FTA terms and conditions.

#### LOBBYING

Applicability - construction/architectural and engineering/acquisition of rolling stock/professional service contract/operational service contract/turnkey contracts over \$150,000.

Byrd Anti-Lobbying Amendment, 31 U.S.C. 1352, as amended by the Lobbying Disclosure Act of 1995, P.L. 104- 65 [to be codified at 2 U.S.C. § 1601, et seq.] - Contractors who apply or bid for an award of \$150,000 or more shall file the certification required by 49 CFR part 20, "New Restrictions on Lobbying." Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier shall also disclose the name of any registrant under the Lobbying Disclosure Act of 1995 who has made lobbying contacts on its behalf with non-Federal funds with respect to that Federal contract, grant or award covered by 31 U.S.C. 1352. Such disclosures are forwarded from tier to tier up to the recipient.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

CONTRACTOR / COMPANY NAME	
Hoekstra / Forest River Bus Inc	

# NAME, TITLE AND SIGNATURE OF CONTRACTOR'S AUTHORIZED OFFICIAL:

TYPE OR PRINT NAME	TITLE
Mark Husted	Government sales Representative
SIGNATURE / /	DATE
Controlle that	05/20/23

## NO GOVERNMENT OBLIGATION TO THIRD PARTIES

Applicability - all contracts except micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

1. The recipient and contractor acknowledge and agree that, notwithstanding any concurrence by the US Government in or approval of the solicitation or award of the underlying contract, absent the express written consent by the US Government, the US Government is not a party to this contract and shall not be subject to any obligations or liabilities to the recipient, the contractor, or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying contract.

2. Contractor agrees to include the above clause in each subcontract financed in whole or in part with FTA assistance. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

# PRE-AWARD AND POST DELIVERY AUDITS REQUIREMENTS

Applicability - any rolling stock procurement.

49 U.S.C. 5323/49 CFR Part 663

The Contractor agrees to comply with 49 U.S.C. § 5323(I) and FTA's implementing regulation at 49 C.F.R. Part 663 and to submit the following certifications:

- 1. Buy America Requirements: The Contractor shall complete and submit a declaration certifying either compliance or noncompliance with Buy America. If the Bidder/Offeror certifies compliance with Buy America, it shall submit documentation which lists 1) component and subcomponent parts of the rolling stock to be purchased identified by manufacturer of the parts, their country of origin and costs; and 2) the location of the final assembly point for the rolling stock, including a description of the activities that will take place at the final assembly point and the cost of final assembly.
- 2. Solicitation Specification Requirements: The Contractor shall submit evidence that it will be capable of meeting the bid specifications.
- 3. Federal Motor Vehicle Safety Standards (FMVSS): The Contractor shall submit 1) manufacturer's FMVSS self-certification sticker information that the vehicle complies with relevant FMVSS or 2) manufacturer's certified statement that the contracted buses will not be subject to FMVSS regulations.

# PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS OR RELATED ACTS

Applicability - all contracts except micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

- 1. Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 USC 3801 et seq. and USDOT regulations, "Program Fraud Civil Remedies," 49 CFR 31, apply to its actions pertaining to this project. Upon execution of the underlying contract, contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the underlying contract or FTA assisted project for which this contract work is being performed. In addition to other penalties that may be applicable, contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submittal, or certification, the US Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act (1986) on contractor to the extent the US Government deems appropriate.
- 2. If contractor makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submittal, or certification to the US Government under a contract connected with a project that is financed in whole or in part with FTA assistance under the authority of 49 USC 5307, the Government reserves the right to impose the penalties of 18 USC 1001 and 49 USC 5307(n)(1) on contractor, to the extent the US Government deems appropriate.
- 3. Contractor shall include the above two clauses in each subcontract financed in whole or in part with FTA assistance. The clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

#### PROMPT PAYMENT

Applicability - all contracts except micro-purchases (\$3,500 or less, except for construction contracts over \$2,000).

The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than 30 days from the receipt of each payment the prime contract receives from the Recipient. The prime contractor agrees further to return retainage payments to each subcontractor within 30 days after the subcontractors work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the Recipient. This clause applies to both DBE and non-DBE subcontracts.

