Form No. DTMB-3522 (Rev. 10/2015)
AUTHORITY: Act 431 of 1984
COMPLETION: Required
PENALTY: Contract change will not be executed unless form is filed

STATE OF MICHIGAN

DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET

PROCUREMENT

525 W. ALLEGAN STREET
LANSING, MI 48933

P.O. BOX 30026
LANSING, MI 48909

NOTICE OF CONTRACT NO. **071B6600071**

between

THE STATE OF MICHIGAN

and

NAME & ADDRESS OF CONTRACTOR	PRIMARY CONTACT	EMAIL
Hoekstra Transportation, Inc.	Steve Bolin	sbolin@hoekstratruck.com
3741 Roger B Chaffee	PHONE	VENDOR TAX ID # (LAST FOUR DIGITS ONLY)
Grand Rapids, MI 49548	(616) 299-5170	*****0325

STATE CONTACTS	AGENCY	NAME	PHONE	EMAIL
PROGRAM MANAGER	MDOT	Jeff Turner	(517) 335-3282	Turnerj3@michigan.gov
CONTRACT ADMINISTRATOR	DTMB	Yvon Dufour	(517) 284-6996	dufoury@michigan.gov

CONTRACT SUMMARY

DESCRIPTION:

Medium Duty Lift and Non-Lift Buses

INITIAL TERM	EFFECTIVE DATE	INITIAL EXPIRATION DATE	AVAILABLE OPTIONS
2 years	May 11, 2016	May 10, 2018	One, 1 year option
PAYMENT TERMS	F.O.B.	SHIPPED TO	
45 Days		Destination	

ALTERNATE PAYMENT OPTIONS	EXTENDED PURCHASING
☐ P-card ☐ Direct Voucher (DV) ☐ Other	☐ Yes ☒ No

MINIMUM DELIVERY REQUIREMENTS

F.O.B. Destination

MISCELLANEOUS INFORMATION

ESTIMATED CONTRACT VALUE AT TIME OF EXECUTION	$17,081,478.00

For the Contractor:

Steve Bolin,
Contract Administrator
Hoekstra Transportation, Inc.

5.16.16
Date

For the State:

Rebecca Cook,
Division Director - Commodities
State of Michigan

5/30/16
Date

STATE OF MICHIGAN

STANDARD CONTRACT TERMS

This STANDARD CONTRACT ("**Contract**") is agreed to between the State of Michigan (the "**State**") and Hoekstra Transportation, Inc. ("**Contractor**"), a Corporation. This Contract is effective on May 11, 2016 ("**Effective Date**"), and unless terminated, expires on May 10, 2018.

This Contract may be renewed for up to 1 additional one year period. Renewal must be by written agreement of the parties and will automatically extend the Term of this Contract.

The parties agree as follows:

1. **Duties of Contractor.** Contractor must perform the services and provide the deliverables described in **Schedule A – Statement of Work** (the "**Contract Activities**"). 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, and meet operational standards, unless otherwise specified in Schedule A.

   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) not make any media releases without prior written authorization from the State; (i) 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; (j) comply with all State physical and IT security policies and standards which will be made available upon request; and (k) 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:
Yvon Dufour *525 W. Allegan,* *Constitution Hall, 1st Floor NE* *Lansing, MI 48933* *dufoury@michigan.gov* *(517) 284-6996*	Steve Bolin 3741 Roger B Chaffee Blvd. Grand Rapids, MI 49548 SBolin@HoekstraTruck.com (616) 389-1130 Office (616) 299-5170 Mobile

3. **Contract Administrator.** The Contract Administrator 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 *525 W. Allegan,* *Constitution Hall, 1st Floor NE* *Lansing, MI 48933* *dufoury@michigan.gov* *(517) 284-6996*	Steve Bolin 3741 Roger B Chaffee Blvd. Grand Rapids, MI 49548 SBolin@HoekstraTruck.com (616) 389-1130 Office (616) 299-5170 Mobile

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 *425 W Ottawa St* *Lansing, MI 48908* *turnerj3@michigan.gov* *517-335-3282*	Steve Bolin 3741 Roger B Chaffee Blvd. Grand Rapids, MI 49548 SBolin@HoekstraTruck.com (616) 389-1130 Office (616) 299-5170 Mobile

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 Schedule A) if, in the opinion of the State, it will ensure performance of the Contract.

6. **Insurance Requirements.** Contractor must maintain the insurances identified below and is responsible for all deductibles. All required insurance must: (a) protect the State from claims that may arise out of, are alleged to arise out of, or result from Contractor's or a subcontractor's performance; (b) be primary and non-contributing to any comparable liability insurance (including self-insurance) carried by the State; and (c) be provided by a company with an A.M. Best rating of "A" or better, and a financial size of VII or better.

Required Limits	Additional Requirements
Commercial General Liability Insurance	
Minimal Limits: $1,000,000 Each Occurrence Limit $1,000,000 Personal & Advertising Injury Limit $2,000,000 General Aggregate Limit $2,000,000 Products/Completed Operations Deductible Maximum: $50,000 Each Occurrence	Contractor must have their policy endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds using endorsement CG 20 10 11 85, or both CG 2010 07 04 and CG 2037 07 0. Coverage must not have exclusions or limitations related to sexual abuse and molestation liability.
Automobile Liability Insurance	
Minimal 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 Hired and Non-Owned Automobile coverage.
Workers' Compensation Insurance	

Minimal Limits: Coverage according to applicable laws governing work activities.	Waiver of subrogation, except where waiver is prohibited by law.
Employers Liability Insurance	
Minimal Limits: $500,000 Each Accident $500,000 Each Employee by Disease $500,000 Aggregate Disease.	
Hired and Non-Owned Motor Vehicle Insurance	
Minimal Limits: $1,000,000 Per Accident	Contractor must have their policy endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds.

If any of the required policies provide **claims-made** coverage, the Contractor must: (a) provide coverage with a retroactive date before the effective date of the contract or the beginning of Contract Activities; (b) maintain coverage and provide evidence of coverage for at least three (3) years after completion of the Contract Activities; and (c) if coverage is canceled or not renewed, and not replaced with another claims-made policy form with a retroactive date prior to the contract effective date, Contractor must purchase extended reporting coverage for a minimum of three (3) years after completion of work.

Contractor must: (a) provide insurance certificates to the Contract Administrator, containing the agreement or purchase order number, at Contract formation and within 20 calendar days of the expiration date of the applicable policies; (b) require that subcontractors maintain the required insurances contained in this Section; (c) notify the Contract Administrator within 5 business days if any insurance is cancelled; and (d) waive all rights against the State for damages covered by insurance. Failure to maintain the required insurance does not limit this waiver.

This Section is not intended to and is not 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).

7. **Administrative Fee and Reporting.** Contractor must pay an administrative fee of .25% on all payments made to Contractor under the Contract including transactions with the State (including its departments, divisions, agencies, offices, and commissions), and authorized Michigan transit agencies. Administrative fee payments must be made by check payable to the State of Michigan and mailed to:

   Department of Technology, Management and Budget
   Cashiering
   P.O. Box 30681
   Lansing, MI 48909

   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 DTMB-Procurement.

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

8. **Reserved.**

8. **Independent Contractor.** Contractor is an independent contractor and assumes all rights, obligations and liabilities set forth in this Contract. 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

10. **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.

11. **Staffing.** The State's Contract Administrator may require Contractor to remove or reassign personnel by providing a notice to Contractor.

12. **Background Checks.** Upon request, 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.

13. **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.

14. **Change of Control.** Contractor will notify, at least 90 calendar days before the effective date, the State 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.

15. **Ordering.** Contractor is not authorized to begin performance until receipt of authorization as identified in Schedule A.

16. **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 Schedule A. 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 23, 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.

17. **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 Schedule A. All containers and packaging becomes the State's exclusive property upon acceptance.

18. **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.

19. **Warranty Period**. The warranty period, if applicable, for Contract Activities is a fixed period commencing on the date specified in Schedule A. 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.

20. **Terms of 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 performed as specified in Schedule A. 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 prices are inclusive 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 http://www.michigan.gov/cpexpress 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.

21. **Liquidated Damages.** Liquidated damages, if applicable, will be assessed as described in Schedule A.

22. **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 purchase order. The State will not pay for Contract Activities, Contractor's lost profits, or any additional compensation during a stop work period.

23. **Termination for Cause.** The State may terminate this Contract for cause, in whole or in part, if Contractor, as determined by the State: (a) endangers the value, integrity, or security of any location, data, or personnel; (b) becomes insolvent, petitions for bankruptcy court proceedings, or has an involuntary bankruptcy proceeding filed against it by any creditor; (c) engages in any conduct that may

expose the State to liability; (d) breaches any of its material duties or obligations; or (e) fails to cure a breach within the time stated in a notice of breach. Any reference to specific breaches being material breaches within this Contract will not be construed to mean that other breaches are not material.

If the State terminates this Contract under this Section, the State will issue a termination notice specifying whether Contractor must: (a) cease performance immediately, or (b) 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 24, 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. 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.

24. Termination for Convenience. The State may immediately terminate this Contract in whole or in part without penalty and for any 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, or (b) continue to perform the Contract Activities in accordance with Section 25, 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.

25. 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) taking 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 Contractor by any entity, agent, vendor, or employee of the State; (d) 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 (e) 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.

26. General 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 if the State deems necessary. Contractor will not, without the State's 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. To the extent that any State employee, official, or law may be involved or challenged, the State may, at its own expense, control the defense of that portion of the claim.

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.

27. **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.

28. **Limitation of Liability.** The State is not liable for consequential, incidental, indirect, or special damages, regardless of the nature of the action.

29. **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 (e) a Proceeding involving any license that Contractor is required to possess in order to perform under this Contract.

30. **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 purposes.

31. **Reserved.**

32. **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. The provisions of this Section survive the termination of this Contract.

    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; and, (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: (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.

33. Reserved.

34. Reserved.

35. Reserved.

36. Records Maintenance, Inspection, Examination, and Audit. 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 financial and accounting 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 any 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.

37. **Warranties and Representations.** 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; and (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. A breach of this Section is considered a material breach of this Contract, which entitles the State to terminate this Contract under Section 23, Termination for Cause.

38. **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.

39. **Compliance with Laws.** Contractor must comply with all federal, state and local laws, rules and regulations.

40. **Reserved.**

41. **Reserved.**

42. **Nondiscrimination.** Under the Elliott-Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, *et seq*., and the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, *et seq*., 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, height, weight, marital status, or mental or physical disability. Breach of this covenant is a material breach of this Contract.

43. **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.

44. **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 Michigan Court of Claims. Contractor consents to venue in Ingham County, and waives any objections, such as lack of personal jurisdiction or *forum non conveniens*. Contractor must appoint agents in Michigan to receive service of process.

45. **Non-Exclusivity.** Nothing contained in this Contract is intended nor will be construed as creating any requirements contract with Contractor. This Contract does not restrict the State or its agencies from acquiring similar, equal, or like Contract Activities from other sources.

46. **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.

47. **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.

48. **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 prior written State approval, and then only in accordance with the explicit written instructions of the State.

49. **Website Incorporation.** The State is not bound by any content on Contractor's website unless expressly incorporated directly into this Contract.

50. **Order of Precedence.** In the event of a conflict between the terms and conditions of the Contract, the Schedules, a purchase order, or an amendment, the order of precedence is: **(a)** *Federal Contract Clauses - Schedule C*; **(b)** The following Mandatory sections of *Standard Contract Terms: First paragraph – Contract Terms, section 20 - Terms of Payment, section 6 - Insurance Requirements, section 26 – General Indemnification, section 23 – Termination for Cause, section 24 – Termination for Convenience, section 44 - Governing Law, section 28 - Limitation of Liability;* **(c)** Schedules A – Statement of Work, Schedule B – Specification for Medium Class Non-Lift and Lift Transit Buses; **(d)** All sections from *Standard Contract Terms not listed in subsection (b);* **(e)** Any other attachment or Schedule to the contract documents; **(f)** Any Purchase order, Direct Voucher, or Procurement Card Order issued under the Contract; and **(g)** Contractor Responses contained in any of the RFP documents.

51. **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.

52. **Waiver.** Failure to enforce any provision of this Contract will not constitute a waiver.

53. **Survival.** The provisions of this Contract that impose continuing obligations, including warranties and representations, termination, transition, insurance coverage, indemnification, and confidentiality, will survive the expiration or termination of this Contract.

54. **Entire Contract and Modification.** This Contract is the entire agreement and replaces all previous agreements between the parties for the Contract Activities. This Contract may not be amended except by signed agreement between the parties (a "**Contract Change Notice**").

STATE OF MICHIGAN

Contract No. 071B6600071

Medium Class of Non-Lift and Lift Transit Buses

SCHEDULE "A"
STATEMENT OF WORK
CONTRACT ACTIVITIES

This contract is for two (2) classes of medium duty non-lift and lift transit buses.

1. Specifications

1.1 The Contractor must provide the following:

A. The Contractor must provide medium duty non-lift and lift transit buses per **Schedule B, Medium Duty Bus Specifications**.

B. The Contractor supplying these buses shall quick title and deliver the bus and the title to the location specified by the Program Manager or their Designee.

C. Chassis serial number, body number, axle ratio, 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 bus (location to be approved by the Program Manager).

D. The Contractor shall be a licensed motor vehicle dealer in their state, county, or municipality.

E. The Contractor must be capable of handling final inspection and corrections required by the state prior to acceptance of the buses after a contract is awarded.

F. Repair facilities shall be established throughout the state to provide chassis and body service support to transit agencies to minimize agency travel to reach the nearest repair facility.

G. The Contractor must be capable of providing parts and service for a period of ten years after the buses have been placed in service throughout Michigan.

The Contractor shall supply replacement parts within 5 working days of a request by the Ordering Entity unless the Contractor notifies the Ordering Entity that the part is not available for shipment and provides the shipping date when the part will be available.

H. Regardless of options and seating plan ordered, the Contractor shall be responsible for certifying that all buses delivered:

1) Shall not exceed 100% of front spring and 100% of rear spring capacity rating at ground without exceeding GVWR of chassis as bid (determined by engineering calculated loaded bus axle weights).

2) Bus length when measured bumper to bumper excluding the energy absorbing portion of the bumper shall not exceed the following:

Class	Bus Length	Shall not exceed the following lengths
Medium 1 & 2	26'	27' 11"
Medium 1 & 2	29'	30' 11"
Medium 1 & 2	32'	32' 11"

1.2 Warranties

Warranty requirements for components and/or systems shall be in accordance with **Schedule B, Specifications.**

OEM guidelines shall be followed for filing, reporting and resolving a service/warranty issue.

Customer Service:

Contractor service department: 1-800-444-4104

Manufacturers full time 24-hour service line: 1-877-MV1-FORU *1-877-681-3678

The Contractor's primary concern shall be to get customers vehicle back in operation as quickly as possible. The Contractor is a parts stocking dealer with two locations in Michigan. The Contractor shall make every effort to remedy this issue on their time, and then to resolve the warranty claim with their OEM.

In order to expedite warranty repairs, the Contractor may allow a subcontracted warranty repair filed through the contractor's system.

At delivery, the Contractor shall provide a copy of the vehicle(s) warranties. In addition, the process for service and warranty shall be explained to the Ordering Entity at delivery.

1.3 Recall Requirements and Procedures

The Contractor complies with all state and federal requirements. If a recall is issued, the Ordering Entity, the Contract Administrator, and the Program Manager or Designee shall be notified by the OEM and/or Upfitter via email within 24 hours, and provided a pathway to resolution.

If the vehicle requires a visit to a repair facility, the Contractor shall facilitate the scheduling, service, parts, and paperwork in order to expedite the process.

1.4 Incentives

The Contractor shall offer incentives or programs the OEM offers. The Contractor shall consider trade-in product opportunities.

2. Service Levels

2.1 Time Frames/Delivery

All Contract Activities must be delivered within **210** calendar days from receipt of order. The receipt of order date is pursuant to Section 5. Delivery will be made to the Ordering Entity.

2.2 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 or the Ordering Entity, 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.

2.3 Reporting

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

By the second Friday of every December, the Contractor must submit a report of recycled content in commodities sold in that calendar year to **Yvon Dufour or, DTMB Procurement Designee**.

2.4 Documents

The Contractor must prepare and submit all documents listed in **Schedule B, Medium Duty Bus Specifications.**

2.5 Meetings

Meetings requested by the State include, but are not limited to, the pre-pilot model review, and the pilot and production meetings as required per Section 7 - Acceptance, Inspection, and Testing.

The State may request other meetings, as it deems appropriate.

3. Staffing

3.1 Contractor Representative

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

Steve Bolin – Commercial Products Manager
Hoekstra Transportation
3741 Roger B Chaffee Blvd.
Grand Rapids, MI 49548
Mobile 616.299.5170
Office 616.389.1130

Toll Free 800-444-4104
Fax 616.245.7726
Email SBolin@HoekstraTruck.com

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

3.2 Customer Service, Technical Support, Repairs and Maintenance Toll-Free Number

The Contractor must specify its toll-free number for the State to make contact with the Contractor Representative. The Contractor Representative should be available for calls during the hours of 8 am to 5 pm EST.

Toll Free 800-444-4104
Mobile 616.299.5170
Office 616.389.1130
Fax 616.245.7726
Email SBolin@HoekstraTruck.com

3.3 Disclosure of Subcontractors

The Contractor may subcontract with the following Alternative Fuel System installer for the installation of Propane and CNG if necessary:

Green Alternative Systems
28293 Clay St, Elkhart, IN 46517
(877) 686-9448

4. Pricing

4.1 Price Term

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

Multi-Award: This Contract is part of a Split-award. The State will reimburse the Ordering Entity up to the amount of the lowest price, as designated by MDOT.

4.2 Price Changes

A.
- **1)** 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 after a Change Notice is issued.
- **2)** Adjustments for changes in federal regulations 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 changes in the chassis manufacturers OEM standard equipment affect the cost of the buses required 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. If changes in federal regulations affect the cost of the buses required 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 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.

1) 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.

2) Following the presentation of supporting information, both parties will have 30 days to review the supporting information and prepare any written response.

3) 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.

4) 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.

5) 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.

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 purchase order.

5.2 Order Verification

The Contractor shall have internal controls to verify abnormal orders and to ensure that only authorized individuals place orders. Orders shall be verified referencing **Schedule F – Authorized Michigan Transit Agencies.**

5.3 Quantity

A. The State is not obligated to purchase in any specific quantity. Minimum quantities shall be one (1) bus (pilot model) up to a maximum of 200 buses.

B. **Multi-Award:** The maximum quantities shall be 200 buses per contract. Once one (1) of these split award contracts reaches the bus order maximum of 200, both awarded contracts shall be terminated.

6. Delivery

6.1 Driver Delivery

A. The Contractor will be permitted to drive vehicle(s) to final destinations in compliance with the "**Schedule D - Affidavit for Driver Delivery**".

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

2) The Contractor is in agreement, 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.

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

6.2 General Delivery

The Ordering Entities have the right to refuse bus delivery if the following conditions are not met:

A. For the delivery of all units that may be released against the Contract the following must apply:

1) The Contractor should produce the pilot model as the first bus ordered by the State for its transit agencies.

2) The bus should be:
- **a.** Lift / non-lift equipped
- **b.** Air conditioned
- **c.** The largest size on request by the transit agencies.

3) All necessary testing and equipment placement should be performed on the pilot models before final inspection/acceptance by the State.