#### RECYCLED PRODUCTS

Applicability - all contracts for items designated by the EPA, when the purchaser or contractor procures \$10,000 or more of one of these items during the current or previous fiscal year using Federal funds. The contractor agrees to comply with all the requirements of Section 6002 of the Resource Conservation and Recovery Act (RCRA), as amended (42 U.S.C. 6962), including but not limited to the regulatory provisions of 40 CFR Part 247, and Executive Order 12873, as they apply to the procurement of the items designated in Subpart B of 40 CFR Part 247.

#### TERMINATION

Applicability - all Contracts more than \$10,000, except contracts with nonprofit organizations and institutions of higher learning, where the threshold is \$150,000.

- a. Termination for Convenience (General Provision) the recipient may terminate this contract, in whole or in part, at any time by written notice to contractor when it is in the recipient's best interest. Contractor shall be paid its costs, including contract close-out costs, and profit on work performed up to the time of termination. Contractor shall promptly submit its termination claim to the recipient. If contractor is in possession of any of the recipient's property, contractor shall account for same, and dispose of it as the recipient directs.
- b. Termination for Default [Breach or Cause] (General Provision) If contractor does not deliver items in accordance with the contract delivery schedule, or, if the contract is for services, and contractor fails to perform in the manner called for in the contract, or if contractor fails to comply with any other provisions of the contract, the recipient may terminate this contract for default. Termination shall be effected by serving a notice of termination to contractor setting forth the manner in which contractor is in default. Contractor shall only be paid the contract price for supplies delivered and accepted, or for services performed in accordance with the manner of performance set forth in the contract. If it is later determined by the recipient that contractor had an excusable reason for not performing, such as a strike, fire, or flood, events which are not the fault of or are beyond the control of contractor, the recipient, after setting up a new delivery or performance schedule, may allow contractor to continue work, or treat the termination as a termination for convenience.
- Opportunity to Cure (General Provision) the recipient in its sole discretion may, in the case of a C. termination for breach or default, allow contractor an appropriately short period of time in which to cure the defect. In such case, the notice of termination shall state the time period in which cure is permitted and other appropriate conditions If contractor fails to remedy to the recipient's satisfaction the breach or default or any of the terms, covenants, or conditions of this Contract within ten (10) days after receipt by contractor or written notice from the recipient setting forth the nature of said breach or default, the recipient shall have the right to terminate the Contract without any further obligation to contractor. Any such termination for default shall not in any way operate to preclude the recipient from also pursuing all available remedies against contractor and its sureties for said breach or default.
- d. Waiver of Remedies for any Breach In the event that the recipient elects to waive its remedies for any breach by contractor of any covenant, term or condition of this Contract, such waiver by the recipient shall not limit its remedies for any succeeding breach of that or of any other term, covenant, or condition of this Contract.
- e. Termination for Convenience (Professional or Transit Service Contracts) the recipient, by written notice, may terminate this contract, in whole or in part, when it is in the recipient's interest. If the contract is terminated, the recipient shall be liable only for payment under the payment provisions of this contract for services rendered before the effective date of termination.
- Termination for Default (Supplies and Service) If contractor fails to deliver supplies or to perform f. the services within the time specified in this contract or any extension or if the contractor fails to comply with any other provisions of this contract, the recipient may terminate this contract for default. The recipient shall terminate by delivering to contractor a notice of termination specifying the nature of default. Contractor shall only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner or performance set forth in this contract. If, after termination for failure to fulfill contract obligations, it is determined that contractor

was not in default, the rights and obligations of the parties shall be the same as if termination had been issued for the recipient's convenience.

g. Termination for Default (Transportation Services) If contractor fails to pick up the commodities or to perform the services, including delivery services, within the time specified in this contract or any extension or if contractor fails to comply with any other provisions of this contract, the recipient may terminate this contract for default. The recipient shall terminate by delivering to contractor a notice of termination specifying the nature of default. Contractor shall only be paid the contract price for services performed in accordance with the manner of performance set forth in this contract. If this contract is terminated while contractor has possession of the recipient goods, contractor shall, as directed by the recipient, protect and preserve the goods until surrendered to the recipient or its agent. Contractor and the recipient shall agree on payment for the preservation and protection of

goods. Failure to agree on an amount shall be resolved under the Dispute clause. If, after termination for failure to fulfill contract obligations, it is determined that contractor was not in default, the rights and obligations of the parties shall be the same as if termination had been issued for the recipient's convenience.