4) The pilot model should 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

7. Acceptance, Inspection, and Testing

7.1 Acceptance

A. The State will use the following criteria to determine acceptance of the Contract Activities:

1) The Contractor shall complete all corrections required by the State prior to delivery and final acceptance.
2) Delivery of Production Chassis to the Body Manufacturer should be within **120** days after the Pre-Pilot Model Meeting.
3) Exact Production for Delivery Due Dates, will be determined by the delivery schedule, plus (+) seven (7) calendar days from issue dated indicated on the Purchase Order. Delivery should be at the rate of one (1) unit per week minimum until completion of the quantity ordered.

7.2 Inspection

A. Pilot, Production Model and Plant Inspections:

1) Pilot Model Review Meeting at the Manufacturer Facility, or at a mutually agreed upon location, shall be conducted within thirty (30) calendar days from the date of the Purchase Order.

2) Pilot Model Approvals, shall be completed by the State and/or Ordering Entity within thirty (30) calendar days after delivery of the pilot model to the ordering agency.

3) Periodic Production/Plant Inspections, by the Program Manager, or their Designee include two (2) per contract period.

4) Final inspection shall be made at a site(s) as agreed upon by the Contractor and the Ordering Entities. The Contractor should be capable of handling final inspection and corrections prior to acceptance of the buses.

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 Program Manager, or their Designee, 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

7.3 Testing

A. Testing - Prior to delivery, the Contractor must certify that:

1) All quality assurance activities have been completed.
2) All applicable testing has been completed.
3) All material deficiencies discovered during the quality assurance activities and testing have been corrected.
4) 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:

1) Perform any applicable testing.
2) Correct all material deficiencies discovered during the quality assurance activities and testing.
3) Inform the State that the unit is in a suitable state of readiness for the State's review and approval.

To the extent that testing occurs at the Ordering Entity's location personnel are entitled to observe or otherwise participate in testing.

7.4 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.

8. Invoice and Payment

8.1 Invoice Requirements

All invoices submited to the State must include: **(a)** date; **(b)** purchase 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.

8.2 Payment

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

8.3 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.

9. Additional Requirements

9.1 Key Personnel

The Contractor must appoint one 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 inquires within 24 hours.

Steve Bolin – Commercial Products Manager
Hoekstra Transportation
3741 Roger B Chaffee Blvd.
Grand Rapids, MI 49548

Mobile 616.299.5170
Office 616.389.1130
Toll Free 800-444-4104 x 1130
Toll Free 800-444-4104
Fax 616.245.7726
Email SBolin@HoekstraTruck.com

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

Steve Bolin – Contract Manager
Hoekstra Transportation, Inc.
3741 Roger B Chaffee Blvd.
Grand Rapids, MI 49548
(616) 389-1130 Office
(616) 299-5170 Mobile
(616) 245-7726 Fax
SBolin@HoekstraTruck.com

Matt Reiffer – 16 years – Service Manager
Hoekstra Transportation, Inc.
3741 Roger B Chaffee Blvd.
Grand Rapids, MI 49548
1-800-444-4104 x 1125

9.2 Non-Key Personnel

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

Mark Hoekstra – 22 years – President of Hoekstra Companies
3741 Roger B Chaffee Blvd.
Grand Rapids, MI 49548
1-800-444-4104 x 1102

Tom Hoekstra – 24 years – Vice President
Hoekstra Transportation, Inc.
3741 Roger B Chaffee Blvd.
Grand Rapids, MI 49548
1-800-444-4104 x 1123

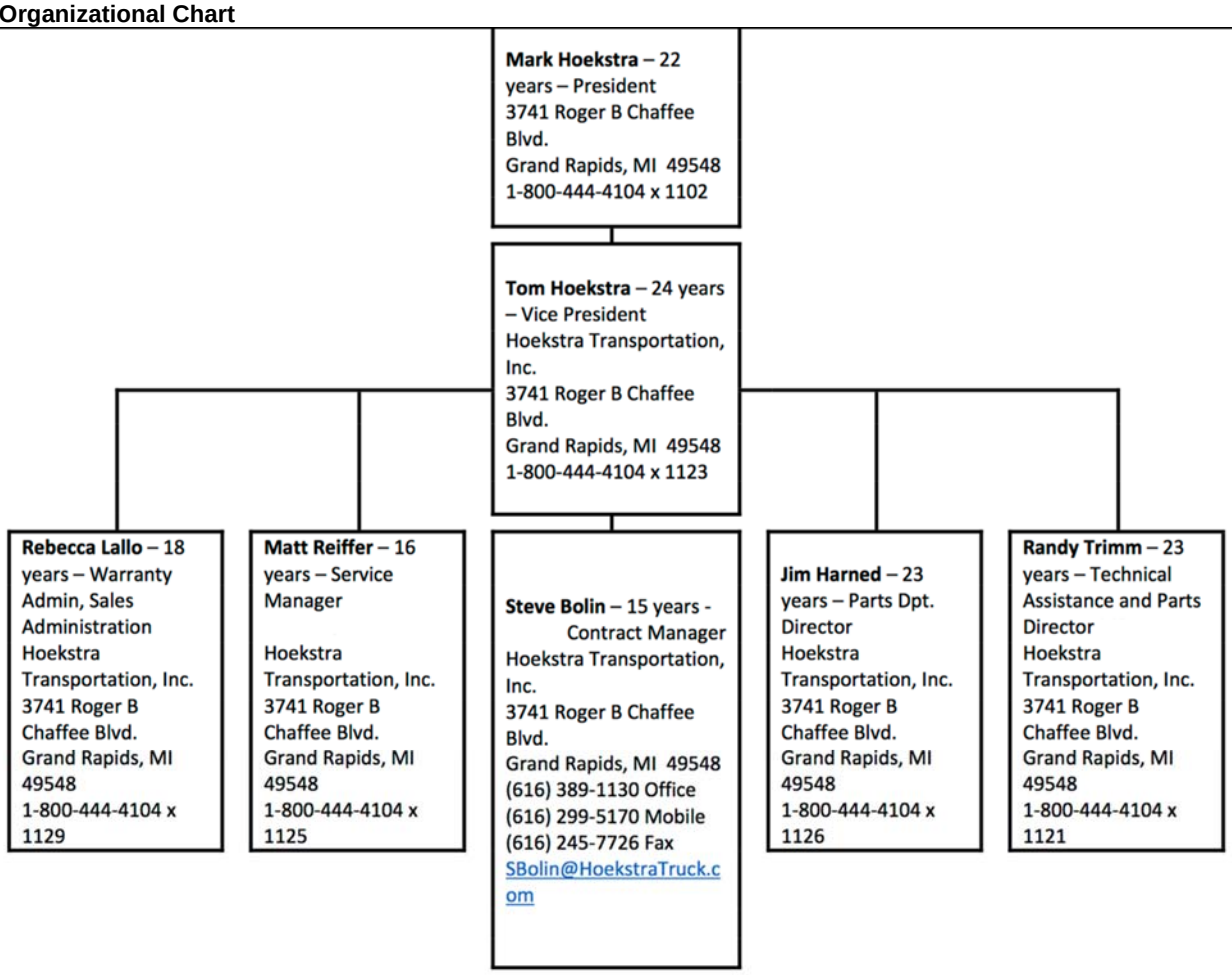
Rebecca Lallo – 18 years – Warranty Admin, Sales Administration
Hoekstra Transportation, Inc.
3741 Roger B Chaffee Blvd.
Grand Rapids, MI 49548
1-800-444-4104 x 1129

Jim Harned – 23 years – Parts Dpt. Director
Hoekstra Transportation, Inc.
3741 Roger B Chaffee Blvd.
Grand Rapids, MI 49548
1-800-444-4104 x 1126

Randy Trimm – 23 years – Technical Assistance and Parts Director

Hoekstra Transportation, Inc.
3741 Roger B Chaffee Blvd.
Grand Rapids, MI 49548
1-800-444-4104 x 1121

9.3 Organizational Chart



STATE OF MICHIGAN

Contract No. 071B6600071

Schedule "B"
State of Michigan
Office of Passenger Transportation
Specifications for
Medium Class, 7-Years/200,000 Miles (minimum)
of Non-lift and Lift Transit Buses with Alternate Seating

I. PURPOSE OF SPECIFICATIONS

A. These specifications are setting forth the minimum requirements for a two-axle, transit class commercial non-lift bus or a Paratransit type commercial bus equipped with a commercial wheelchair lift. The body shall be mounted on a commercial or recreational vehicle (RV) chassis. Buses in these specifications shall be defined by the following classes:

1) Medium Class One: Minimum 19,500 GVWR

2) Medium Class Two: Minimum 22,000 GVWR

Buses shall not exceed 100% of front spring and 100% of rear spring capacity rating at ground without exceeding GVWR of chassis (determined by engineering calculated loaded 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).

II. BODY SPECIFICATIONS

A. GENERAL DESIGN AND CONSTRUCTION

1) SAFETY: The chassis and body shall be designed using only prudent, proven engineering principles with all work performed only by professional established firms. The bus purchased shall comply with all State regulations and requirements applicable to the design and manufacture of motor buses for the State of Michigan.

2) DRIVER SIZE and COMFORT: Design criteria of bus purchased shall be for all females from the 5th percentile, to males of the 95th percentile, to be equally as comfortable in using all controls required to safely drive and maneuver the bus. All driver controls shall comply with FMVSS 101, with hand and foot controls required to operate the bus safely, including the placement of exterior adjustable mirrors, positioned to meet this safety requirement.

3) QUALITY of WORKMANSHIP: All labor employed in both the manufacturing and assembly processes of the bus purchased shall be to the highest industry standards. The entire bus shall be within all established engineering tolerances set by all parties involved in the design and production of the bus. All added components shall be installed and positioned according to the component manufacturer's installation procedures which shall be available upon request.

4) WELDING: All welding procedures used throughout the construction of the bus, including materials, qualifications and training of personnel, shall be in accordance with the standards of the American Society for Testing and Materials (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 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, 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 dipped in a rust-resistant coating 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. Fasteners used by the respective component manufacturers in their assemblies are acceptable as part of the assembly.

B. BODY STRUCTURE AND EXTERIOR PANELS

1) Metal Rollover Frame, Cage-type Construction

a. The bus shall have a heavy-duty, unit-body structure type. 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. 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 Contractor shall provide certification, that the bus meets the FMVSS 220 rollover protection test.

b. The bus shall be designed to withstand road shocks, stop, and start operations, seasonal weather and road extremes, and other conditions found in Michigan transit bus 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 with connector bolts that permit body flexing independent of chassis flexing. Roof, side, front, and back panels shall be secured to the body 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 bolted to the floor with grade 8 bolts to provide adequate stability in the event of a non-static rollover event. The body floor sub-frame assembly, including lower skirt reinforcements, shall be, at a minimum, gauge number 14 (.075" thickness) galvanized 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 spray test per ASTM procedure B-117, with no structural detrimental effects to normally visible surfaces. Certification of compliance with this requirement shall be published by an independent company. Wheelwells 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. (ASTM B-117 testing performed by the coating manufacturer in compliance with test standards is acceptable)
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 gel-coat, reinforcement and resins). 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 framing (tube) or imbedded reinforcements, 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 304 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. (A one-piece seamless roof made of TekModo composite material laminated to an Azdel composite material is approved as long as it meets or exceeds specifications)
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.
e.	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. All exterior panels shall be buck riveted and/or bonded to the body frame structure.
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.
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. No sheet metal screws shall be permitted, 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 reinforced with steel backing, aluminum backing, or stainless steel backing.

h.	Window openings cut into body panels shall have a maximum frame clearance of $^{1}/_{8}$" on each side to minimize the need for caulking (see Section II. V., Windows). 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.
i.	The Contractor shall submit roof, sidewall, and flooring drawings showing structure and structural specifications indicating metal size and type used. Include side sheathing and inside panels**.**
2)	**Fiberglass Reinforced Plastic (FRP) Composite Unitized-type Body**
a.	The bus body shall have a heavy-duty unitized structure and shall be of durable fiberglass reinforced plastic (FRP) composite construction. The body panels shall consist of an exterior high gloss gelcoat (.020" thickness, minimum) on a resin-hardened FRP (3/16"thickness, minimum) attached to a center layer of resin hardened Nida-Core® or equal honeycomb (¾" thickness, minimum) with an inner FRP panel (3/16" thickness, minimum); or may be ¾"polyurethane foam insulation gelcoated to ¼" FRP exterior with ¼" FRP interior, reinforced with steel perimeter and transverse supports, completely fiberglassed to adjoining body parts. It shall use proper adhesive materials to adequately bond and mechanically fasten all joints and points of stress with sufficient strength to comply with the FMVSS 220 rollover protection test. Each Contractor shall provide certification, that the bus meets the FMVSS 220 rollover protection test.
b.	The bus shall be designed to withstand road shocks, stop and start operations, seasonal weather and road extremes, and other conditions found in Michigan transit bus 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 with connector bolts that permit body-flexing independent of chassis flexing. Roof, side, front, and back panels shall be secured to the floor and lower body frame members; all of which shall result in a permanent, fully-integrated structural unit adequately reinforced at all points where stress concentration may occur. The body floor sub-frame assembly, including lower skirt reinforcements, shall be, at a minimum, gauge number 14 (.075" thickness) galvanized 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 1,000 hour salt spray test per ASTM procedure B-117, with no structural detrimental effects to normally visible**.** Certification of compliance with this requirement shall be published by an independent company. Wheel wells shall have minimum yield strength of gauge number 14 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. Passage holes provided for wiring and hoses shall be thoroughly sealed to prevent dust and moisture intrusion. The entire lower body frame shall be coated with corrosion resistant primer/paint (steel) or properly treated to resist corrosion (other materials). All treated components shall be properly cleaned to remove greases, oils, and residues before application of the corrosion resistant material.
c.	All exterior side and roof panels when completed shall be at a minimum $1^{-1}/_{8}$" thick. Bond lines at the sidewalls, rear endcap, roof, and front cap shall be interlocked by adhesives, resin saturated fiberglass matting, and mechanical fasteners, forming a unibody design without exposed fasteners or protruding moldings. Imbedded reinforcements shall be installed at all door openings in order to support door mounting hardware and door operating mechanisms. All door openings shall have full structural framing to maintain integrity of the body structure. All exposed doorframe structure shall be made of 304 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.
d.	Interior panels may be an integral part of the FRP composite panel or may be made of scuff-resistant laminate/FRP finished material. Where threaded fasteners are in the interior panel only, an imbedded reinforcing nut or a reinforcing panel shall be integrated into the FRP composite for added strength and fastener retention.
e.	Exterior panels may be an integral part of the FRP composite panel. Exterior panels shall be sufficiently stiff to prevent vibration, drumming, or flexing while the bus is in service. Lower skirt panels shall be sufficiently fastened and braced to prevent damage from ice and snow build-up. Lower skirt panels may be one piece in length at manufacture but shall be repairable in sections. Where panels are lapped, the upper and/or forward panels shall overlap the lower and/or rearward panels to prevent intrusion of water under the panels. Sealing and fastening of joints, including front and rear cap-to-body joints, shall prevent entrance of moisture and dirt. All exterior panels shall be bonded to the lower body frame. In no case shall the sealing of the panels be dependent on caulking alone.
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 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.
g.	No sheet metal screws shall be permitted, except for rubrails and rubber fender 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 and meet the 480 hour ASTM B117 Salt Spray test and the 480 hour ASTM D2247 Humidity Resistance test. Where self-tapping fasteners are used in body panels, the body panels shall have an imbedded reinforcing nut or a reinforcing panel shall be integrated into the FRP composite for added strength and fastener retention.
h.	Window openings cut into body panels shall have a maximum frame clearance of $^{1}/_{8}$" on each side, to minimize the need for caulking **(see section B. Body Structure and Exterior Panels, subsection 24. Windows).** All openings cut into body exterior panels must have the exposed edges of the cutout properly coated to prevent moisture intrusion 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.
i.	The Contractor shall submit roof, sidewall, and flooring drawings showing structure and structural specifications indicating metal size and type used. Include side sheathing and inside panels.
3)	**Passenger Door**
a.	The manufacturer shall provide a heavy duty electrically operated passenger entrance door. The passenger entrance door shall be an anodized aluminum frame, split-type double leaf swing door. This door shall have a flexible 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, watertight, and dust-proof seal shall be formed between the 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 per second to provide a total door closing or opening in 2 to 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 made of 304 stainless steel (including the fasteners), 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 entrance header, the header shall be padded to prevent injury to those exiting the bus. Suggest Source: A&M Systems Inc .
b.	The doorframe strength and electric door operator strength shall be designed to match the entrance door size. Door fasteners shall be anchored through a metal frame, NOT through a wood frame. The operator for the entrance door 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 module shall be located in a weatherproof enclosure to 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 ¼" threaded knobs (knobs shall match access cover). The access door or cover shall be as large as will fit 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 other 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 manufacturer. Suggested source: A&M Systems Inc., Excell, Vapor.
c.	The passenger door control switch shall be located in the driver's compartment within easy reach of the driver and be clearly marked for "open" and "close" (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.
e.	The Contractor shall submit detailed engineering drawing(s) for the design of the entrance door and door-opening device.
4)	**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" in height, each additional vertical step shall not exceed 9½" 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, Section II., F., Item 3). Any interior stainless steel except for exposed door frames shall be brushed, not painted.
b.	The Contractor shall submit detailed engineering drawing(s) for the design of the entrance step configuration**.**
5)	**Interior**
a.	The interior of the bus shall provide a pleasant, 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.
b.	All interior panels shall be made of laminate/FRP finished material scuff-resistant materials.
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. Finished surfaces shall not be damaged by controlled applications of graffiti-removing chemicals.
d.	The interior height of the passenger compartment at center 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 compartment having sharp edges, corners, or angles that could cause injury, shall be padded with a heavy-duty, vinyl-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 be provided in the interior area either above the windshield (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.
6)	**Flooring**
a.	The floor deck may be integral with the basic structure or mounted on the structure securely to prevent chafing or horizontal movement. All floor fasteners shall be corrosion resistant steel and shall remain secured and corrosion resistant for the service life of the bus. The floor deck shall be ¾" C/D plywood of marine grade material or ¾” fiberglass encased composite material, minimum, with sealed edges to prevent moisture intrusion. The floor deck upper surface shall have all cracks and voids filled and the whole surface rough sanded before installing the flooring material. A layer of sealer shall be installed between floor deck edges that butt against structural members and other deck sections to prevent dust and moisture intrusion. Passage holes provided for wiring and hoses in the floor deck shall be thoroughly sealed to prevent dust and moisture intrusion. Passenger seating floor rail/track shall not be installed in the wheelchair lift or wheelchair securement areas. The floor deck, including the sealer, attachments, and coverings, shall be waterproof, non-hygroscopic, resistant to wet and dry rot, and resistant to mold growth. The floor deck shall not be sandwiched between the wall structural members and the floor structural members.
b.	The entire passenger area including the wheelchair securement area, entrance steps and stepwell area, shall be overlaid with smooth, slip resistant flooring material. The resilient sheet flooring system (2.2 mm thickness minimum) shall be a high quality vinyl with aluminum oxide and color quartz grains throughout the thickness, silicon carbide grains in the surface layer and a non-woven polyester/cellulose backing with glass fiber reinforcement. The flooring shall extend up the sidewall and rearwall to the seat rail line and shall be coved at the floor/wall joint to form a smooth water tight transition. A cove molding radius 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™ Chroma.
c.	Step treads shall be one-piece resilient sheet flooring 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 the step. Step tread to stepwell joints shall be sealed to prevent intrusion of moisture and debris.
d.	An aisle width standee line of bright yellow contrasting color shall be in the aisle just behind stepwell (must meet ADA contrast requirement). Suggested Sources: Altro Safety Step System
e.	Color of all flooring and step tread shall be equal to Altro Transflor genome (grey) or bison (tan) as requested by the Ordering Entityies.
f.	To provide easy access for service, the floor shall have a vapor and fumeproof bright stainless steel diamond plate access panel to reservoir fill/check areas and fuel tank sending unit.
g.	Standee decals shall be furnished and mounted at the center of the bus above the windshield.
h.	Wheelwells shall be thoroughly sealed to prevent intrusion of moisture and dirt. Metal wheelwells inside the passenger compartment shall be covered with flooring material or molded fiberglass (FRP or ABS). (Powder coated galvanized wheels that meet or exceed the specifications are approved)
7)	**Emergency Exits**
a.	Each bus shall be equipped with a rear exit door with an 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). All exposed exit door frame/jamb structure shall be made of 304 stainless steel, a grade which does not discolor with aging. The rear door exit and side window exits shall meet federal requirements of FMVSS 217. The manufacturer shall provide a method to lock the rear exit door. The rear exit door shall have an audible alarm at the driver's area activated when the exit door latch handle starts to open and when the exit door is locked with the ignition on. A bus with a rear exit door shall have one small window on each side of the exit door in the rear endcap.
b.	The rear exit door shall have two windows, an upper window and a lower window, as a part of the door. The door glass shall be see-through, AS-2 tint (70% luminous transmittance) safety glass. The upper door window height shall match top of rear bus windows, one on each side of rear door. Door windows shall match design of bus rear windows. Heavy-duty door latch mechanism with handle guard shall provide a quick release for opening from inside and outside the bus but be designed to offer protection against accidental release. The door latch shall cause the door to compress the perimeter door seal to provide an airtight, dustproof and watertight seal around the door under all operating conditions and speeds. Door panels shall match exterior and interior body panels (see section II. A., B., and C.). All doors shall be fitted with screwed or bolted-on heavy-duty stainless steel piano 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 passage way of 16" minimum width shall be provided to the rear exit door. No seats or other objects shall be placed in bus, which restricts passageway to rear exit door.

d.	One-closing static exhaust vent, a combination roof vent-emergency exit (23" by 23" minimum), shall be installed at the mid-point on the longitudinal center line of the roof of the passenger section of the bus. The roof vent-escape hatch shall provide fresh air flow inside the bus when opened and when the bus is in a forward motion. The escape hatch shall have an inside and an outside release handle. There is no warning buzzer requirement for the escape hatch. Suggested source: DMA 1122, Specialty Manufacturing Co., Transpec Inc.
e.	Instructions for proper use of all emergency exits shall be marked in close proximity to the release mechanisms. 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. Instructions may be labels, of 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 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. Latches shall be located on the sides, NOT the bottom.
g.	Each exit used for passenger egress shall be identified with 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
8) Gauges	
a.	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).
b.	Voltmeter and its wiring shall be compatible with generating capacities.
c.	Engine oil pressure gauge.
d.	Engine coolant temperature gauge.
e.	Fuel gauge.
f.	Air system pressure gauge with low air warning alarm and light for buses with an air system.
9) 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.
b.	The farebox shall be lockable 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
10) Bumpers	
	The front bumper shall be an OEM bumper. The rear 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. Lifting pads shall be provided as part of the bus so that the bus may be lifted (at curb weight) at the front and/or the rear without any deformation or damage to the bus or bumpers and mounting hardware. Rear bumper Suggested source: Romeo R.I.M. Inc. H.E.L.P. bumper, SMI.
11) 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 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 support bracket shall be fastened securely to the body substructure or chassis frame. The flaps shall extend to within 6" 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.
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.
c.	Rubber fender splash guards, secured with stainless fasteners shall be installed on the rear wheel well opening.
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.
12) Towing	
	Tow hooks shall be provided with two in the rear and two in the front of the bus, which shall be of sufficient strength to tow 1½ times the GVWR of the bus. Tow hooks shall be equipped with a spring safety clips (rear only), 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 Contractor shall provide the towing and lifting procedure at delivery.

13) 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: Tectyl 121-B.

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 including vent canisters and drain pipes. Rustproofing shall be warranted for the same period covered by the body/structure warranty. Suggested source: Waxoyl, Ziebart Type-A.

14) Interior Mirrors/Sun Visors

a. Interior mirror (with adjustable mounting bracket) shall be a 6" by 8" 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).

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.

15) Exterior Mirrors

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 or die-cast, anodized aluminum. The mirror shall contain at least 70 square inches of flat glass viewing area. Suggested source: B&R Manufacturing, OEM, Mirror Lite Co, Inc., ROSCO, Velvac.

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 bus. Suggested sources: Mirror Lite Co Inc. HD, Rosco Eye-Max LP.

c. All exterior mirrors shall be constructed with high impact plastic or stainless steel housings. The rear view 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.

16) Driver’s Seats

a. **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, 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. An option for an electric 6-way power adjustable seat shall be available. Suggested sources: OEM, USSC G2E (G2ELP with static pedestal base and slide kit is approved)

b. **Medium Class Two:** 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 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 solid bar stock scissors style 12" minimum exterior 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 slide. The driver's seat with arm rests shall have 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 4) weight range capacity up to 300 pounds. While seated, 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 seat. 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 engine air compressor or 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 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 15º when the seat is positioned furthest from the steering wheel. FMVSS 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: OEM, USSC Model 9100ALX3, Recaro Ergo Metro with headrest and armrests.

c. The driver's seat cushion shall be molded high resilient (HR) polyurethane foam padding with indentation load deflection (ILD) 35 pounds minimum, and the back 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 legs. Compressions to 10 percent maximum and tensile strength, 15 lbs. per square inch minimum. Seat and back cushion foam shall meet 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 Fabric (with flame retardant qualities) meeting the requirements listed below in All Seats **(see section B. Body Structure and Exterior Panels, subsection 19. Seat Material, item b. Cloth-type Woven Fabric Requirements (with flame resistance).**

17) Passenger Seats

a. All passenger seats shall be mid-back and are required to meet all applicable FMVSS testing including FMVSS 210.

b. Two passenger, forward facing seats shall be 35" minimum width with a non-foam, black energy-absorbent, 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 17-½" minimum width with a black, energy-absorbent, vandal-proof grab handle mounted to the top of the seat back.

d. Forward facing seats shall have 27" minimum knee to hip room. In order to meet this requirement, some body lengths may slightly exceed the stated bus lengths.

e. Aisle facing seats shall have fold type arm rests on both ends if the seat is not against a modesty panel.

f. Aisles shall not be less than 16" wide except as noted in Part 3 of this section.

g. The first double seat on the passenger side of the bus shall have an integrated child restraint seat capable of safely carrying children of 20 to 50 pounds.

h. All seats shall be supported on the floor with high carbon steel support brackets. Seat frame shall be cold-roll steel tubing. Floor anchorage shall be neat and not interfere with entering and exiting the seat. All seat mounting bolts shall be corrosion resistant coated/plated fasteners. Passenger seating floor rail/track shall not be installed in the wheelchair lift or wheelchair securement areas. The Contractors shall provide certification test data that the installation of the seats, seat mountings including floor anchorage and floor fasteners shall meet all applicable FMVSS including FMVSS 207, 208, 209, and 210 for the bus model being offered.

i. All metal components of the seat assembly shall be coated with a powder coat epoxy paint finish that shall meet the following tests:

Salt Spray	480 hours	ASTM B117
Humidity Resistance	480 hours	ASTM D2247
Impact Resistance	To 80 inch-pounds	ASTM D2794

All testing is to be performed on standard metal seating materials that have coating thickness of 1.3 to 1.8 mils. Certified test documents are required.

j. The seating arrangements and configuration shall be furnished by the Program Manager or Designee and/or Ordering Entity.

k. Suggested sources: American Seating Horizon™ 8535 Mid-Back Series; C.E. White LE Series; Freedman Feather Weight.

18) Wheelchair Lift-Equipped Buses Folding Seats

a. Forward facing (double) fold-away or flip (double) seats with seat belts shall be provided in the wheelchair securement area per seating arrangements (see Section b.) (Seats shall be regular bench back seats over notch back seats)

b. 28, Wheelchair Securement Area). All side facing seats provided shall be flip seats. Fold-away or flip seats shall include all dimensional, structural and testing requirements of the standard seat specification. Seat locking/latching devices shall be of high quality and be easy to latch and unlatch. Seats must positively latch in the seated and folded position to prevent inadvertent folding or unfolding of the seat. Any support legs resting on flooring shall be non-marring or rest on metal plates flush mounted with flooring. All fold-away seats shall be able to pass FMVSS 210 without having to fasten additional latches or cables. All fold-away seats shall fold against the wall when wheelchair space is required (no further than 12" from wall in the vertical folded position). Seat may not extend into bus more than 37 ½" (two passenger) and 18 ½" (1 passenger) when folded down for passenger seating. Aisle space may be reduced to 14 inches where fold-up seating is placed on each side of the aisle or 15 ½" where placed opposite a stationary seat. The seat bottom cushion shall be a 5 degree tilt up from level, minimum, and back cushion shall be at 95 degrees, minimum. The seats shall be of the same design as the other passenger seats. All seat backs of the fold-away/fold-up seats shall be covered with material matching seat cushion color and fabric.

	Suggested source: American Seating Horizon™ 8800 Cantilevered Folding Seat or 8700 Flip-up; C.E. White LE Series; Freedman Feather Weight Foldaway or Mid-Hi Flip; Braun #125.
19)	**Seat Material**
a.	Seats shall be individually contoured to each passenger for occupant comfort and retention. Seats shall be covered with cloth-type woven fabric or vinyl fabric at the Ordering Entity's option. Cloth-type fabric or vinyl shall completely enclose the seat cushion and the seat back. Seat background colors shall be gray, red, blue, and other in-stock colors. All background colors shall be approved by the Program Manager or Designee.
b.	**Cloth-type Woven Fabric Requirements (with flame resistance)**
i	Minimum weight 23 ounces per linear yard.
ii	50,000 minimum double rubs (ASTM - 3597-77 Wyzewbeek Method).
iii	Color fastness to light 300 hours minimum (AATCC-16-1977 Carbon Arc.)
iv	Comply with California BLT-117.
v	All cloth-type woven fabrics except Holdsworth Wool shall be treated with a flame proofing solution following the manufacturer's specifications, No-Flame by Amalgamated Chemical Inc., or equal.
vi	The fabric shall be a plush material.
vii	Suggested source: Flame Resistant Fabrics by, CMI, Holdsworth Wool, or LaFrance Mills. Contractor shall provide technical data sheet including flammability and smoke emissions for the seat covering material supplied.
c.	**Vinyl Fabric**
i	Shall be transportation grade expanded vinyl, 35 ounces per linear yard minimum.
ii	Suggested source: Flame Resistant vinyl by CMI or Omnova. Contractor shall provide technical data sheet including flammability and smoke emissions for the seat covering material supplied.
d.	**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 with the seat information. Suggested source: Manufacturer's standard.
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 ½" overall.
e.	**Passenger Seat Belts**
i	The Contractor 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.
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.
iii	All seats shall be equipped with seat belts for each designated seating position.
iv	It is preferred that the latch end of the belt will have a locking retractor (buckle end locking retractor is acceptable). 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).
v	Belts shall have a push button latch release mechanism.
20)	**Handrails, Stanchions (Shall meet ADA regulations)**
a.	The handrails and stanchions shall be a minimum of 1¼" outside diameter. All handrails and stanchions shall be positioned so as not to interfere with wheelchair movement and shall meet ADA requirements for position and size. All handrails and stanchions in the passenger entrance area shall be highly visible yellow in color. All other handrails and stanchions shall be brushed stainless steel. Mounting brackets and fittings shall be composed of the same kind of material used for the stanchion or handrail. Stanchion mounting rubber grommets shall be able to handle roof to floor flex without excessive damage or ejection.
b.	All handrail and stanchion mountings shall have reinforcement plates welded to or imbedded in the structure behind surface panels of sufficient size and strength. Final locations shall be determined at pilot model inspection.
c.	A floor-to-ceiling vertical stanchion shall be provided in 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.
d.	A smoked Plexiglas panel, 3/8" thick, shall be provided 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. The panel shall be located to allow the driver's seat back to recline to ½ its maximum reclined adjustment with the driver's

	seat in the position furthest from the steering wheel. Panel may be incorporated into the stanchion and guardrail behind the driver and shall have cutouts to give hand access to the vertical stanchion.
e.	Floor-to-ceiling stanchions (yellow) shall be provided near aisle on each side of front entrance.
f.	Left and right side entrance handrails (yellow) shall be 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 rear of the front entrance steps, extending from the 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 provided and securely attached to roof structure. The 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 B--Buses, Vans and Systems, §38.29 requirements for position and size.
ii	All handrail mountings shall have reinforcement plates welded to or imbedded in structure behind surface panels of sufficient strength to withstand passenger force. Final locations shall be determined at pilot model production.
21) Interior Lighting	
a.	Overhead entrance and stepwell lights shall be LED and provide no less than two foot-candles of illumination on the entrance step tread, or lift or ramp with the door open. 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 door is open and meet ADA requirements.
b.	All lights shall have access holes large enough to easily remove electrical connector.
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.
d.	Stepwell light shall be on the side away from wheel splash.
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.
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.
22) Exterior Lighting	
a.	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 have the mounting to body sealed to prevent moisture intrusion and grounded to the frame.
b.	All lights shall have access holes large enough to easily remove electrical connector
c.	Exterior marker lights shall be light emitting diodes (LED) (2" in diameter sealed lamp) retained in a rubber grommet mounting and conform to Federal Motor Carrier Safety Regulations Part 393.
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.
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.
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.
g.	A red, 4”round, 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.
h.	Brake/tail lights shall be red 4" round sealed voltage regulated LED lamps and shall not override hazard flashers or turn signals.
i.	Directional rear turn signal lamps shall be amber 4" round sealed voltage regulated LED lamps.

j.	Back-up lamps shall be clear, 4", round, sealed, voltage regulated LED lamps. Back-up lights shall be 500 lumens minimum.
23) 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 0ºF to 60ºF 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 64ºF at knee level throughout interior of bus and at the driver's foot space when the outside temperature is 0ºF. 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.
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.
c.	Rear heating unit(s) shall distribute heat in at least a 180º direction and ensure air distribution to all passenger areas of the bus interior. Heating unit(s) shall have a minimum ¾" 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, Pro-Air, MCC Mobile Climate Control
d.	The premium heater hose (¾" ID minimum) shall be high temperature resistant Ethylene Propylene Diene Monomer (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 -40ºF to +300ºF minimum, with a burst pressure of 130 PSI minimum.
e.	Manual shut off valves for the rear heater shall be placed as close to the engine as is practical. The ¾" 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). Shut off valves shall be accessible by personnel without going under the bus. Location to be determined at pilot model inspection.
f.	Front heater shall have coolant temperature control valve or other controls which can regulate heater temperature from the driver's area.
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.
h.	Air Conditioning **(see section B. Body Structure and Exterior Panels, subsection 57. Options, item a. Air Conditioning – Split System, and item b. Air Conditioning/Heat – Rooftop System).**
24) 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, 1/8" 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.
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: Clear-Vision, Hehr, Kinro, Sampers.
c.	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.
d.	Windshield shall be OEM.
25) 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.

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:

i If on bare aluminum, use proper cleaner. Suggested sources: DuPont 2253, PPG followed by aluminum conversion. Suggested sources: DuPont 2265, PPG.

ii If on bare steel, use proper cleaner. Suggested sources: DuPont 5717S, PPG followed with steel conversion.

iii For all bare metal, use primer. Suggested sources: DuPont Prime 615/616 (two coats), PPG.

iv Appropriate prep to stainless steel surfaces shall be used to ensure proper paint adhesion.

v Appropriate primer as required shall be used on fiberglass surfaces.

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: DuPont, PPG Concept System, Sikkens Corporation U-Tech brand.

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 57. Options, item i. Paint – Optional Designs.** Special design paint application pricing will be negotiated at the time of ordering by the Ordering Entity.

26) 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 or glued in place 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 closed. Insulation shall not cover up electrical wiring harnesses, 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 insulation to keep driver's foot area cool during summer months, warm during winter months, and reduce engine noise to an acceptable level.

27) <u>Type I Lift, (Platform Type)</u> (Shall Meet ADA Requirements)

a. The Type I platform lift (passive lift) shall be installed in a separate door opening for use by persons with disabilities. The lift assembly shall be mounted within the bus body on the right (curb) side. The bus 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, 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 framing around the opening equal to the structural members of the body. The lift door(s) shall have an upper window similar to the side windows of the bus. Any exposed lift door frame structure shall be constructed of 304 stainless steel, a grade which does not discolor with aging.

c. The lift shall be an electro-hydraulic type. If the lift has a crossbar, it shall be above the door opening and well 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 prevent wheelchair from rolling off the platform during the lifting cycle. The Contractor 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 operable. Lift shall have manual override instructions visible from inside and outside the bus with door open.

e. The entire lift assembly shall be installed inside the bus 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 floor mounting points shall be reinforced and shall be attached with fasteners having a thread locking feature. Lift installation shall insure that no lift rattling exists when the bus is operated while the lift is stowed.

f. A lift control interlock system shall be installed that shall 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 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 indicator light (red, labeled) shall be provided at the 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 safe area for repairs. Suggested Source: Intelligent Lift Interlock System (ILIS) by Intermotive Products

g. All lift equipped buses shall display the international symbol of accessibility, one each on left and right side of the bus. Location shall be determined at pilot model inspection.

h. The lift shall meet ADA requirements as well as these minimum requirements.

- **i** Capacity 1,000 pounds minimum.
- **ii** Usable platform width 33" minimum.
- **iii** Usable platform length 50" minimum.
- **iv** Platform shall include automatic locking inboard safety wheel stop (minimum 6" height) and outboard safety wheel stops to prevent wheelchair from rolling off.
- **v** Platform shall automatically stop at floor level.
- **vi** Platform shall automatically stop when lowered to ground level.
- **vii** Hand held controls shall be conveniently located on a flexible or coiled, cut- resistant cable and shall be mounted with access from inside or outside the bus. The cable shall be routed to eliminate being pinched in any moving parts and be wrapped with a flexible exterior protective conduit.
- **viii** Platform, bridge plate, and area between bridge plate and aisle shall be skid resistant.
- **ix** Bridge plate and platform shall be coated to resist rust.
- **x** Platform shall have horizontal handrails (one each side) on platform to assist passenger during lift operations. Handrails (yellow) shall fold automatically to prevent any obstructions into the bus passenger area. (handrails that are the same color as the lift with yellow rubber hand rail cups are acceptable)
- **xi** Lift door operated interrupt switch shall prevent use of lift with lift door(s) closed. Heavy duty long life switches shall be used in this application.
- **xii** 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 yellow 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.
- **xiv** The wheelchair lift shall comply with all federal, Americans with Disabilities Act (ADA), and Veterans' Administration regulations.
- **xv** 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 is not in use.