- h. Termination for Default (Construction) If contractor refuses or fails to prosecute the work or any separable part, with the diligence that will insure its completion within the time specified, or any extension, or fails to complete the work within this time, or if contractor fails to comply with any other provisions of this contract, the recipient may terminate this contract for default. the recipient shall terminate by delivering to contractor a notice of termination specifying the nature of default. In this event, the recipient may take over the work and compete it by contract or otherwise, and may take possession of and use any materials, appliances, and plant on the work site necessary for completing the work. Contractor and its sureties shall be liable for any damage to the recipient resulting from contractor's refusal or failure to complete the work within specified time, whether or not contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the recipient in completing the work. Contractor's right to proceed shall not be terminated nor shall contractor be charged with damages under this clause if:
  - I. Delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of contractor. Examples of such causes include: acts of God, acts of the recipient, acts of another contractor in the performance of a contract with the recipient, epidemics, quarantine restrictions, strikes, freight embargoes; and
  - II. Contractor, within 10 days from the beginning of any delay, notifies the recipient in writing of the causes of delay. If in the recipient's judgment, delay is excusable, the time for completing the work shall be extended. The recipient's judgment shall be final and conclusive on the parties, but subject to appeal under the Disputes clauses. If, after termination of contractor's right to proceed, it is determined that contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if termination had been issued for the recipient's convenience.
- i. Termination for Convenience or Default (Architect & Engineering) the recipient may terminate this contract in whole or in part, for the recipient's convenience or because of contractor's failure to fulfill contract obligations. The recipient shall terminate by delivering to contractor a notice of termination specifying the nature, extent, and effective date of termination. Upon receipt of the notice, contractor shall

I. immediately discontinue all services affected (unless the notice directs otherwise), and

- II. deliver to the recipient all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated in performing this contract, whether completed or in process. If termination is for the recipient's convenience, it shall make an equitable adjustment in the contract price but shall allow no anticipated profit on unperformed services. If termination is for contractor's failure to fulfill contract obligations, the recipient may complete the work by contact or otherwise and contractor shall be liable for any additional cost incurred by the recipient. If, after termination for failure to fulfill contract obligations, it is determined that contractor was not in default, the rights and obligations of the parties shall be the same as if termination had been issued for the recipient's convenience.
- j. Termination for Convenience or Default (Cost-Type Contracts) the recipient may terminate this contract, or any portion of it, by serving a notice or termination on contractor. The notice shall state whether termination is for convenience of the recipient or for default of contractor. If termination is for default, the notice shall state the manner in which contractor has failed to perform the

#### MDOT 3652 (08/18)

requirements of the contract. Contractor shall account for any property in its possession paid for from funds received from the recipient, or property supplied to contractor by the recipient. If termination is for default, the recipient may fix the fee, if the contract provides for a fee, to be paid to contractor in proportion to the value, if any, of work performed up to the time of termination. Contractor shall promptly submit its termination claim to the recipient and the parties shall negotiate the termination settlement to be paid to contractor. If termination is for the recipient's convenience, contractor shall be paid its contract closeout costs, and a fee, if the contract provided for payment of a fee, in proportion to the work performed up to the time of termination. If, after serving a notice of termination for default, the recipient determines that contractor has an excusable reason for not performing, such as strike, fire, flood, events which are not the fault of and are beyond the control of contractor, the recipient, after setting up a new work schedule, may allow contractor to continue work, or treat the termination as a termination for convenience.

# Schedule F Affidavit for Driver Delivery

# Medium Class of Non-lift and Lift Transit Buses

Vehicles may be driven to the final delivery destination if the following conditions are met:

- 1. The drivers of the vehicles are correctly licensed and trained in proper vehicle operation.
- 2. The Contractor accepts all responsibility and liability for vehicles in transit.
- 3. The Contractor should sign the affidavit below and submit this with the bid.