28) Wheel Chair Securement Area

a. The wheelchair securement system shall be installed according to ADA requirements. 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.

b. Wheelchair securement shall meet these minimum requirements:

- **i** Forward facing wheelchair tie down and occupant restraint shall consist of four floor attachment 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). 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 and the front anchorage of the rear securement system. Width of anchorage track shall be no less than 30” wide allowing for the widest of mobility devices.
- **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. Belt ends with floor anchor attachments shall be easily identified for placement in the floor track.
- **v** 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 SAE J2249 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 Q-8100-A1L; Sure-Lok's Retraktor™ Systems for L track AL-712S-4C.

c. Restraint Storage System

i A wheelchair restraint storage system shall be positioned under the foldaway seats at each wheelchair space. Storage system shall:

1. Keep restraints clean.
2. Be free of any sharp edges.
3. Provide easy accessibility to restraints.
4. Restraints shall be stored securely to prevent noise while the vehicle is in motion.
5. Restraint storage system shall be compatible with the installed securement system (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 restraints can be stored off the floor in the bus when not in use. Location of storage pouch shall be determined by the Ordering Entity.

29) Chassis

a. The chassis shall have a pre-delivery inspection performed by a representative of the chassis manufacturer before the bus manufacturing process begins. A copy of the completed pre-delivery inspection form shall accompany the bare chassis and accompany the bus during manufacturing as part of the build order. All standard or optional chassis equipment to be included shall be as advertised by the manufacturer and factory installed and shall not consist of substitute or aftermarket equipment. Optional chassis equipment not available from the factory may be dealer installed. The chassis shall meet the following minimum requirements.

b. Chassis shall be designed for transit use with straight channel side rails of 36,000 pounds per square inch (PSI) minimum (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 OEM, front axle shall have kingpins and front axle shall be mounted for sharp steering angle (minimum lock angle of 48º). **Note:** If available from the chassis OEM, Axles (front and rear) shall be equipped with axle oil seals (Stemco, Chicago Rawhide, or equal), shall be filled with proper lubricating oil, and front hubs shall include fill plugs and fluid level windows.

30) Tilt Wheel/Power Steering

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.

31) Wheel 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.

32) 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 55. Safety Items, item h.).** and a water jacket block heater that is a 1000 watt 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.

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, Navistar International Transportation Corp. MaxxForce 7

c. Medium class two shall be an in-line 6 cylinder turbocharged diesel engine 6.0 litre minimum, 195 minimum 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

33) 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. Location shall be determined at the Pre-Pilot Model Review Meeting.

b. The heated coolant model shall be a self-contained unit 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 ¾" ID heavy-duty brass ¼ 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 heater 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 flow of 3.5 gallons per minute. The heated coolant system units shall have safety features for temperature regulating and overheat shut down switches. A seven day digital timer shall be used to control operation. The auxiliary heater exhaust shall exit just below the heater enclosure toward the rear of the bus or at the side of the bus. The coolant heater shall control coolant temperature between a low of 154ºF and a high of 185ºF. 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).

34) Transmission

The electronically controlled transmission shall be a minimum, heavy-duty, five-speed automatic cooled by an "H.D. transmission oil cooler" in series with radiator cooler or equal (cooler capacity to match GVWR of bus). The transmission shall have an external spin-on type filter. Suggested source: Allison Transmission 1000 or 2000 series or Ford Torqshift matched to the electronic engine and chassis. (Allison B220 Six Speed Automatic Transmission on Class two buses approved).

35) Alignment

The bus shall have a four wheel alignment at final point of inspection, just prior to delivery to the Ordering Entity. A copy of the work order indicating the camber, caster and toe-in settings at time of final inspection shall be provided with the bus at delivery.

36) Gross Bus Weight Rating

a. Medium Class One

- **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.

b. Medium Class Two

- **i** **I-Beam Front Axle Rating - 8,000-lb. minimum.** Bus axle weight shall not exceed chassis manufacturer's front axle weight rating or spring and tire capacity
- **ii** **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.
- **iii** **Chassis GVWR - 22,000-lb. minimum.** (See Purpose of Specifications Section I.) Engineering calculated loaded bus axle weight charts are required.

37) Differential

Heavy-duty rear axle with full floating axles. Gear ratio shall allow buses to travel approximately 65 miles M.P.H. loaded, maximize fuel economy, and not exceed manufacturer's recommended engine operating R.P.M. Axles shall be marked if synthetic oil is used.

38) Battery, Cables, and Grounds

a. The battery equipment shall be furnished by the chassis manufacturer where available. The dual batteries shall be maintenance free with reserve capacity of 400 minutes @ 80ºF, CCA-900 each, 12-volt minimum. The batteries installed in the bus must be a pair of matching units mounted in the same location. The batteries must be fresh, fully charged units when the finished bus leaves the manufacturing plant. Batteries that have been in the bus 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 OEM 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 with grease fittings, 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 vented and the tray shall be coated with an acid resistant coating. The battery compartment must be located below the floor line with adequate reinforcement brackets mounted to floor supports. The battery 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 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 (OEM). Positive cable ends at the battery shall use a protective cover

or cap as an added insulator. Cable assemblies installed in place of chassis manufacturer's battery 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 grounds (properly sized) shall be installed to handle subsystem electrical capacity. For all 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.

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.

39) Alternator

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 and have a ½" wide braided ground strap connected between the alternator frame and the engine block to reduce 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.

40) Engine Fast Idle

The engine shall be equipped with fast idle control which 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 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.

41) 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.

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.

42) Fuel Tank

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:

i Medium class one: 40 gallons (Approved for 26' Medium class two with 193" wheelbase)

ii Medium class two: 60 gallons

43) Hazard Flashers

Hazard flashers shall use the OEM switch and control system with an electronic flasher.

44) Shock Absorbers

	Chassis shall have gas filled shock absorbers front and rear, most heavy-duty available from chassis manufacturer.
45)	**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.
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 spring carrier assembly, a frame hanger assembly, a cross-member tube assembly, and a carrier spring assembly, 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® "RL" Suspension System.
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.
46)	**Stabilizer**
	Chassis shall have heavy-duty OEM suspension stabilizers if available.
47)	**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 white.
48)	**Tires**
a.	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: **i** Medium Class 1: 225/70R19.5 G/14 **ii** Medium Class 2: 245/70R19.5 F/12
49)	**Driveshaft**
	The multi-piece drive shaft shall be OEM and 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. 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.
50)	**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.
51)	**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 -35ºF freezing point). Radiator removal instructions and estimated removal time shall be furnished with first bus to each Ordering Entity. 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®, Clampco Products Inc., Oetiker that automatically adjust for thermal expansion and contraction to control leakage.) (OEM hose clamps approved)
52)	**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 inspection.
53)	**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.
b.	The buses shall be equipped with an OEM chrome trim package for the grill and front trim (if available).
54)	**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.
55)	**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:
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.
c.	*****One container of bi-directional emergency reflective triangles that meets FMVSS 125 and shall be in a location easily accessible to the driver.
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. Suggested source: OEM standard.
e.	*****An exterior height (clearance) decal shall be mounted in the driver's dash area.
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.
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.
h.	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: **i** Low oil pressure occurs. **ii** High coolant temperature occurs. **iii** 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. (OEM engine protection systems provided they shut down the engine prior to engine damage caused by low oil, high engine temperature, and/or low coolant are acceptable. All other specifications remain)
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.
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 (±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® 451, Truck-Lite
56)	**Electrical**
a.	All non OEM connections shall be <u>WeatherPack</u> (Amp Mate-n-lock connectors are approved providing they meet/exceed specifications)
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.
c.	Install a 12 volt power point for hand held equipment in the driver's area.
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.
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.

f.	All wiring added to chassis fuse block shall be securely fastened to prevent wires from being knocked loose or loosening from vibration. 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.
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.
h.	All accessories and accessory electrical equipment shall be wired through a constant solenoid 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 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. The constant solenoid 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.
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.
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 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 tank, and/or other accessories shall be supported and protected from the ice and snow build-up. Wiring shall be inside bus where possible. Wiring to taillights 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.
l.	Scotch lock wire connectors are not acceptable and shall 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 buses. Harness assemblies shall have connectors matching a mating connector where harnesses attach to other harnesses, switches, or other electrical units. Connections made in any harness assembly shall use Sta-Kon® disconnects and splice connectors where machine applied connectors cannot be used. Connectors shall be properly crimped with Sta-Kon® tools and covered with heat shrink tubing. In-line fuse assemblies shall use spade type fuses in a Weather-Pak holder and shall be located for ease of service.
ii	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.
57)	**Equipment Options**
a.	**Air Conditioning – Split System**
i	The air conditioning system (AC) shall have a separate compressor, condenser, and evaporator for the front system and for the rear system (two separate systems). The systems shall be 12-volt and use refrigerant type R-134A. The systems shall be of sufficient capacity to maintain interior temperature requirements stated in the test procedure for air conditioning systems during summer operation **(see section C. Vendor/Manufacturer Requirements, subsection 3. Air Conditioning Certification).**
ii	The front AC system shall be integrated as part of the front heating/ventilating unit including the driver's area evaporator unit (complete front system may be Chassis OEM with OEM 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.
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.
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. 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 located between compressor and condenser (for TXV systems) or between the condenser and the orifice tube (for orifice tube systems) in the high-pressure side of the system. Suggested sources: ACC Climate Control, American Cooling Technology, Inc., Thermo King, Trans/Air; MCC Mobile Climate Control
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. High pressure cut out switches shall be wired into the clutch circuit. The condensers 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 refrigerant dryer and a sight glass where necessary shall be included in the system. 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
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
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.
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 mounted at the rear of the passenger compartment.
ix	The components of the air conditioning system shall be readily accessible for maintenance. Service/charging ports shall be 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. The hose coupling end of all fittings shall include two hose barbs and two areas of elastomeric or HNBR seals. Refrigerant hose clamp construction shall: comply/exceed SAE specification J2064 Type D or E; be made of stainless steel to ensure coupling integrity; properly align 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.
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.
xi	Air conditioning electrical circuits shall be protected with manual resettable circuit breakers or fuses.
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.
b.	**Air Conditioning/Heat – Rooftop System**
	The rooftop AC system shall meet all of the requirements of the AC split system except that the rear evaporator and heating unit shall be an integral part of the rooftop AC unit so that the condenser unit, evaporator unit, and heating unit are part of a single roof mounted unit. 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. 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.; MCC Mobile Climate Control
c.	**Auxiliary 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.
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 supply--either 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.
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 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 supply--either gasoline or diesel. Suggested sources: Espar Inc., Webasto. This option is not available when combined with option **t.ii** - Liquefied Petroleum Gas (LPG) or Compressed Natural Gas (CNG). However, the Contractor is to seek solutions to make the option available according to requirements per section: **B. Body Structure and Exterior Panels, 57. Equipment options, c. Auxiliary Air Heater, iii.**
iv	**Option 1:** Provide an auxiliary air heater for a gas powered bus as specified above.
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).
d.	**Destination Signs**
i	**Option 1** – 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. Suggest source: Transign LLC.
ii	**Option 2** – 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® based software. All hardware and/or software shall be provided with the first bus purchased by each Ordering Entity. Suggested sources: Transign LLC Destinator, TwinVision MobiLite.
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.
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**
	The limited slip differential powers both wheels yet freely permits wheel speed differentiation when required during turning using standard OEM equipment.
h.	**Rear Emergency Exit Window**
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 provided to the rear exit window. No objects shall be placed in bus which restricts passageway to rear exit window. All emergency exits shall be marked with instructions for proper use.
ii	The bus rear exit window shall have a glue-on wide angle view Fresnel lens to improve vision directly in back of bus. Minimum size shall be 80 square inches. Suggested source: Vangard made by 3M.
i.	**Paint – 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.
ii	The bus shall have the roof painted a different color. An example would be: an OEM white bus with the roof painted red.

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.
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.
j.	**Lifts (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 27. Type I Lift,** except lifts that have an 800 lb capacity (in lieu of the standard Type I lift)
ii	Type I: A type I platform lift shall be offered in lieu of the standard 1,000 lb lift. Suggested sources: Braun, Ricon
iii	Type II; The Type II platform lift shall have a power operated outer barrier on the lift platform. Suggested sources: Braun, Ricon
iv	Folding Platform: The folding platform lift shall have a platform that folds in the center during stowage and the lift platform is 32" usable width. The folding platform lift provides an unobstructed view from inside the bus through the lift opening. Suggested Sources: Ricon KlearVue model K-5005 ADA
v	An alternate lift manufacturer shall be offered as an option for the Ordering Entity.
k.	**Wheelchair 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 meet the same requirements as listed in **section B. Body Structure and Exterior Panels, subsection 28. 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 ½" bolt to be secured to the floor positions. Measurement of the securement locations shall be 54" from front plane to rear plane 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 28. 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	Additional Wheelchair Securement Positions: Ordering Entities 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 28. Wheel Chair Securement Area and section B. Body Structure and Exterior Panels, subsection 57. Wheel Chair Securement Area, Item k.i Wheelchair Securement Optional Systems.** Seating shall be added or deducted to accommodate the additional wheelchair systems and shall meet vehicle weight requirements
l.	**Two 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.
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. For buses with FRP composite bodies, the mounting plates may be installed in the front cap of the bus-one centered in the roof section of the cap and one centered in the left (driver's) side section of the cap. Each mounting plate must be properly positioned in relation to its ground plane to ensure proper operation of an antenna installed at that mounting point. The total thickness of the exterior shell of the bus in the mounting plate area including the mounting plate shall be no more than ½".
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.
iv	A 6" high branch deflector shall be installed on the roof of the bus 6" forward of the antenna mounting area.
v	Two threaded type access holes with covers approximately 6" in diameter shall be installed at the following antenna mounting plate locations: **1.** The interior ceiling forward of the roof escape hatch. **2.** For buses with metal exterior skin directly to the left (driver's) side above the side window line of the bus. **3.** For buses with FRP composite bodies the screw-type access holes may be installed in the front cap of the bus, one centered in the roof section of the cap and one centered in the left side section of the cap. Adequate space shall be provided between the installed access cover and the inner body to allow for routing of the antenna lead and its connections without interference.
vi	A concealed thin wall plastic conduit, 5/8" I.D. minimum, (with antenna cable pull wire) shall extend from the antenna mounting plate locations (roof and above side window or in front cap) to the mounting location for the radio. When installed, the conduit shall have no sharp or right angle bends or be distorted to prevent insertion of the antenna lead. For both antenna mounting plate locations, sufficient space shall be left at each end of the conduit to allow easy removal and replacement of the devices attached to the cable. The antenna pull wire shall terminate behind the driver's seat with 2 feet of extra length extending into the bus interior.
vii	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.
viii	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.
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.
m.	**Stereo/Radio and Public Address System**
i	**Option 1:** 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
ii	**Option 2:** A public address (PA) system shall be installed in the dashboard area within reach of the driver and utilize a hand held 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
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
iv	**Option 4:** Additional speakers shall be offered at locations requested by the Ordering Entity.
n.	**Rear Air Ride Suspension (Medium Class One Only)**
	The rubber shear spring rear suspension will be replaced with rear axle air ride suspension. The rear axle air ride suspension shall be a spring-beam with air spring (Firestone or Monroe) 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.
o.	**Rubber Flooring**
i	In lieu of smooth, slip resistant flooring, the stepwell, entrance area, and center aisle floor area shall be overlaid with ribbed, slip resistant, oil resistant commercial 1/8" floor and 3/16" step tread thickness. Suggested Sources: RCA Rubber Transit-Flor®, Rubber Solutions N.A., SMI SpecFlor
ii	The aisle to door area flooring joint shall make a miter so that aisle and door area flooring grooves line up for easy cleaning.
iii	The 1/8" thickness flooring under the seats and in the wheelchair area shall be smooth, slip resistant, oil resistant. The flooring shall extend up the sidewall and rear wall to the seat rail line and shall be coved at the floor/wall joint to form a smooth water-tight transition. A 3" cove molding radius backing block shall be installed behind all floor coving. Flooring adhesive shall be oil resistant. Suggested Sources: RCA Rubber Transit-Flor®, Rubber Solutions N.A., SMI SpecFlor

iv	Color of all rubber flooring and step treads shall be equal to RCA Rubber Transit-Flor® grey (#766) or tan (#777) as requested by the Ordering Entity.
v	Step treads shall be one-piece ribbed rubber flooring with steel backing plate. Each tread shall have a band of bright yellow contrasting color molded in the full width of the step (must meet ADA contrast requirement). Step tread to stepwell joints shall be sealed to prevent intrusion of moisture and debris.
p.	**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 between two plies of .026" silicone rubber impregnated fiberglass cloth to maintain an approximate temperature of 160º F with a low temperature (30ºF) sensing switch (Warm Welcome® by Lighthouse International, Ltd.). The entire lower step heating 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 controlled by a on/off switch (labeled and located in the driver's switch bank) with an indicator light showing when the unit is on.
q.	**Electric Driveline Brake (Retarder)**
	The bus shall be equipped with a self-air-cooled eddy current electric driveline brake (retarder). Main components of the brake shall be electromagnets (brake coils) fixed to the bus frame, two vented rotors, and a controller. The brake shall be mounted between the transmission and the rear axle. 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
r.	**Seating (Additions and Deductions)**
i	On buses with a rear exit window, forward facing 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 deduct seats from the provided floor plans.
iii	All additional transit style seats shall be of the same 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 16. Driver 's Seats and subsection 19. Seat material.**
s.	**Driver's Power Seat Base (Class One Only)**
	Provide a six-way power seat base for standard driver's seat that allows for fore and aft, up and down, front tilt and rear tilt for the driver. Suggested source: Chassis Original Equipment Manufacturer (OEM) Deluxe Power Seat Base.
t.	**Alternative Engines**
i	Gasoline: In lieu of a diesel engine on the medium class one chassis, the engine shall be a gasoline V10, fuel injected, (6.8 litre) minimum
ii	**Liquefied Petroleum Gas (LPG) or Compressed 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 engine/chassis shall include a gaseous fuel preparation package and the cylinder heads shall have hardened valve seats. All LPG and CNG conversions shall maintain OEM powertrain warranties.
iii	On buses ordered with alternate fuels options (LPG, CNG, etc.) auxiliary heater systems are not available. However, the Contractor is to seek solutions to make the following option available according to the following requirements: auxiliary heater systems installed shall meet the 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: TBD
u.	**Stop Request System**
i	An interior *"Stop Requested"* sign, chime, and driver signal activation system shall be installed, and activated by ¼" 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.
ii	A *"Stop Requested"* message in Helvetica medium yellow letters on a green 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.
v.	**Back-up Sensor System**

A rear back-up sensor system shall be installed 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

w. Video Surveillance System

i The onboard digital video surveillance system shall include a four channel (minimum) mobile rated digital video recorder (DVR) that can be configured for a one to four camera system. The on-board DVR System shall include a lockable/removable 320 gigabyte (minimum) hard disk drive caddy. USB data ports, analog audio/video RCA out terminals, a 10/100base-T Ethernet port, two analog audio/video (RCA) outputs, 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 functions. The DVR shall be capable of a display resolution of 720 x 480. 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.

iii Sensors shall record bus signals including turn, hazards lights, and lift operations at a minimum.

iv A GPS receiver shall continuously monitor bus location, heading, and speed, as well as configurable and automatic time and date synchronization. The GPS antenna shall be roof mounted.

v Microsoft® Windows compliant viewing software shall be included with the first bus delivered to the Ordering Entity. Software shall be able to view and search video from the hard drive, display a GPS map, graph speed, and save the videos.

vi Interior and exterior cameras shall be color, 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 Entities shall have the flexibility to position cameras. Below is a list of interior locations and optional cameras:

1. Two Camera System: A two camera system shall be provided capturing the driver, passengers, stepwell, and farebox/donation box at a minimum.
2. 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.
3. Six Camera System: A six camera system shall include an eight channel (minimum) DVR and a 500 gigabyte minimum hard drive. Camera locations shall be same the two and four camera system with the addition of another interior camera (located at the requested of the Ordering Entity) and an exterior camera facing forward capturing the passenger door.
4. Additional Interior Cameras: Ordering Entities 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.
5. Exterior Cameras: Ordering Entities 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.
6. Suggested sources: Radio Engineering Incorporated (REI) Bus Watch

x. Video Surveillance Preparation Package

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. The Ordering Entity shall specify the camera system to use and have the flexibility to position cameras.

y. Spare Tires

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.

C. VENDOR/MANUFACTURER REQUIREMENTS

1) Bus Information Furnished

Bus information in this section shall be submitted and 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 Ordering Entity.

a. Copy of manufacturer's statement of origin for a bus.

b. * Warranty papers for chassis, body, and additional equipment with each bus at delivery.

c.	* 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 a 2' x 3' laminated poster and also in an electronic copy (CD, DVD, or USB flash drive).
d.	* Operator's manual for bus and all add-on equipment with each bus.
e.	* 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 Ordering Entity.
f.	* Drivability and emissions manual for the first bus of each model year delivered to each Ordering Entity.
g.	* Bus operating instructions showing controls and operation for the first bus delivered to each Ordering Entity and in an electronic copy (CD, DVD, or USB flash drive).
h.	* 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.
i.	* 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.
j.	* 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.
k.	* Proof of undercoating (warranty) at final bus inspection and with each bus.
l.	* Front end and rear towing and lifting instructions with each bus.
m.	* Wheelchair securement product instructions and training program.
n.	***** The bus manufacturer shall provide air conditioning system performance certification (**see section C. Vendor/Manufacturer Requirements, subsection 3. Air Conditioning Certification).**
o.	***** 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).**
2)	**Manufacturer Quality Control**
a.	Bus Contractor/Manufacturer shall provide a plan for quality control during bus construction. Bus Contractor/Manufacturer shall also provide the name of the chief of quality control for bus construction.
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 shall verify that each transit bus is manufactured in accordance with these controlled drawings and documentation.
c.	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, under-body dress-up and completion, bus prior to final paint touch-up, bus prior to road test, bus final road 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 conformance with the qualified bus design.

d.	The State and/or the Ordering Entity may be represented 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 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 100ºF for 4 hours minimum, to simulate sun load entering windshield, and to maintain 100ºF exterior temperature continuously after heat soak during testing. *Four hour soak will commence once bus internal temperature reaches 100°F.* An interior temperature of 72ºF (±3ºF) 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.
c.	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.
4)	**Heating/Ventilating Certification**
a.	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.
b.	The bus will be cold soaked at 0°F (+/- 3°F) for 4 hours minimum. An exterior temperature of 0°F (+/- 3°F) shall be maintained during the test. An interior temperature of 64°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. No dynamometer will be used.
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.
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.
5)	**Purchaser Inspection**
	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.
6)	**Warranty**
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:
b.	Two (2) years or OEM on chassis.
c.	Two (2) years or OEM on transmission.
d.	Three (3) years on body structure, exterior and paint.
e.	Eighteen (18) months on lift or OEM (whichever is greater).
f.	All wiring shall be warranted for one 1 year from date of delivery.
g.	Manufacturer's standard warranty of one (1) year, minimum, on other add-on components and items.
h.	The chassis, body, and all add-on components shall be warranted by the Contractor.
7)	**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.
b.	Any in-line equipment changes shall have prior written approval of the State.
c.	The Contractor shall supply the bus turning radius: wheel-to-wheel and wall-to-wall.
d.	The Contractor shall furnish warranty procedure instructions and necessary forms used by customers to obtain necessary warranty repairs.
e.	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 Ordering Entity. 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 7.4 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.

TABLE 1

1. Materials tested for surface flammability should not exhibit any flaming running, or 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_s (Procedure 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 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.

5. 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 performance criteria 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/cm² 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, FED–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) 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]

BILLING CODE 4910–57–P

IX. TABLE 1

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

Category	Function of Material	Test Procedure	Performance Criteria
Seating	Cushion[1;2;3;5;9*]	ASTM D-3675	$I_s \leq 25$
		ASTM E-662	$D_s(1.5) \leq 100; D_s(4.0) \leq 200$
	Frame[1;5;8]	ASTM E-162	$I_s \leq 35$
		ASTM E-662	$D_s(1.5) \leq 100; D_s(4.0) \leq 200$
	Shroud[1;5]	ASTM E-162	$I_s \leq 35$
		ASTM E-662	$D_s(1.5) \leq 100; D_s(4.0) \leq 200$
	Upholstery[1;3;4;5]	FAR 25.853 (Vertical)	Flame time ≤ 10 seconds; burn length ≤ 6 inches
		ASTM E-662	$D_s(4.0) \leq 250$ coated; $D_s(4.0) \leq 100$ uncoated
Panels	Wall[1;5]	ASTM E-162	$I_s \leq 35$
		ASTM E-662	$D_s(1.5) \leq 100; D_s(4.0) \leq 200$
	Ceiling[1;5]	ASTM E-162	$I_s \leq 35$
		ASTM E-662	$D_s(1.5) \leq 100; D_s(4.0) \leq 200$
	Partition[1;5]	ASTM E-162	$I_s \leq 35$
		ASTM E-662	$D_s(1.5) \leq 100; D_s(4.0) \leq 200$
	Windscreen[1;5]	ASTM E-162	$I_s \leq 35$
		ASTM E-662	$D_s(1.5) \leq 100; D_s(4.0) \leq 200$
	HVAC Ducting[1;5]	ASTM E-162	$I_s \leq 35$
		ASTM E-662	$D_s(4.0) \leq 100$
	Light Diffuser[5]	ASTM E-162	$I_s \leq 100$
		ASTM E-662	$D_s(1.5) \leq 100; D_s(4.0) \leq 200$
Flooring	Wheel Well and Structural[6]	ASTM E-119	Pass
	Carpeting[7]	ASTM E-648	C.R.F. ≥ 0.5 w/cm^2
Insulation	Thermal[1;3;5]	ASTM E-162	$I_s \leq 25$
		ASTM E-662	$D_s(4.0) \leq 100$
	Acoustic[1;3;5]	ASTM E-162	$I_s \leq 25$
		ASTM E-662	$D_s(4.0) \leq 100$
Miscellaneous	Firewall[6]	ASTM E-119	Pass
	Exterior Shell[1;5]	ASTM E-162	$I_s \leq 35$
		ASTM E-662	$D_s(1.5) \leq 100; D_s(4.0) \leq 200$

* 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

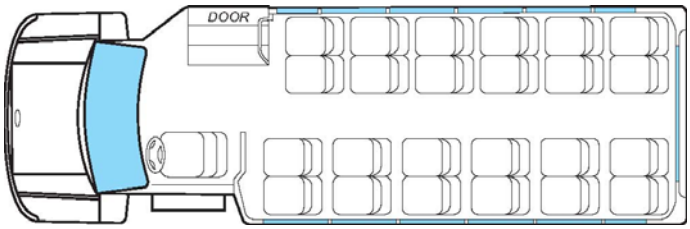
32-passenger (32 foot bus):

- **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

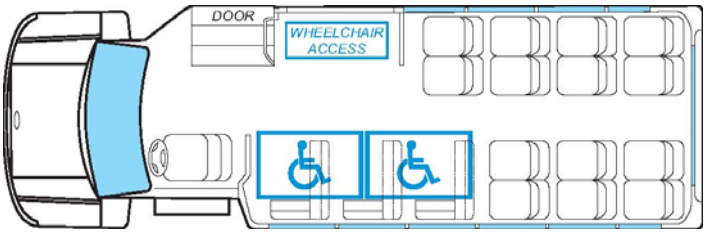
Drawings for the suggested seating arrangements are supplied on the following pages.

Bus Floor Plans

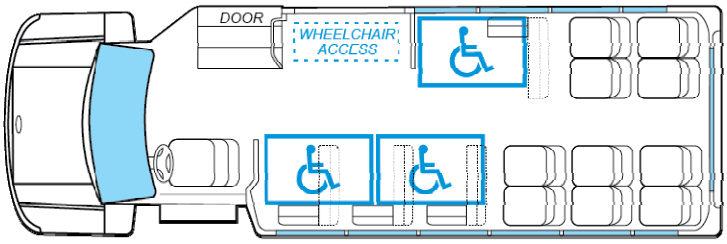
26 Foot



A. 24 Passenger bus without lift

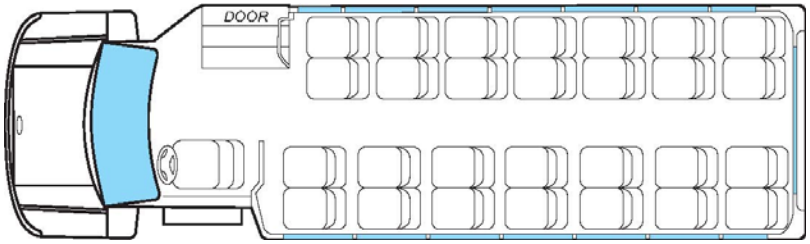


B. 14+2 Passenger bus with lift

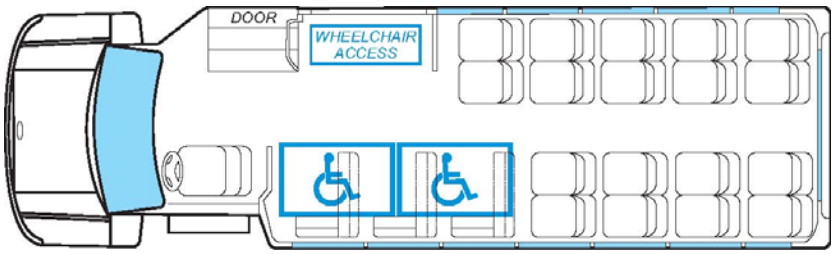


C. 10+3 Passenger bus with lift

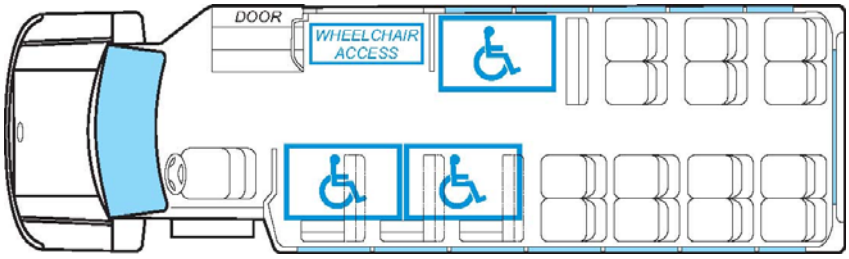
29 Foot



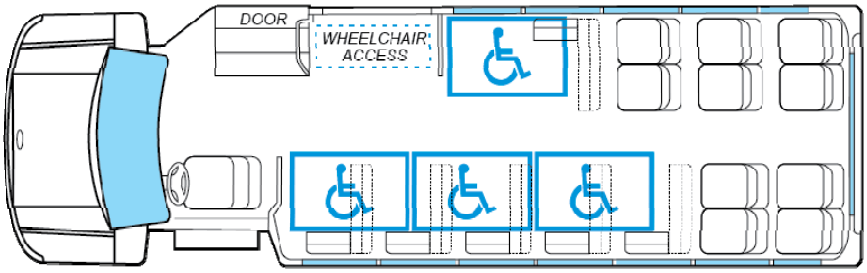
D. 28 Passenger bus without lift



E. 18+2 Passenger bus with lift

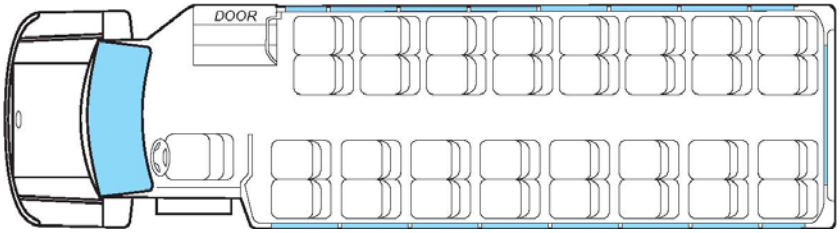


F. 14+3 Passenger bus with lift

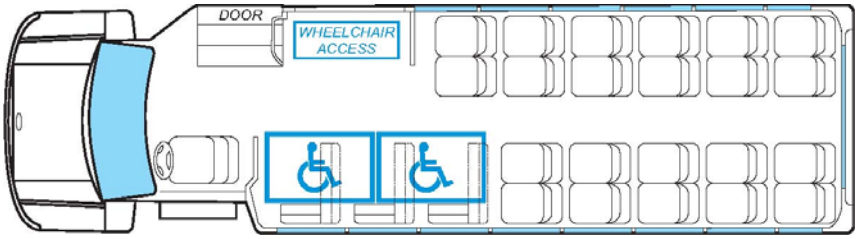


G. 10+4 Passenger bus with lift

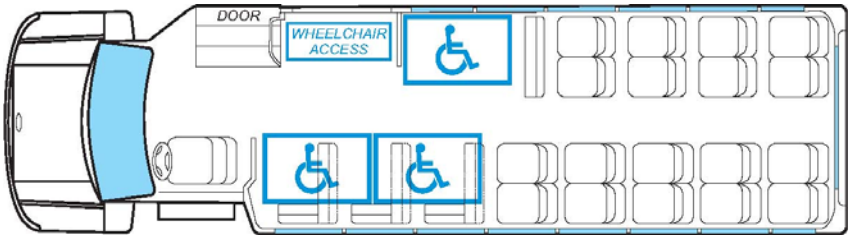
32 Foot



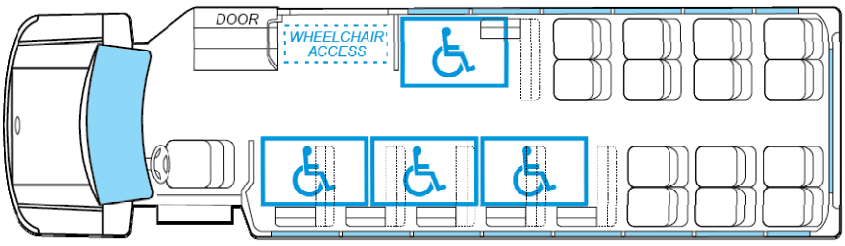
H. 32 Passenger bus without lift



I. 22+2 Passenger bus with lift



J. 18+3 Passenger bus with lift



K. 14+4 Passenger bus with lift

Federally Required Contract Clauses (Rolling Stock)

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Schedule "C" – (Composite Body)

Federal Contract Clauses (Rolling Stock) Page 2

INSTRUCTIONS

About: This document contains the federally required contract clauses for a rolling stock procurement greater than $100,000.

Vendor Instructions: Return copies of these pages with your bids. Fill in parts 1, 5, 6, 7, and 20.

1. BUY AMERICA REQUIREMENTS

The contractor agrees to comply with 49 U.S.C. 5323(j) and 49 C.F.R. Part 661, which provide 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 C.F.R. 661.7, and include microcomputer equipment and software. Separate requirements for rolling stock are set out at 49 U.S.C. 5323(j)(2)(C) and 49 C.F.R. 661.11. Rolling stock must be assembled in the United States and have a 60 percent domestic content.

A bidder or offeror must submit to the FTA recipient the appropriate Buy America certification (below) with all bids or offers on FTA-funded contracts, except those subject to a general waiver. Bids or offers that are not accompanied by a completed Buy America certification must be rejected as nonresponsive. This requirement does not apply to lower tier subcontractors.

Certification requirement for procurement of steel, iron, or manufactured products.

Certificate of Compliance with 49 U.S.C. 5323(j)(1)
The bidder or offeror hereby certifies that it will meet the requirements of 49 U.S.C. 5323(j)(1) and the applicable regulations in 49 C.F.R. Part 661.5.

Date 2-3-2016

Signature Dani Hendrickson

Company Name El Dorado National-KS.

Title Sales Coordinator

Certificate of Non-Compliance with 49 U.S.C. 5323(j)(1)
The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. 5323(j)(1) and 49 C.F.R. 661.5, but it may qualify for an exception pursuant to 49 U.S.C. 5323(j)(2)(A), 5323(j)(2)(B), or 5323(j)(2)(D), and 49 C.F.R. 661.7.

Date _____

Signature _____

Company Name _____

Title _____

Certification requirement for procurement of buses, other rolling stock and associated equipment.

Certificate of Compliance with 49 U.S.C. 5323(j)(2)(C).
The bidder or offeror hereby certifies that it will comply with the requirements of 49 U.S.C. 5323(j)(2)(C) and the regulations at 49 C.F.R. Part 661.11.

Date 2-3-2016

Signature Dana Hendrickson

Company Name El Dorado National - KS.

Title Sales Coordinator

Certificate of Non-Compliance with 49 U.S.C. 5323(j)(2)(C)
The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. 5323(j)(2)(C) and 49 C.F.R. 661.11, but may qualify for an exception pursuant to 49 U.S.C. 5323(j)(2)(A), 5323(j)(2)(B), or 5323(j)(2)(D), and 49 CFR 661.7.

Date _____

Signature _____

Company Name _____

Title _____

2. CARGO PREFERENCE REQUIREMENTS 46 U.S.C. 1241/46 CFR Part 381

Use of United States-Flag Vessels - The contractor agrees:

a. to use privately owned United States-Flag commercial vessels to ship at least 50 percent 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 United States-Flag commercial vessels;
b. to furnish within 20 working days following the date of loading for shipments originating within the United States or within 30 working days following the date of leading for shipments originating outside the United States, a legible copy of a rated, "on-board" commercial ocean bill-of -lading in English for each shipment of cargo described in the preceding paragraph to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590 and to the FTA recipient (through the contractor in the case of a subcontractor's bill-of-lading.)
c. to include these requirements in all subcontracts issued pursuant to this contract when the subcontract may involve the transport of equipment, material, or commodities by ocean vessel.

3. ENERGY CONSERVATION REQUIREMENTS 42 U.S.C. 6321 et seq./49 CFR Part 18

The contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

4. CLEAN WATER REQUIREMENTS 33 U.S.C. 1251

(1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq. The Contractor agrees to report each violation to the Purchaser and understands and agrees that the Purchaser will, in turn, report each violation as required to assure notification to FTA and the appropriate EPA Regional Office.
(2) The Contractor also agrees to include these requirements in each subcontract exceeding $100,000 financed in whole or in part with Federal assistance provided by FTA.

5. **BUS TESTING** 49 U.S.C. 5323(c)/49 CFR Part 665

The Contractor [Manufacturer] agrees to comply with 49 U.S.C. A 5323(c) and FTA's implementing regulation at 49 CFR Part 665 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 at a point in the procurement process specified by the recipient which will be prior to the recipient's final acceptance of the first vehicle.
2) A manufacturer who releases a report under paragraph 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 recipient's final acceptance of the first vehicle. If the 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 United States before October 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.

Date: 2-3-2016

Signature: Darin Hendrickson

Company Name: El Dorado National - KS.