The contractor accepts all responsibility and liability for vehicles in transit and guarantees the vehicles shall be transported in a safe, proper, and efficient manner.

I understand that the State and/or the Ordering Entity may cancel approval of this affidavit at any time during the contract if the contractor fails to meet the above obligations.

Signed

<u>4-17-23</u> Date

Commercial Sales Manager Title

Hoekstra Transportation Inc. Contractor

# **STATE OF MICHIGAN**

## Contract No 23000001329

# Medium Class of Non-Lift and Lift Transit Buses SCHEDULE G **EQUIPMENT CHECKLIST**

I	BODY SPECIFICATIONS				
		Item	Product Name and Model	Size, Material, and/or Type	
Α.		General design and construction	Class 1 &2: Champion Defender	Steel cage on body	
В.	1.	Body structure and exterior panels	Forest River Construction	Aluminized steel with fiberglass exterior nanels	
	2.	Rollover frame, steel cage type	Forest River Construction	16ga galvanized steel tube and hat sections	
	3.	Body section thickness	Forest River Construction	.0625	
	4.	Exterior panels	Forest River Construction	fiberglass	
	5.	Interior panels	Forest River Construction	FRP	
	6.	Interior length	Forest River Construction	Per floor plan	
	7.	Interior width	Forest River Construction	94"	
	8.	Interior height	Forest River Construction	75" f-550 raised floor	
	9.	Exterior length	Forest River Construction	Varies per floor plan, see floor plan	
	10.	Exterior width	Forest River Construction	96"	
	11.	Exterior height	Forest River Construction	122" freightliner body only	
	12.	Rubrails	Forest River Construction	Rubber insert	
	13.	Body overhang	Forest River Construction	Varies per floor plan, see floor plans	
С.	1.	Passenger door	A &M electric	Aluminum Door	
	2.	Opening Size	A &M electric	36"	
D.		Stepwell	Forest River Construction	Stainless steel	
E.		Interior – Color	Light gray	FRP	
F.		Flooring	Gerflor	Sirius	
G.		Emergency exits	Transpec	1970	
Н.		Gauges	OEM	STANDARD OEM GAUGES	
Ι.		Fare box	Diamond NV	Diamond NV Rectangular Farebox w/2 Vaults	
J.		Bumpers	OEM Front	Romeo Rim Rear	
К.		Mud Flaps and Splash Guards	Forest River Construction	Rubber composite F/R anti-sail	
L.		Towing	Forest River Construction	Rear tow hooks per spec	
М.	1.	Undercoating	Forest River Construction	ZPG-9902S	

	2.	Rustproofing	Forest River	ZPG-9902S
			Construction	
Ν.	1.	Interior mirrors	OEM	Per specification
	2.	Sun visors	OEM	Per specification
Ο.		Exterior Mirrors	Rosco	Accustyle are power remote and heated.
			Accustyle and	The Crossview crossover mirror is not
			Rosco	
			Crossview	
Ρ.	1.	Seats – Driver	FREEDMAN	Shield or OEM depending on chassis
	2.	Seats – Passenger	Freedman	Mid-High
			Featherweight	
	3.	Seats – Fold-up	Freedman	Mid-High
			Featherweight	
			Fold-a-way	
	4.	Seats – Flip-up	Freedman	Mid-High
			Featherweight	
			Flip-up	
Q.		Handrails, stanchions	Forest River	Stainless steel
			Construction	
R.		Interior lighting – LED	Optronics LED	As Specified
S.		Exterior lighting - LED	INNOTEC LED	As Specified
Т.	1.	Heating / ventilating – Front System	OEM	As Specified
	2.	Heating / ventilating – Rear System	SMART HEAER	As Specified
υ.		Windows	Lippert	36x36 T slide
			components	
V.		Paint	Axalta	36x36 T slide
<b>W</b> .		Insulation	R-control	BLOCK FOAM
Х.		Lift (platform type)	Braun	NCL10003454HB-2 1000# Lift 34"x54"
Υ.		Alternate Lift Manufacturer	Ricon	S-5510 Titanium 1000# Lift 34"x54"
Ζ.		Alternate Flooring Manufacturer	ALTRO	As Specified

II	WHEEL	WHEELCHAIR SECUREMENT AREA					
		Item	Product Name and Model	Size, Material, and/or Type			
Α.		Wheelchair securement	Q-Straint L- Track				
В.		Wheelchair restraints	Q-Straint	Q-8100- A1T-L			
С.		Restraint storage system	Q-Straint	Nylon			
	CHASS	SIS SPECIFICATIONS					
		Item	Class 1 Product Name/Model	Class 1 Size, Material, and/or Type	Class 2 Product Name/Mode I	Class 2 Size, Material, and/or Type	
Α.		Chassis	Ford F-550		Freightline r S2C		
В.		Tilt Wheel/Power Steering	Ford F-550	OEM	Freightline r	OEM	
C.		Wheelbase(s)	Ford F-550	205"	Freightline r	238"	
D.	1.	Engine - Diesel	Ford F-550	6.7L V8	Freightline r	B6.7L	
	2.	Auxiliary Coolant Heater	Ford F-550	Espar	Freightline r	Espar	

E.		Transmission	Ford F-550	Allison	Freightline r	Allison
F.		Alignment	Forest River	As specified	Forest River	As Specified
G.	1.	Gross Vehicle Weight Rating (GVWR)	Ford F-550	19500	Freightline	25,850
	2.	Front axle rating	Ford F-550	7000 lb.	Freightline r	9000 lbs
	3.	Rear axle rating	Ford F-550	14,000 lb.	Freightline r	17000 lbs
H.		Differential	Ford F-550	4.88	Freightline r	4.3
Ι.		Battery	Ford F-550	OEM	Freightline r	OEM
J.		Battery Cables and Grounds	Ford F-550	OEM	Freightline r	OEM
К.		Alternator	Ford F-550	OEM	Freightline r	OEM
L.		Engine Fast Idle	Forest River	Intermotive	Forest River	Intermoti ve
М.		Brakes	Ford F-550	OEM	Freightline r	OEM
N.		Fuel tank	Ford F-550	OEM	Freightline r	OEM
0.		Hazard flashers	Ford F-550	OEM	Freightline r	OEM
Ρ.		Shock absorbers	Ford F-550	OEM	Freightline r	OEM
Q.	1.	Suspension - Front	Ford F-550	OEM	Freightline r	OEM
	2.	Suspension - Rear	Ford F-550	Mor/Ryde	Freightline r	OEM
R.		Stabilizer	Ford F-550	OEM	Freightline r	OEM
S.		Wheels	Ford F-550	OEM	Freightline r	OEM
Т.		Tires	Ford F-550	OEM	Freightline r	OEM
U.		Spare Tire – Steer Axle	Ford F-550	OEM	Freightline r	OEM
۷.		Spare Tire – Drive Axle	Ford F-550	OEM	Freightline r	OEM
W.		Drive shaft	Ford F-550	OEM	Freightline r	OEM
Х.		Wipers / Horn	Ford F-550	OEM	Freightline r	OEM
Y.		Radiator and cooling system	Ford F-550	OEM	Freightline r	OEM
Z.		Fluids	Ford F-550	OEM	Freightline r	OEM
AA.		Engine Cover/Trim	Ford F-550	OEM	Freightline r	OEM

Hoekstra Transportation Inc.