Title: Sales Coordinator

6. PRE-AWARD AND POST DELIVERY AUDITS REQUIREMENTS 49 U.S.C. 5323/49 CFR Part 663

The Contractor agrees to comply with 49 U.S.C. § 5323(l) 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.

BUY AMERICA CERTIFICATE OF COMPLIANCE WITH FTA REQUIREMENTS FOR BUSES, OTHER ROLLING STOCK, OR ASSOCIATED EQUIPMENT

(To be submitted with a bid or offer exceeding the small purchase threshold for Federal assistance programs, currently set at $100,000.)

Certificate of Compliance

The bidder hereby certifies that it will comply with the requirements of 49 U.S.C. Section 5323(j)(2)(C), Section 165(b)(3) of the Surface Transportation Assistance Act of 1982, as amended, and the regulations of 49 C.F.R. 661.11:

Date: 2-3-2016

Signature: Dania [illegible]

Company Name: El Dorado National-KS.

Title: Sales Coordinator

Certificate of Non-Compliance

The bidder hereby certifies that it cannot comply with the requirements of 49 U.S.C. Section 5323(j)(2)(C) and Section 165(b)(3) of the Surface Transportation Assistance Act of 1982, as amended, but may qualify for an exception to the requirements consistent with 49 U.S.C. Sections 5323(j)(2)(B) or (j)(2)(D), Sections 165(b)(2) or (b)(4) of the Surface Transportation Assistance Act, as amended, and regulations in 49 C.F.R. 661.7.

Date: _____

Signature: _____

Company Name: _____

Title: _____

7. LOBBYING 31 U.S.C. 1352/49 CFR Part 19/49 CFR Part 20

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 $100,000 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.

APPENDIX A, 49 CFR PART 20--CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

(To be submitted with each bid or offer exceeding $100,000)

The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*)]

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

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.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such expenditure or failure.]

The Contractor, Hoekstra Trans certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.

_____ Signature of Contractor's Authorized Official

Steve Bolin CPM Name and Title of Contractor's Authorized Official

1.3.2016 Date

8. ACCESS TO RECORDS AND REPORTS 49 U.S.C. 5325/18 CFR 18.36 (i)/49 CFR 633.17

The following access to records requirements apply to this Contract:

1. Where the Purchaser is not a State but a local government and is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C.F.R. 18.36(i), the Contractor agrees to provide the Purchaser, the FTA Administrator, the Comptroller General of the United States or any of their authorized representatives access to any books, documents, papers and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts and transcriptions. Contractor also agrees, pursuant to 49 C.F.R. 633.17 to provide the FTA Administrator or his authorized representatives including any PMO Contractor access to Contractor's records and construction sites pertaining to a major capital project, defined at 49 U.S.C. 5302(a)1, which is receiving federal financial assistance through the programs described at 49 U.S.C. 5307, 5309 or 5311.

2. Where the Purchaser is a State and is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C.F.R. 633.17, Contractor agrees to provide the Purchaser, the FTA Administrator or his authorized representatives, including any PMO Contractor, access to the Contractor's records and construction sites pertaining to a major capital project, defined at 49 U.S.C. 5302(a)1, which is receiving federal financial assistance through the programs described at 49 U.S.C. 5307, 5309 or 5311. By definition, a major capital project excludes contracts of less than the simplified acquisition threshold currently set at $100,000.

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 the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C.F.R. 19.48, Contractor agrees to provide the Purchaser, FTA Administrator, the Comptroller General of the United States or any of their duly authorized representatives with 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 any Purchaser which is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 U.S.C. 5325(a) enters into a contract for a capital project or improvement (defined at 49 U.S.C. 5302(a)1) through other than competitive bidding, the Contractor shall make available records related to the contract to the Purchaser, the Secretary of Transportation and the Comptroller General or any authorized officer or employee of any of them for the purposes of conducting an audit and inspection.

5. The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

6. The Contractor agrees to maintain all books, records, accounts and reports required under this contract for a period of not less than three 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 Purchaser, the FTA Administrator, the Comptroller General, or any of their duly authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto. Reference 49 CFR 18.39(i)(11).

7. FTA does not require the inclusion of these requirements in subcontracts.

Requirements for Access to Records and Reports by Types of Contract

Contract Characteristics		Operational Service Contract	Turnkey	Construction	Architectural Engineering	Acquisition of Rolling Stock	Professional Services
I State Grantees a. Contracts below SAT ($100,000) b. Contracts above $100,000/Capital Projects		None None unless[1] non-competitive award	Those imposed on state pass thru to Contractor	None Yes, if non-competitive award or if funded thru[2] 5307/5309/5311	None None unless non-competitive award	None None unless non-competitive award	None None unless non-competitive award
II Non State Grantees a. Contracts below SAT ($100,000) b. Contracts above $100,000/Capital Projects		Yes[3] Yes[3]	Those imposed on non-state Grantee pass thru to Contractor	Yes Yes	Yes Yes	Yes Yes	Yes Yes

Sources of Authority:
[1] 49 USC 5325 (a)
[2] 49 CFR 633.17
[3] 18 CFR 18.36 (i)

9. FEDERAL CHANGES 49 CFR Part 18

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

10. CLEAN AIR 42 U.S.C. 7401 et seq/40 CFR 15.61/49 CFR Part 18

(1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. §§ 7401 et seq. The Contractor agrees to report each violation to the Purchaser and understands and agrees that the Purchaser will, in turn, report each violation as required to assure notification to FTA and the appropriate EPA Regional Office.

(2) The Contractor also agrees to include these requirements in each subcontract exceeding $100,000 financed in whole or in part with Federal assistance provided by FTA.

11. RECYCLED PRODUCTS 42 U.S.C. 6962/40 CFR Part 247/Executive Order 12873

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.

12. NO GOVERNMENT OBLIGATION TO THIRD PARTIES

No Obligation by the Federal Government.

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

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

13. PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS AND RELATED ACTS

31 U.S.C. 3801 et seq. /49 CFR Part 31 18 U.S.C. 1001/49 U.S.C. 5307

(1) The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. § 3801 et seq. and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 C.F.R. Part 31, apply to its actions pertaining to this Project. Upon execution of the underlying contract, the 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 the FTA assisted project for which this contract work is being performed. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the Federal Government deems appropriate.

(2) The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance originally awarded by FTA under the authority of 49 U.S.C. § 5307, the Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5307(n)(1) on the Contractor, to the extent the Federal Government deems appropriate.

(3) The Contractor agrees to include the above two clauses in each subcontract financed in whole or in part with Federal assistance provided by FTA. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

14. TERMINATION 49 U.S.C. Part 18/FTA Circular 4220.1F

a. Termination for Convenience (General Provision) The (Recipient) may terminate this contract, in whole or in part, at any time by written notice to the Contractor when it is in the Government's best interest. The Contractor shall be paid its costs, including contract close-out costs, and profit on work performed up to the time of termination. The Contractor shall promptly submit its termination claim to (Recipient) to be paid the Contractor. If the Contractor has any property in its possession belonging to the (Recipient), the Contractor will account for the same, and dispose of it in the manner the (Recipient) directs.

b. Termination for Default [Breach or Cause] (General Provision) If the Contractor does not deliver supplies in accordance with the contract delivery schedule, or, if the contract is for services, the Contractor fails to perform in the manner called for in the contract, or if the 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 on the contractor setting forth the manner in which the Contractor is in default. The contractor will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract.
If it is later determined by the (Recipient) that the 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 the Contractor, the (Recipient), after setting up a new delivery of performance schedule, may allow the Contractor to continue work, or treat the termination as a termination for convenience.

c. Opportunity to Cure (General Provision) The (Recipient) in its sole discretion may, in the case of a termination for breach or default, allow the Contractor [an appropriately short period of time] in which to cure the defect. In such case, the notice of termination will state the time period in which cure is permitted and other appropriate conditions

If Contractor fails to remedy to (Recipient)'s satisfaction the breach or default of any of the terms, covenants, or conditions of this Contract within [ten (10) days] after receipt by Contractor of written notice from (Recipient) setting forth the nature of said breach or default, (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 (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 (Recipient) elects to waive its remedies for any breach by Contractor of any covenant, term or condition of this Contract, such waiver by (Recipient) shall not limit (Recipient)'s 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 Government's interest. If this 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.

f. Termination for Default (Supplies and Service) If the Contractor fails to deliver supplies or to perform 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 the Contractor a Notice of Termination specifying the nature of the default. The Contractor will 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 the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the Recipient.

g. Termination for Default (Transportation Services) If the 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 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 the Contractor a Notice of Termination specifying the nature of default. The Contractor will 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 the Contractor has possession of Recipient goods, the Contractor shall, upon direction of the (Recipient), protect and preserve the goods until surrendered to the Recipient or its agent. The Contractor and (Recipient) shall agree on payment for the preservation and protection of goods. Failure to agree on an amount will be resolved under the Dispute clause.

If, after termination for failure to fulfill contract obligations, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the (Recipient).

h. Termination for Default (Construction) If the Contractor refuses or fails to prosecute the work or any separable part, with the diligence that will insure its completion within the time specified in this contract or any extension or fails to complete the work within this time, 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 the

Contractor a Notice of Termination specifying the nature of the 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. The Contractor and its sureties shall be liable for any damage to the Recipient resulting from the Contractor's refusal or failure to complete the work within specified time, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the Recipient in completing the work.

The Contractor's right to proceed shall not be terminated nor the Contractor charged with damages under this clause if-

1. the delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the 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

2. the contractor, within [10] days from the beginning of any delay, notifies the (Recipient) in writing of the causes of delay. If in the judgment of the (Recipient), the delay is excusable, the time for completing the work shall be extended. The judgment of the (Recipient) shall be final and conclusive on the parties, but subject to appeal under the Disputes clauses.
    a. If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination had been issued for the convenience of the Recipient.

i. Termination for Convenience or Default (Architect and Engineering) The (Recipient) may terminate this contract in whole or in part, for the Recipient's convenience or because of the failure of the Contractor to fulfill the contract obligations. The (Recipient) shall terminate by delivering to the Contractor a Notice of Termination specifying the nature, extent, and effective date of the termination. Upon receipt of the notice, the Contractor shall (1) immediately discontinue all services affected (unless the notice directs otherwise), and (2) deliver to the Contracting Officer all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated in performing this contract, whether completed or in process.

If the termination is for the convenience of the Recipient, the Contracting Officer shall make an equitable adjustment in the contract price but shall allow no anticipated profit on unperformed services.

If the termination is for failure of the Contractor to fulfill the contract obligations, the Recipient may complete the work by contact or otherwise and the 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 the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the Recipient.

j. Termination for Convenience of Default (Cost-Type Contracts) The (Recipient) may terminate this contract, or any portion of it, by serving a notice or termination on the Contractor. The notice shall state whether the termination is for convenience of the (Recipient) or for the default of the Contractor. If the termination is for default, the notice shall state the manner in which the contractor has failed to perform the requirements of the contract. The Contractor shall account for any property in its possession paid for from funds received from the (Recipient), or property supplied to the Contractor by the (Recipient). If the termination is for default, the (Recipient) may fix the fee, if the contract provides for a fee, to be paid the contractor in proportion to the value, if any, of work performed up to the time of termination. The Contractor shall promptly submit its termination claim to the (Recipient) and the parties shall negotiate the termination settlement to be paid the Contractor.

If the termination is for the convenience of the (Recipient), the Contractor shall be paid its contract close-out 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 the 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 the contractor, the (Recipient), after setting up a new work schedule, may allow the Contractor to continue work, or treat the termination as a termination for convenience.

15. GOVERNMENT-WIDE DEBARMENT AND SUSPENSION (NONPROCUREMENT)
49 CFR Part 29/Excutive Order 12549/Exectuve Order 12689/31 U.S.C. 6101 note (Section 2455, Public Law 103-355, 108 Stat. 3327)

Suspension and Debarment

This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the contractor is required to verify that none of the contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945.

The contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into.

By signing and submitting its bid or proposal, the bidder or proposer certifies as follows:

The certification in this clause is a material representation of fact relied upon by the **State of Michigan**. If it is later determined that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to **State of Michigan**, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder or proposer agrees to comply with the requirements of 49 CFR 29, Subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

16. PRIVACY ACT REQUIREMENTS 5 U.S.C. 552

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.

17. CIVIL RIGHTS REQUIREMENTS 29 U.S.C. § 623, 42 U.S.C. § 2000/42 U.S.C. § 6102, 42 U.S.C. § 12112/42 U.S.C. § 12132, 49 U.S.C. § 5332/29 CFR Part 1630/41 CFR Parts 60 et seq.

The following requirements apply to the underlying contract:

(1) Nondiscrimination - In accordance with Title VI of the Civil Rights Act, as amended, 42 U.S.C. § 2000d, section 303 of the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6102, section 202 of the Americans with Disabilities Act of 1990, 42 U.S.C. § 12132, and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, or disability. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.

(2) Equal Employment Opportunity - The following equal employment opportunity requirements apply to the underlying contract:

(a) Race, Color, Creed, National Origin, Sex - In accordance with Title VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e, and Federal transit laws at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 C.F.R. Parts 60 et seq., (which implement Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," 42 U.S.C. § 2000e note), and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may in the future affect construction activities undertaken in the course of the Project. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(b) Age - In accordance with section 4 of the Age Discrimination in Employment Act of 1967, as amended, 29 U.S.C. § § 623 and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(c) Disabilities - In accordance with section 102 of the Americans with Disabilities Act, as amended, 42 U.S.C. § 12112, the Contractor agrees that it will comply with the requirements of

U.S. Equal Employment Opportunity Commission, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 C.F.R. Part 1630, pertaining to employment of persons with disabilities. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(3) The Contractor also agrees to include these requirements in each subcontract financed in whole or in part with Federal assistance provided by FTA, modified only if necessary to identify the affected parties.

18. BREACHES AND DISPUTE RESOLUTION 49 CFR Part 18/FTA Circular 4220.1F

Disputes - Disputes arising in the performance of this Contract which are not resolved by agreement of the parties shall be decided in writing by the authorized representative of (Recipient)'s [title of employee]. This decision shall be final and conclusive unless within [ten (10)] days from the date of receipt of its copy, the Contractor mails or otherwise furnishes a written appeal to the [title of employee]. In connection with any such appeal, the Contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the [title of employee] shall be binding upon the Contractor and the Contractor shall abide be the decision.

Performance During Dispute - Unless otherwise directed by (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 therefor shall be made in writing to such other party within a reasonable time after the first observance of such injury of damage.

Remedies - Unless this contract provides otherwise, all claims, counterclaims, disputes and other matters in question between the (Recipient) and the 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 State in which the (Recipient) is located.

Rights and Remedies - The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by the (Recipient), (Architect) 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 thereunder, except as may be specifically agreed in writing.

19. DISADVANTAGED BUSINESS ENTERPRISE (DBE) 49 CFR Part 26

a. The contractor shall not discriminate on the basis of race, color, 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 U.S. DOT-assisted 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 **State of Michigan** deems appropriate. Each subcontract the contractor signs with a subcontractor must include the assurance in this paragraph (*see* 49 CFR 26.13(b)).

b. 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.* Each subcontract the contractor signs with a subcontractor must include the assurance in this paragraph (*see* 49 CFR 26.13(b)). Accordingly, as a condition of permission to bid, a certification must be completed and submitted with the bid. A bid which does not include certification may not be considered.

20. DBE TRANSIT VEHICLE MANUFACTURER CERTIFICATION

El Dorado National - KS. (Name of Manufacturer), a TVM, 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 2016 (October 1, 2015 to September 30, 2016) and have been approved or not disapproved by FTA. _____ (Name of Contract Vendor), hereby certifies that the manufacturer of the transit vehicle to be supplied _____ (Name of Manufacturer) has complied with the above referenced requirement of Section 26.49 of 49 CFR Part 26.

Signature: Darin Hendricks

Date: 2-3-2016

Title: Sales Coordinator

Manufacturer: El Dorado National - KS

21. INCORPORATION OF FEDERAL TRANSIT ADMINISTRATION (FTA) TERMS

FTA Circular 4220.1F

The preceding provisions include, in part, certain Standard Terms and Conditions required by U.S. DOT, whether or not expressly set forth in the preceding contract provisions. All contractual provisions required by U.S. DOT, as set forth 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 **State of Michigan** requests which would cause **State of Michigan** to be in violation of the FTA terms and conditions.

ElDorado National

TRANSIT VEHICLE MANUFACTURER (TVM) CERTIFICATION OF COMPLIANCE WITH SUBPART D, PART 26

This procurement is subject to the provisions of Section 26.49 of 49 CFR Part 26. Accordingly, as a condition of permission to bid, the following certification must be completed and submitted with the bid. A bid which does not include the certification will not be considered.

TRANSIT VEHICLE MANUFACTURER CERTIFICATION

ElDorado National, a TVM, hereby certifies that it has complied with the requirements of Section 26.49 of 49 CFR Part 26 by submitting a current annual DBE Goal to FTA. The goals apply to fiscal year 2016 (October 1, 2015 to September 30, 2016) and have been approved or not disapproved by FTA.

(Name of Firm)

_____, hereby certifies that the manufacturer of the transit vehicle to be supplied _____ *(Name of Manufacturer)* has complied with the above referenced requirement of Section 26.49 of 49 CFR Part 26.

(Name of Firm)

Signature: Darin Harding Date: 2-3-2016

Title: Sales Coordinator

Firm: ElDorado National

Telephone No: (785) 827-1033 Fax No: (785) 823-9471

Federally Required Contract Clauses (Rolling Stock)

Governing Documents

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INSTRUCTIONS

About: This document contains the federally required contract clauses for a rolling stock procurement greater than $100,000.

Vendor Instructions: Return copies of these pages with your bids. Fill in parts 1, 5, 6, 7, and 20.

1. BUY AMERICA REQUIREMENTS

The contractor agrees to comply with 49 U.S.C. 5323(j) and 49 C.F.R. Part 661, which provide 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 C.F.R. 661.7, and include microcomputer equipment and software. Separate requirements for rolling stock are set out at 49 U.S.C. 5323(j)(2)(C) and 49 C.F.R. 661.11. Rolling stock must be assembled in the United States and have a 60 percent domestic content.

A bidder or offeror must submit to the FTA recipient the appropriate Buy America certification (below) with all bids or offers on FTA-funded contracts, except those subject to a general waiver. Bids or offers that are not accompanied by a completed Buy America certification must be rejected as nonresponsive. This requirement does not apply to lower tier subcontractors.

Certification requirement for procurement of steel, iron, or manufactured products.

Certificate of Compliance with 49 U.S.C. 5323(j)(1)
The bidder or offeror hereby certifies that it will meet the requirements of 49 U.S.C. 5323(j)(1) and the applicable regulations in 49 C.F.R. Part 661.5.

Date 2/8/10

Signature Andrew Sell

Company Name Goshen Coach, INC.

Title Inside Sales Manager

Certificate of Non-Compliance with 49 U.S.C. 5323(j)(1)
The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. 5323(j)(1) and 49 C.F.R. 661.5, but it may qualify for an exception pursuant to 49 U.S.C. 5323(j)(2)(A), 5323(j)(2)(B), or 5323(j)(2)(D), and 49 C.F.R. 661.7.

Date _____

Signature _____

Company Name _____

Title _____

Certification requirement for procurement of buses, other rolling stock and associated equipment.