BB.	Exhaust system	Ford F-550	OEM	Freightline	OEM
				r	

IV	OTHER	ITEMS		
		Item	Product Name and Model	Size, Material, and/or Type
Α.	1.	Safety – Fire extinguisher	Amerex 5lb ABC	As specified
	2.	Safety – Reflective triangles	James King	1005
	3.	Safety – Reverse alarm	ECCO	#520 97dba
	4.	Safety-Rear door alarm	Intermotive	Intermotive
	5.	Safety- Exterior height (clearance) decal	Smith Graphics	Smith Graphics
	6.	Safety-Lift interlock system	Intermotive	Intermotive
	7.	Safety-Warning/engine shutdown system	OEM	OEM
	8.	Safety-Headlight control	OEM	OEM
	9.	Safety-Strobe light	innotec	innotec
В.	1.	Lift circuit breaker	Braun	Braun
	2.	12-volt power point	OEM	OEM
	3.	Wire coding and harnesses	Precision Wire	Precision Wire
	4.	Electrical panel	intermotive	intermotive
	5.	Wiring support	Dave carter	Various size
	6.	Wiring grounds and capacity	Precision Wire	Precision Wire per
				amperage
	7.	Constant run solenoid	N/A Flextech	N/A Flextech
	8.	Circuit capacity & function	Precision Wire	Precision Wire
	9.	Wiring protection	Precision Wire	Fuse and circuit
				breakers per
				amperage
	10.	Wiring routing	As Specified	As Specified
	11.	Wiring connections	Molex interior and	Molex interior and
			weatherpack exterior	weatherpack
V	FOUID			exterior
V	EQUIPI	Air Conditioning Split unit	Tropo Air	TA77P00 Dual Super 10 /
А.		Air Conditioning, Split unit	Trans Air	TA77R90 Dual Super 10 /
				TA7173R120 Dual Super
				Super 10.13 / /
				TA7173R120 Dual Super
D		Poofton AC with host	Tropo Air	10,13 RT96 Dual Super 10
. Б.		Roonop AC with heat	Trans Air	w/EC4.0, w/heat / RT96
				Dual Super 10, w/EC4.0,
				w/heat / R165R165 Dual Super 15CID w/#16
				suction hose on both
				units**, w/heat /
				15CID, w/#16 suction hose
				on both units**, w/heat /
				15CID w/#16 suction hose
				on both units**, w/heat
С.	1.	Auxiliary Air Heater - Gas	Espar	Hydronic HS3
				B5E CS Heater /
				Airtronic D5
				Heater

	2.	Auxiliary Air Heater/Engine Block Heater (in lieu of	Espar	Hydronic MII D10
		aux. coolant heater).		Heater / Hydronic
				HS3 B5E CS
				Heater
П	1	Destination Sign – Poller/Curtain	Transian	As specified
D.	1.	Destination Sign - LED	Transign	AS SPECIFIED
F	۷.	Donation box (in lieu of standard farebox – deduct)	Diamond	Donation Box
F		Farebox Electrical Pren Only (less standard	Precision Wire	As Specified
		farebox-deduct)		
G.	1.	Limited Slip Differential (Class One)	FORD	OEM
	2.	Limited Slip Differential (Class Two)	OEM	OEM
Н.		Rear emergency exit window	Lippert components	As specified
Ι.	1.	Paint - One stripe	Axalta	Base / Clear coat
	2.	Paint - Roof second color	Axalta	Base / Clear coat
	3.	Paint - Different Full body	Axalta	Base / Clear
				coat
	4.	Reflective Vinyl Belt Stripe	Smith Graphics/ Avery	As specified
J.	1.	Lift – Type I (in lieu of standard lift)	Braun	NCL919-2 800#
	0			(34"x51")
	2.	Lift – Type II – Powered outer barrier (in lieu of	Braun	NL919-2 800#
	2	Lift Folding Distform (in liqu of standard lift)	N/A	(34 X51 )
	5.	Lint - Folding Flatform (in fied of standard lint)	IN/A	2023
Κ.	1.	Wheelchair Single Point Securement System (in	Q-Straint	Q10007 QRT 360
		lieu of one standard L-Track position)		Slide-n-Click
	2.	Additional Wheelchair Position – L Track System	Q-Straint	Omni L -Track
	3.	Additional Wheelchair Position – Single Point	Q-Straint	Slide N Click
		System		
	4.	Wheelchair Platform Securement System	Braun	Q'straint One – Buy
				America Compliant
			Forest Biyer	Ac specified
 	1	Padio - AM/EM stereo system w/ four speakers	OFM	As specified
141.	1.	Public Address System Only w/ two speakers	REI	As specified
	2.	Radio - AM/EM/PA stereo system w/ four speakers	REI	As specified
	٥. ۲	Radio – Additional speaker	ASA	5-1/4"
N.		Rear Air Ride Suspension (Class One)	Kelderman	Klm69353al
0.		Entrance Stepwell Heater	Warm Welcome	As specified
P.		Electric Driveline Brake (Retarder)	Telma	As specified
Q.	1.	Seats – Rear five place passenger	Freedman	Mid-High
			Featherweight	-
	2.	Seats - Forward Facing Standard Double Seat	Freedman	Mid-High
			Featherweight	
	3.	Seats – Forward Facing Double Fold-A-Way	Freedman Fold-a-way	Mid-High
	4.	Seats – Double Flip-Up	Freedman Flip-up	Mid-High
	5.	Seats- Double w/Single Integrated Child Seat (ICS)	Freedman ICS	Mid-High
	6.	Seats- Double w/Double Integrated Child Seat (ICS)	Freedman ICS	Mid-High
<u>к.</u>	4	Driver's Power Seat Base (Class One)	Adnik	6 way power
5.	1.	Alt Engine – Gas (Class One)		0./L Diesel
	<u>∠.</u>	Alt Engine – Propane (Class One)	Ford 7.3L with 08g prep	AT AS Specified
	J. ⇒.	All Engine – Di-luer Gas/Flopane (Class One)	Ford 7.3L with 90g prep	A1 As specified
т	4.	Ston Request System	RCTropics	As Specified
1.		Back-I In Sensor System	ROSCO	RSSK-1000
v. v.		Back-Un Camera System	RFI	
W.	1	Video Surveillance – Two Camera System	RFI	HD5-600-2-500GB
•••				HDD