Certificate of Compliance with 49 U.S.C. 5323(j)(2)(C).
The bidder or offeror hereby certifies that it will comply with the requirements of 49 U.S.C. 5323(j)(2)(C) and the regulations at 49 C.F.R. Part 661.11.

Date 2/8/16

Signature Andrew Snell

Company Name Goshen Coach, INC.

Title 2/8/16

Certificate of Non-Compliance with 49 U.S.C. 5323(j)(2)(C)
The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. 5323(j)(2)(C) and 49 C.F.R. 661.11, but may qualify for an exception pursuant to 49 U.S.C. 5323(j)(2)(A), 5323(j)(2)(B), or 5323(j)(2)(D), and 49 CFR 661.7.

Date _____

Signature _____

Company Name _____

Title _____

2. CARGO PREFERENCE REQUIREMENTS 46 U.S.C. 1241/46 CFR Part 381

Use of United States-Flag Vessels - The contractor agrees:

a. to use privately owned United States-Flag commercial vessels to ship at least 50 percent 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 United States-Flag commercial vessels;
b. to furnish within 20 working days following the date of loading for shipments originating within the United States or within 30 working days following the date of leading for shipments originating outside the United States, a legible copy of a rated, "on-board" commercial ocean bill-of -lading in English for each shipment of cargo described in the preceding paragraph to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590 and to the FTA recipient (through the contractor in the case of a subcontractor's bill-of-lading.)
c. to include these requirements in all subcontracts issued pursuant to this contract when the subcontract may involve the transport of equipment, material, or commodities by ocean vessel.

3. ENERGY CONSERVATION REQUIREMENTS 42 U.S.C. 6321 et seq./49 CFR Part 18

The contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

4. CLEAN WATER REQUIREMENTS 33 U.S.C. 1251

(1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq. The Contractor agrees to report each violation to the Purchaser and understands and agrees that the Purchaser will, in turn, report each violation as required to assure notification to FTA and the appropriate EPA Regional Office.
(2) The Contractor also agrees to include these requirements in each subcontract exceeding $100,000 financed in whole or in part with Federal assistance provided by FTA.

5. BUS TESTING 49 U.S.C. 5323(c)/49 CFR Part 665

The Contractor [Manufacturer] agrees to comply with 49 U.S.C. A 5323(c) and FTA's implementing regulation at 49 CFR Part 665 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 at a point in the procurement process specified by the recipient which will be prior to the recipient's final acceptance of the first vehicle.
2) A manufacturer who releases a report under paragraph 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 recipient's final acceptance of the first vehicle. If the 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 United States before October 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.

Date: 2/8/16

Signature: Andrew Snell

Company Name: Goshen Coach, INC.

Title: Inside Sales Manager

6. PRE-AWARD AND POST DELIVERY AUDITS REQUIREMENTS 49 U.S.C. 5323/49 CFR Part 663

The Contractor agrees to comply with 49 U.S.C. § 5323(l) 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.

BUY AMERICA CERTIFICATE OF COMPLIANCE WITH FTA REQUIREMENTS FOR BUSES, OTHER ROLLING STOCK, OR ASSOCIATED EQUIPMENT

(To be submitted with a bid or offer exceeding the small purchase threshold for Federal assistance programs, currently set at $100,000.)

Certificate of Compliance

The bidder hereby certifies that it will comply with the requirements of 49 U.S.C. Section 5323(j)(2)(C), Section 165(b)(3) of the Surface Transportation Assistance Act of 1982, as amended, and the regulations of 49 C.F.R. 661.11:

Date: 2/8/16

Signature: Andrew Snell

Company Name: Goshen Coach, INC.

Title: Inside Sales Manager

Certificate of Non-Compliance

The bidder hereby certifies that it cannot comply with the requirements of 49 U.S.C. Section 5323(j)(2)(C) and Section 165(b)(3) of the Surface Transportation Assistance Act of 1982, as amended, but may qualify for an exception to the requirements consistent with 49 U.S.C. Sections 5323(j)(2)(B) or (j)(2)(D), Sections 165(b)(2) or (b)(4) of the Surface Transportation Assistance Act, as amended, and regulations in 49 C.F.R. 661.7.

Date: _____

Signature: _____

Company Name: _____

Title: _____

7. LOBBYING 31 U.S.C. 1352/49 CFR Part 19/49 CFR Part 20

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 $100,000 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.

APPENDIX A, 49 CFR PART 20--CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

(To be submitted with each bid or offer exceeding $100,000)

The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*)]

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

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.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such expenditure or failure.]

The Contractor, Goshen Coach, INC., certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.,* apply to this certification and disclosure, if any.

Andrew Snell Signature of Contractor's Authorized Official

Andrew Snell / Inside Sales Manager Name and Title of Contractor's Authorized Official

2/8/16 Date

8. ACCESS TO RECORDS AND REPORTS 49 U.S.C. 5325/18 CFR 18.36 (i)/49 CFR 633.17

The following access to records requirements apply to this Contract:

1. Where the Purchaser is not a State but a local government and is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C.F.R. 18.36(i), the Contractor agrees to provide the Purchaser, the FTA Administrator, the Comptroller General of the United States or any of their authorized representatives access to any books, documents, papers and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts and transcriptions. Contractor also agrees, pursuant to 49 C.F.R. 633.17 to provide the FTA Administrator or his authorized representatives including any PMO Contractor access to Contractor's records and construction sites pertaining to a major capital project, defined at 49 U.S.C. 5302(a)1, which is receiving federal financial assistance through the programs described at 49 U.S.C. 5307, 5309 or 5311.

2. Where the Purchaser is a State and is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C.F.R. 633.17, Contractor agrees to provide the Purchaser, the FTA Administrator or his authorized representatives, including any PMO Contractor, access to the Contractor's records and construction sites pertaining to a major capital project, defined at 49 U.S.C. 5302(a)1, which is receiving federal financial assistance through the programs described at 49 U.S.C. 5307, 5309 or 5311. By definition, a major capital project excludes contracts of less than the simplified acquisition threshold currently set at $100,000.

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 the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C.F.R. 19.48, Contractor agrees to provide the Purchaser, FTA Administrator, the Comptroller General of the United States or any of their duly authorized representatives with 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 any Purchaser which is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 U.S.C. 5325(a) enters into a contract for a capital project or improvement (defined at 49 U.S.C. 5302(a)1) through other than competitive bidding, the Contractor shall make available records related to the contract to the Purchaser, the Secretary of Transportation and the Comptroller General or any authorized officer or employee of any of them for the purposes of conducting an audit and inspection.

5. The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

6. The Contractor agrees to maintain all books, records, accounts and reports required under this contract for a period of not less than three 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 Purchaser, the FTA Administrator, the Comptroller General, or any of their duly authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto. Reference 49 CFR 18.39(i)(11).

7. FTA does not require the inclusion of these requirements in subcontracts.

Requirements for Access to Records and Reports by Types of Contract

Contract Characteristics		Operational Service Contract	Turnkey	Construction	Architectural Engineering	Acquisition of Rolling Stock	Professional Services
I State Grantees a. Contracts below SAT ($100,000) b. Contracts above $100,000/Capital Projects		None None unless[1] non-competitive award	Those imposed on state pass thru to Contractor	None Yes, if non-competitive award or if funded thru[2] 5307/5309/5311	None None unless non-competitive award	None None unless non-competitive award	None None unless non-competitive award
II Non State Grantees a. Contracts below SAT ($100,000) b. Contracts above $100,000/Capital Projects		Yes[3] Yes[3]	Those imposed on non-state Grantee pass thru to Contractor	Yes Yes	Yes Yes	Yes Yes	Yes Yes

Sources of Authority:
[1] 49 USC 5325 (a)
[2] 49 CFR 633.17
[3] 18 CFR 18.36 (i)

9. FEDERAL CHANGES 49 CFR Part 18

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

10. CLEAN AIR 42 U.S.C. 7401 et seq/40 CFR 15.61/49 CFR Part 18

(1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. §§ 7401 et seq. The Contractor agrees to report each violation to the Purchaser and understands and agrees that the Purchaser will, in turn, report each violation as required to assure notification to FTA and the appropriate EPA Regional Office.

(2) The Contractor also agrees to include these requirements in each subcontract exceeding $100,000 financed in whole or in part with Federal assistance provided by FTA.

11. RECYCLED PRODUCTS 42 U.S.C. 6962/40 CFR Part 247/Executive Order 12873

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.

12. NO GOVERNMENT OBLIGATION TO THIRD PARTIES

No Obligation by the Federal Government.

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

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

13. PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS AND RELATED ACTS

31 U.S.C. 3801 et seq. /49 CFR Part 31 18 U.S.C. 1001/49 U.S.C. 5307

(1) The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. § 3801 et seq. and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 C.F.R. Part 31, apply to its actions pertaining to this Project. Upon execution of the underlying contract, the 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 the FTA assisted project for which this contract work is being performed. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the Federal Government deems appropriate.

(2) The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance originally awarded by FTA under the authority of 49 U.S.C. § 5307, the Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5307(n)(1) on the Contractor, to the extent the Federal Government deems appropriate.

(3) The Contractor agrees to include the above two clauses in each subcontract financed in whole or in part with Federal assistance provided by FTA. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

14. TERMINATION 49 U.S.C. Part 18/FTA Circular 4220.1F

a. Termination for Convenience (General Provision) The (Recipient) may terminate this contract, in whole or in part, at any time by written notice to the Contractor when it is in the Government's best interest. The Contractor shall be paid its costs, including contract close-out costs, and profit on work performed up to the time of termination. The Contractor shall promptly submit its termination claim to (Recipient) to be paid the Contractor. If the Contractor has any property in its possession belonging to the (Recipient), the Contractor will account for the same, and dispose of it in the manner the (Recipient) directs.

b. Termination for Default [Breach or Cause] (General Provision) If the Contractor does not deliver supplies in accordance with the contract delivery schedule, or, if the contract is for services, the Contractor fails to perform in the manner called for in the contract, or if the 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 on the contractor setting forth the manner in which the Contractor is in default. The contractor will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract.
If it is later determined by the (Recipient) that the 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 the Contractor, the (Recipient), after setting up a new delivery of performance schedule, may allow the Contractor to continue work, or treat the termination as a termination for convenience.

c. Opportunity to Cure (General Provision) The (Recipient) in its sole discretion may, in the case of a termination for breach or default, allow the Contractor [an appropriately short period of time] in which to cure the defect. In such case, the notice of termination will state the time period in which cure is permitted and other appropriate conditions

If Contractor fails to remedy to (Recipient)'s satisfaction the breach or default of any of the terms, covenants, or conditions of this Contract within [ten (10) days] after receipt by Contractor of written notice from (Recipient) setting forth the nature of said breach or default, (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 (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 (Recipient) elects to waive its remedies for any breach by Contractor of any covenant, term or condition of this Contract, such waiver by (Recipient) shall not limit (Recipient)'s 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 Government's interest. If this 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.

f. Termination for Default (Supplies and Service) If the Contractor fails to deliver supplies or to perform 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 the Contractor a Notice of Termination specifying the nature of the default. The Contractor will 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 the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the Recipient.

g. Termination for Default (Transportation Services) If the 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 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 the Contractor a Notice of Termination specifying the nature of default. The Contractor will 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 the Contractor has possession of Recipient goods, the Contractor shall, upon direction of the (Recipient), protect and preserve the goods until surrendered to the Recipient or its agent. The Contractor and (Recipient) shall agree on payment for the preservation and protection of goods. Failure to agree on an amount will be resolved under the Dispute clause.

If, after termination for failure to fulfill contract obligations, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the (Recipient).

h. Termination for Default (Construction) If the Contractor refuses or fails to prosecute the work or any separable part, with the diligence that will insure its completion within the time specified in this contract or any extension or fails to complete the work within this time, 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 the

Contractor a Notice of Termination specifying the nature of the 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. The Contractor and its sureties shall be liable for any damage to the Recipient resulting from the Contractor's refusal or failure to complete the work within specified time, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the Recipient in completing the work.

The Contractor's right to proceed shall not be terminated nor the Contractor charged with damages under this clause if-

1. the delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the 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

2. the contractor, within [10] days from the beginning of any delay, notifies the (Recipient) in writing of the causes of delay. If in the judgment of the (Recipient), the delay is excusable, the time for completing the work shall be extended. The judgment of the (Recipient) shall be final and conclusive on the parties, but subject to appeal under the Disputes clauses.
    a. If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination had been issued for the convenience of the Recipient.

i. Termination for Convenience or Default (Architect and Engineering) The (Recipient) may terminate this contract in whole or in part, for the Recipient's convenience or because of the failure of the Contractor to fulfill the contract obligations. The (Recipient) shall terminate by delivering to the Contractor a Notice of Termination specifying the nature, extent, and effective date of the termination. Upon receipt of the notice, the Contractor shall (1) immediately discontinue all services affected (unless the notice directs otherwise), and (2) deliver to the Contracting Officer all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated in performing this contract, whether completed or in process.

If the termination is for the convenience of the Recipient, the Contracting Officer shall make an equitable adjustment in the contract price but shall allow no anticipated profit on unperformed services.

If the termination is for failure of the Contractor to fulfill the contract obligations, the Recipient may complete the work by contact or otherwise and the 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 the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the Recipient.

j. Termination for Convenience of Default (Cost-Type Contracts) The (Recipient) may terminate this contract, or any portion of it, by serving a notice or termination on the Contractor. The notice shall state whether the termination is for convenience of the (Recipient) or for the default of the Contractor. If the termination is for default, the notice shall state the manner in which the contractor has failed to perform the requirements of the contract. The Contractor shall account for any property in its possession paid for from funds received from the (Recipient), or property supplied to the Contractor by the (Recipient). If the termination is for default, the (Recipient) may fix the fee, if the contract provides for a fee, to be paid the contractor in proportion to the value, if any, of work performed up to the time of termination. The Contractor shall promptly submit its termination claim to the (Recipient) and the parties shall negotiate the termination settlement to be paid the Contractor.

If the termination is for the convenience of the (Recipient), the Contractor shall be paid its contract close-out 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 the 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 the contractor, the (Recipient), after setting up a new work schedule, may allow the Contractor to continue work, or treat the termination as a termination for convenience.

15. GOVERNMENT-WIDE DEBARMENT AND SUSPENSION (NONPROCUREMENT)
49 CFR Part 29/Excutive Order 12549/Exectuve Order 12689/31 U.S.C. 6101 note (Section 2455, Public Law 103-355, 108 Stat. 3327)

Suspension and Debarment

This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the contractor is required to verify that none of the contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945.

The contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into.

By signing and submitting its bid or proposal, the bidder or proposer certifies as follows:

The certification in this clause is a material representation of fact relied upon by the **State of Michigan**. If it is later determined that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to **State of Michigan**, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder or proposer agrees to comply with the requirements of 49 CFR 29, Subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

16. PRIVACY ACT REQUIREMENTS 5 U.S.C. 552

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.

17. CIVIL RIGHTS REQUIREMENTS 29 U.S.C. § 623, 42 U.S.C. § 2000/42 U.S.C. § 6102, 42 U.S.C. § 12112/42 U.S.C. § 12132, 49 U.S.C. § 5332/29 CFR Part 1630/41 CFR Parts 60 et seq.

The following requirements apply to the underlying contract:

(1) Nondiscrimination - In accordance with Title VI of the Civil Rights Act, as amended, 42 U.S.C. § 2000d, section 303 of the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6102, section 202 of the Americans with Disabilities Act of 1990, 42 U.S.C. § 12132, and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, or disability. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.

(2) Equal Employment Opportunity - The following equal employment opportunity requirements apply to the underlying contract:

(a) Race, Color, Creed, National Origin, Sex - In accordance with Title VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e, and Federal transit laws at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 C.F.R. Parts 60 et seq., (which implement Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," 42 U.S.C. § 2000e note), and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may in the future affect construction activities undertaken in the course of the Project. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(b) Age - In accordance with section 4 of the Age Discrimination in Employment Act of 1967, as amended, 29 U.S.C. § § 623 and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(c) Disabilities - In accordance with section 102 of the Americans with Disabilities Act, as amended, 42 U.S.C. § 12112, the Contractor agrees that it will comply with the requirements of

U.S. Equal Employment Opportunity Commission, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 C.F.R. Part 1630, pertaining to employment of persons with disabilities. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(3) The Contractor also agrees to include these requirements in each subcontract financed in whole or in part with Federal assistance provided by FTA, modified only if necessary to identify the affected parties.

18. BREACHES AND DISPUTE RESOLUTION 49 CFR Part 18/FTA Circular 4220.1F

Disputes - Disputes arising in the performance of this Contract which are not resolved by agreement of the parties shall be decided in writing by the authorized representative of (Recipient)'s [title of employee]. This decision shall be final and conclusive unless within [ten (10)] days from the date of receipt of its copy, the Contractor mails or otherwise furnishes a written appeal to the [title of employee]. In connection with any such appeal, the Contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position. The decision of the [title of employee] shall be binding upon the Contractor and the Contractor shall abide be the decision.

Performance During Dispute - Unless otherwise directed by (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 therefor shall be made in writing to such other party within a reasonable time after the first observance of such injury of damage.

Remedies - Unless this contract provides otherwise, all claims, counterclaims, disputes and other matters in question between the (Recipient) and the 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 State in which the (Recipient) is located.

Rights and Remedies - The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by the (Recipient), (Architect) 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 thereunder, except as may be specifically agreed in writing.

19. DISADVANTAGED BUSINESS ENTERPRISE (DBE) 49 CFR Part 26

a. The contractor shall not discriminate on the basis of race, color, 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 U.S. DOT-assisted 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 **State of Michigan** deems appropriate. Each subcontract the contractor signs with a subcontractor must include the assurance in this paragraph (*see* 49 CFR 26.13(b)).

b. 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.* Each subcontract the contractor signs with a subcontractor must include the assurance in this paragraph (*see* 49 CFR 26.13(b)). Accordingly, as a condition of permission to bid, a certification must be completed and submitted with the bid. A bid which does not include certification may not be considered.

20. DBE TRANSIT VEHICLE MANUFACTURER CERTIFICATION

Goshen Coach, INC. (Name of Manufacturer), a TVM, 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 2016 (October 1, 2015 to September 30, 2016) and have been approved or not disapproved by FTA. Hoekstra Transportation, INC. (Name of Contract Vendor), hereby certifies that the manufacturer of the transit vehicle to be supplied Goshen Coach, INC. (Name of Manufacturer) has complied with the above referenced requirement of Section 26.49 of 49 CFR Part 26.

Signature: Andrew Snell

Date: 2/8/14

Title: Inside Sales Manager

Manufacturer: Goshen Coach, INC.

21. INCORPORATION OF FEDERAL TRANSIT ADMINISTRATION (FTA) TERMS

FTA Circular 4220.1F

The preceding provisions include, in part, certain Standard Terms and Conditions required by U.S. DOT, whether or not expressly set forth in the preceding contract provisions. All contractual provisions required by U.S. DOT, as set forth 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 **State of Michigan** requests which would cause **State of Michigan** to be in violation of the FTA terms and conditions.

Schedule "D" – Affidavit For Driver Delivery

MEDIUM NON-LIFT AND LIFT TRANSIT BUSES

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

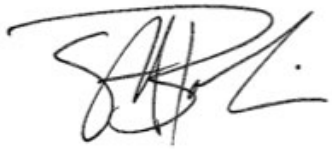
1. The drivers of the vehicles are correctly licensed and trained in proper vehicle operation.