	2.	Video Surveillance - Four Camera System	REI	HD5-600-4-500GB HDD		
	3.	Video Surveillance - Six Camera System	REI	HD5-1200W-6-500GB HDD		
	4.	Video Surveillance - DVR System Upgrade	REI	1 TB		
	5.	Video Surveillance – Extra Interior Cameras	REI	CAM, MINIDOME AHD 115D HFOV, 778		
	6.	Video Surveillance – Extra Exterior Cameras	REI	CAM, EXT AHD 85D LT RR/RT FT		
Х.		Video Surveillance Preparation Package	N/A	N/A		
Υ.		Entry Door Grab Handles	Marson	As specified		
Ζ.		Wheelchair Lift Barriers	Forest River	As specified		
AA.		24 Inch Seat Belt Extension	Seat belt solutions	As specified		
VI	EXCEP	TIONS - List all exceptions in the space below:				
3. 4. 5. 6. 7.	Itself. The front is the on Self-tapp the pass Aluminur method. Forest R forest R rather the	t-end panels in the <u>driver's area</u> will be made of w ly production method offered. bing/drilling screws are used under the cap trim an enger side mirror. This is the only production met m non-corrosive trim is used at the top of the entry iver does not offer any additional coating to the in inized coating previously applied prior to construc- iver, on ground planes, uses a 10GA wire to ground an braided.	ood and wrapped in gray ad in other applications on hod offered. v step as this is the only of side of box type steel tubin tion. nd the metal plane to the b	padded vinyl as this the vehicle such as ffered production ng. This tubing has pody of the vehicle		
VII	BIDDEI	R COMMENTS				
1	This hid i		this fixed 2 year contract	The hid price clas		
1.	includes bus. The request a	the Ford Motor Company Mobility Concession of a Mobility Rebate is contingent upon Ford continuitadjustment.	\$1000 mobility rebate on a ing the program. If discon	any Ford lift equipped tinued, we will		
2.	Note: Th	ne Braun Vista is no longer being produced per Br	aun (option J3 above).			
3.	We woul	d like to offer a price for a Driver's Side Running E	Board option for the Class	1 as it is not a listed		
	option or	in the specification. \$680				
4.	4. We have bid Alternative Fuel packages as requested. We have been advised that if Ford changes the chassis in such a manor that prevents the system from being installed as quoted then pricing revisions will be requested as the chassis changes would be out of our control.					
5.	Due to the wide range of distances and possibilities, the extended purchasing program that is open to states & entities other than those within the State of Michigan will require the negotiation of the states of the program that is open to state and the state of					
6.	<ul> <li>transportation/delivery charges. Delivery is included in pricing for any eligible Michigan agency.</li> <li>In an effort to provide choices for camera systems, we have bid the most popular system in Michigan. If an agency wishes to have another brand, we can provide them, but they will have to cover the difference in price if there is one.</li> </ul>					