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.



_____ _____1-18-16_____

Signed Date

Commercial Products Manager

_____

Title

Hoekstra Transportation

_____

Contractor

STATE OF MICHIGAN

Contract No. 071B6600071

Medium Class of Non-Lift and Lift Transit Buses

SCHEDULE "E" (COMPOSITE BODY)
EQUIPMENT CHECKLIST

I	BODY SPECIFICATIONS			
		Item	**Product Name and Model**	**Size, Material, and/or Type**
A.		General design and construction		
B.	1.	Body structure and exterior panels	**Eldorado Aero Elite 26-32' model body**	**Fiberglass reinforced plastic body integrated with steel reinforced construction for secure attachment points.**
	2.	Rollover frame, steel cage type	**N/A**	**N/A**
	3.	Body section thickness	**N/A**	**N/A**
	4.	Rollover frame, fiberglass composite	**Eldorado Aero Elite**	**Interlocked resin saturated fiberglass mattin and mechanical fasteners, forming a unibody design. Matrix of fiberglass reinforced plastic with an inner thickness of Nidacor resin-hardened honeycomb material. Also includes Nidacore (plastic honeycomb) around all opeinings (i.e. windows, roof hatches etc.)**
	5.	Body section thickness	**Eldorado Aero Elite**	**Exterior surface: 020" minimum high gloss gelcoat backed by 3/16" minimum thickness resin-hardened fiberglass reinforced plastic. The center composite is 3/4" resin-hardened matrix of honeycomb and nidacore laid on edge for maximum column strength of each cell. Steel sections are fully integrated into wall and roof structure to insure additional structural integrity and attachement points for stanchions and handrails. Final surface is a minimum 3/16" thickness of fiberglass reinforced plastic**
	6.	Exterior panels	**ENC Body**	**See 5 for description**
	7.	Interior panels	**ENC Body**	**FRP as specified**
	8.	Interior length	**ENC Body**	**Varies based on model ordered**
	9.	Interior width	**ENC Body**	**90.5"**
	10.	Interior height	**ENC Body**	**79"**
	11.	Exterior length	**ENC Body**	**26'8" – 31'8" depending on model ordered**
	12.	Exterior width	**ENC Body**	**96"**
	13.	Exterior height	**ENC Body**	**124.5" excluding roof options**
	14.	Rubrails	**ENC Body**	**2" rubber in plastic molding**
	15.	Body overhang	**ENC Body**	**98" – 135" depending on model ordered**
C.	1.	Passenger door	**A & M**	**36" electronically operated**
	2.	Opening Size	**A & M**	**32" clear opening**
D.		Stepwell	**ENC Body**	**14 gauge stainless steel**
E.		Interior – Color	**ENC Body**	**OEM White**
F.		Flooring	**ENC Body**	**Subfloor - Marine grade plywood, undercoated before and after installation onto steel floor structure. Anti-slip floor covering as specified.**
G.		Emergency exits	**ENC Body**	**SMI/Transpec Roof Hatch, Pushout Egress Windows, Rear Door or Window as specified**
H.		Gauges	**Navistar or Ford**	**OEM gauges include all per specification**
I.		Fare box	**Diamond**	**Diamond NV farebox with extra vault and keyed alike**

J.		Bumpers	**SMI/Transpec Corp.**	**OEM front and SMI energy absorbing bumper on rear as specified**
K.		Mud Flaps and Splash Guards	**ENC Body**	**Commercial grade anti sail with T brackets as specified – 6" approximate gap to ground**
L.		Towing	**ENC/OEM**	**ENC Rear tow hooks/OEM Front**
M.	1.	Undercoating	**Tectyl**	**Tectyl body and cab per specification**
	2.	Rustproofing	**Waxoyl**	**Waxoyl inside of steel tubing as specified**
N.	1.	Interior mirrors	**ENC**	**6 x 8 Interior mounted as specified at pilot**
	2.	Sun visors	**OEM Chassis**	**OEM**
O.		Exterior Mirrors	**Rosco**	**Heated Remote Rears per specification along with Cross Over mirror on front.**
P.	1.	Seats – Driver	**OEM**	**OEM Ford and Navistar Drivers Seats with arm rests as specified.**
	2.	Seats – Passenger	**Freedman**	**Various Freedman mid-back seats per floor plan requirements. All with required USR seatbelts, grab handles and seat covers where applicable.**
	3.	Seats – Fold-up	**Freedman**	**Featherweight folding**
	4.	Seats – Flip-up	**Freedman**	**Featherweight flip**
Q.		Handrails, stanchions	**ENC**	**Powder-coat Yellow where specified and brushed steel where specified.**
R.		Interior lighting – LED	**Various approved OEM**	**All LED as specified**
S.		Exterior lighting - LED	**Various approved OEM**	**All LED as specified**
T.	1.	Heating / ventilating – Front System	**OEM Chassis**	**As specified**
	2.	Heating / ventilating – Rear System	**ProAir**	**65K + 45Kbtu rear system heater**
U.		Windows	**Clear Vision and Heir Windows**	**T-Slider with tint as specified. Rear window when ordered with specified egress, red lights and alarms.**
V.		Paint	**Sikkens**	**Akzo-Noble**
W.		Insulation	**ENC**	**OEM construction meeting specification**
X.		Lift (platform type)	**Braun**	**1000lb. Century NCL919FIB – 2 Front Pump**
Y.		Alternate Lift Manufacturer	**Braun**	**Millennium and Vista Models and specified**

II	**WHEELCHAIR SECUREMENT AREA**					
		Item	**Product Name and Model**	**Size, Material, and/or Type**		
A.		Wheelchair securement	**Kinodyne "L" Style Tracking or optional Q'Straint Slide-N-Click Pucks**	**54" x 30" on 1st position as specified**		
B.		Wheelchair restraints	**Q'Straint**	**Q8100-A1-L with retractable shoulder harness or optional Slide-N-Click style as specified.**		
C.		Restraint storage system	**Q'Straint**	**Foldaway under seat attachment TDSS – Plus one storage bag as requested.**		
III	**CHASSIS SPECIFICATIONS**					
		Item	**Class 1 Product Name/Model**	**Class 1 Size, Material, and/or Type**	**Class 2 Product Name/Model**	**Class 2 Size, Material, and/or Type**
A.		Chassis	**Ford Motor Co.**	**F550**	**Navistar Int'l**	**TC Model Chassis**

B.		Tilt Wheel/Power Steering	**Ford Motor Co.**	**Tilt/Power Steering**	**Navistar Int'l**	**Tilt/Power Steering**
C.		Wheelbase(s)	**Ford Motor Co.**	**195-233" depending on model ordered.**	**Navistar Int'l**	**193"-217" depending on model ordered**
D.	1.	Engine - Diesel	**Ford Motor Co.**	**Powerstroke 6.7L Diesel OVL V8**	**Navistar Int'l**	**Cummins 6.7L ISB Diesel**
	2.	Auxiliary Coolant Heater	**Espar**	**Hydronic with 7 day timer**	**Espar**	**Hydronic with 7 day timer**
E.		Transmission	**Ford Motor Co.**	**TorqShift 6 speed Auto with OD**	**Allison**	**2000 Series as specified.**
F.		Alignment	**Eldorado Nat'l**	**Aligned prior to shipment to Michigan to ensure proper arrival after 800-mile journey. If preferred by the State this can be changed to alignment in Michigan. (not recommended)**	**Eldorado National**	**Aligned prior to shipment to Michigan to ensure proper arrival after 800-mile journey. If preferred by the State this can be changed to alignment in Michigan. (not recommended)**
G.	1.	Gross Vehicle Weight Rating (GVWR)	**Ford Motor Co.**	**19,500 lb.**	**Navistar Int'l**	**23,500 lb.**
	2.	Front axle rating	**Ford Motor Co.**	**7000 lb.**	**Meritor MFS-08-153B**	**I-Beam Type, 8,000-lb Capacity**
	3.	Rear axle rating	**Ford Motor Co.**	**14,000 lb.**	**Navistar Int'l**	**Single Reduction, 17,500-lb Capacity, With 190 Wheel Ends**
H.		Differential	**Ford Motor Co.**	**Gear Ratio 4.88**	**Navistar Int'l**	**Gear Ratio 4.33**
I.		Battery	**Ford Motor Co.**	**Motorcraft 750CCA dual – total 1500CCA**	**Navistar Int'l**	**Protective cover on terminals – no exposed copper as specified**
J.		Battery Cables and Grounds	**Ford Motor Co.**	**Protective cover on terminals – no exposed**	**Navistar Int'l**	**Protective cover on terminals – no**

				copper as specified		**exposed copper as specified**
K.		Alternator	**Ford Motor Co.**	**200 amp heavy duty alternator.**	**Leece-Neville**	**Brush Type; 12 Volt 220 Amp. Capacity, Pad Mount, Includes 1-Gauge Protected Charging Circuit**
L.		Engine Fast Idle	**Intermotive**	**ILLS gateway**	**Intermotive**	**ILLS gateway**
M.		Brakes	**Ford Motor Co.**	**4 wheel antilock disc - hydraulic**	**Bendix**	**AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)**
N.		Fuel tank	**Ford Motor Co.**	**40 gallon as specified**	**Navistar Int'l**	**40 gallon approved on 27' model. All others 65 gallon as specified**
O.		Hazard flashers	**Ford Motor Co.**	**OEM on steering column**	**Navistar Int'l**	**Push On/Push Off, Located on Top of Steering Column Cover**
P.		Shock absorbers	**Ford Motor Co.**	**OEM**	**Navistar Int'l**	**{International} Ride Optimized Suspension (IROS); 13,500-lb Capacity, 8.0" Ride Height, with Shock Absorbers**
Q.	1.	Suspension - Front	**Ford Motor Co.**	**Mono beam front suspension non-independent – front coil springs – anti sway – shock absorbers.**	**Navistar Int'l**	**SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 8,000-lb Capacity; With Shock Absorbers**

	2.	Suspension - Rear	**MorRyde**	**MorRyde rear suspension system as specified.**	**Navistar Int'l**	**{International} Ride Optimized Suspension (IROS); 15,500-lb Capacity, 9.25" Ride Height, With Shock Absorbers**
R.		Stabilizer	**Ford Motor Co.**	**OEM**	**Navistar Int'l**	**OEM**
S.		Wheels	**Ford Motor Co.**	**19.5 painted steel**	**Navistar Int'l**	**DISC; 19.5" Painted Steel, 5 Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 7.50 DC Rims; With Steel Hubs**
T.		Tires	**OEM Brand Varies**	**225/70Rx19.5**	**OEM Brand Varies**	**245/70R19.5 G647 RSS (GOODYEAR) 626 rev/mile, load range G, 14 ply**
U.		Spare Tire – Steer Axle	**OEM Brand Varies**	**225/70Rx19.5**	**OEM Brand Varies**	**245/70R19.5 G647 RSS (GOODYEAR) 626 rev/mile, load range G, 14 ply**
V.		Spare Tire – Drive Axle	**OEM Brand Varies**	**225/70Rx19.5**	**OEM Brand Varies**	**245/70R19.5 G647 RSS (GOODYEAR)**

						626 rev/mile, load range G, 14 ply
W.		Drive shaft	**Ford Motor Co.**	**With shaft guards as specified**	**Navistar Int'l**	**With shaft guards as specified**
X.		Wipers / Horn	**Ford Motor Co.**	**Variable intermittent wipers – dual horn - OEM**	**Navistar Int'l**	**HORN, ELECTRIC (2)**
Y.		Radiator and cooling system	**Ford Motor Co.**	**OEM as specified**	**Navistar Int'l**	**Aluminum; 2-Row, Cross Flow, Side-by-Side System, 697 SqIn Louvered, With 225 SqIn CAC, With In-Tank Oil Cooler**
Z.		Fluids	**Ford Motor Co.**	**As Specified**	**Navistar Int'l**	**As specified**
AA.		Engine Cover/Trim	**Ford Motor Co.**	**Engine is under hood and insulated by OEM**	**Navistar Int'l**	**CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator**
BB.		Exhaust system	**Ford Motor Co.**	**Exhaust per specification except where regulation prevents modification**	**Navistar Int'l**	**Exhaust per specification except where regulation prevents modification**

IV	**OTHER ITEMS**			
		Item	**Product Name and Model**	**Size, Material, and/or Type**
A.	1.	Safety – Fire extinguisher	**ENC OEM**	**5lb mounted vertically per specification**
	2.	Safety – Reflective triangles	**ENC OEM**	**Mounted per pilot**
	3.	Safety – Reverse alarm	**ECCO**	**Model 510SG located per specification**
	4.	Safety-Rear door alarm	**ENC**	**EP4 alarm**
	5.	Safety- Exterior height (clearance) decal	**ENC**	**As specified – located on dash**
	6.	Safety-Lift interlock system	**ILIS**	**ILIS Gateway**
	7.	Safety-Warning/engine shutdown system	**Chassis OEM**	**OEM system**
	8.	Safety-Headlight control	**Chassis OEM**	**OEM system**

	9.	Safety-Strobe light	**Grote – This is the same strobe approved and used on the past 4 MDOT bus contracts.**	**Mounted approx. 6' from rear of bus**
B.	1.	Lift circuit breaker	**Braun/ENC**	**Installed in battery box on units with battery boxes and under the hood on units with OEM battery mounting.**
	2.	12-volt power point	**Chassis OEM**	**Per specification**
	3.	Wire coding and harnesses	**ENC OEM**	**Complete plug and play harness, each harness is taged for function, each wire is color coded and stamped every 6 inches. Harness function tag stays on all harenesses if used or not.**
	4.	Electrical panel	**ENC OEM**	**EP4 electrical panel featuring advanced diagnostics and LED indicators.**
	5.	Wiring support	**ENC OEM**	**As specified in Electrical section. Loomed and grommets where required.**
	6.	Wiring grounds and capacity	**ENC OEM**	**Two main grounds to chassis frame at front and back of bus, all other ground go back to panel and are spread evenly on ground bar. As specified and approved.**
	7.	Constant run solenoid	**ENC OEM**	**As specified**
	8.	Circuit capacity & function	**ENC OEM**	**As specified**
	9.	Wiring protection	**ENC OEM**	**As specified**
	10.	Wiring routing	**ENC OEM**	**Routed along rails – loomed and supported per specification.**
	11.	Wiring connections	**ENC OEM**	**Plug and play with WeatherPak on exterior connections per specification.**
V	**EQUIPMENT OPTIONS**			
A.		Air Conditioning, Split unit	**ACT**	**ACT-5CR2HD, EZ-5 EVAP, CR-2 ROOFTOP COND, DUAL COMPRESSORS-70000 BTU & ACT-913HD, EZ-91 EVAP, CS-3 COND, DUAL COMPRESSORS-75000 BTU WITH BRUSHGUARDS –**

				Model depending on floor plan chosen
B.		Rooftop AC with heat	**ACT**	**RTS 75/21 with Heat & Brush guard**
C.	1.	Auxiliary Air Heater - Gas	**Espar**	**Airtronic D5 with 7 day timer**
	2.	Auxiliary Air Heater/Engine Block Heater (in lieu of aux. coolant heater).	**Espar**	**Airtronic D5 with 7 day timer – includes block heater**
D.	1.	Destination Sign – Roller/Curtain	**Transign**	**Transign Roller**
	2.	Destination Sign - LED	**Transign or Twin Vision**	**Twin Vision LED Mobilite or Transign Vista Star – Customer choice.**
E.		Donation box (in lieu of standard farebox – deduct)	**Diamond**	**Diamond D donation box mounted per specification**
F.		Farebox Electrical Prep Only (less standard farebox-deduct)	**ENC**	**ENC power prep for adding a farebox in the future.**
G.	1.	Limited Slip Differential (Class One)	**Ford Motor Co.**	**OEM Chassis**
	2.	Limited Slip Differential (Class Two)	**Navistar International**	**OEM Chassis**
H.		Rear emergency exit window	**Clear Vision/Heir**	**Rear egress window with alarm as specified.**
I.	1.	Paint - One stripe	**Akzo-Noble Sikkens**	**Per specification**
	2.	Paint - Roof second color	**Akzo-Noble Sikkens**	**Per specification**
	3.	Paint - Different Full body	**Akzo-Noble Sikkens**	**Per specification**
	4.	Reflective Vinyl Belt Stripe	**Hoekstra Transportation**	**Up to 11" belt stripe 10 year vinyl**
J.	1.	Lift – Type I (in lieu of standard lift)	**Braun**	**NCL919FIB-2 Century**
	2.	Lift – Type II – Powered outer barrier (in lieu of standard lift)	**Braun**	**NL919FIB-2 Millennium**
	3.	Lift - Folding Platform (in lieu of standard lift)	**Braun**	**NVL917FIB-2 Vista**
K.	1.	Wheelchair Single Point Securement System (in lieu of one standard L-Track position)	**Q'Straint**	**Q8100-SC-A1 Slide-N-Click.**
	2.	Additional Wheelchair Position – L Track System	**Q'Straint**	**Q8100-A1-L – same as base bus configuration**
	3.	Additional Wheelchair Position – Single Point System	**Q'Straint**	**Q8100-SC-A1 Slide-N-Click.**
L.		Two-way radio prep package	**ENC OEM**	**Prep package to include two access panels, ground planes and wiring per specification.**
M.	1.	Radio - AM/FM stereo system w/ four speakers	**OEM Chassis**	**OEM radio and antenna to be provided where available. Includes 4 speakers**
	2.	Public Address System Only w/ two speakers	**Jensen**	**Separate PA and Mic PA500 with speakers**
	3.	Radio - AM/FM/PA stereo system w/ four speakers	**Jensen**	**Where a PA is integrated the system will be Jensen. Includes speakers JDH3510**
	4.	Radio – Additional speaker	**ENC OEM**	**OEM**
N.		Rear Air Ride Suspension (Class One)	**MorRyde**	**Rear air ride suspension installed by MorRyde corp. as specified.**

O.		Rubber Flooring (in lieu of smooth/slip-resistant flooring)	**RCA**	**RCA Rubber flooring et al.**
P.		Entrance Stepwell Heater	**Lighthouse**	**Warm Welcome**
Q.		Electric Driveline Brake (Retarder)	**Thelma**	**Per specification**
R.	1.	Seats – Rear five place passenger	**Freedman Seating Co.**	**Mid-Back with USR belts except on middle seat, seat covers. No grab handles.**
	2.	Seats - Forward Facing Standard Double Seat	**Freedman Seating Co.**	**Mid-Back with USR belts, grab handles and seat covers**
	3.	Seats – Forward Facing Double Fold-A-Way	**Freedman Seating Co.**	**Mid-Back Featherweight Fold-a-away with USR belts, grab handles and seat covers**
	4.	Seats – Double Flip-Up	**Freedman Seating Co.**	**Freedman Double Handi-Flip with seatbelts, seat covers and grab handles.**
	5.	Seats- Double w/Single Integrated Child Seat (ICS)	**Freedman Seating Co.**	**ICS with companion seat - with USR belts, grab handles and seat covers**
	6.	Seats- Double w/Double Integrated Child Seat (ICS)	**Freedman Seating Co.**	**Double ICS with USR belts, grab handles and seat covers**
S.		Driver's Power Seat Base (Class One)	**USSC**	**G2E**
T.	1.	Alt Engine – Gas (Class One)	**Ford 6.8 L V10**	**6.8 L V10 Gas**
	2.	Alt Engine – Propane (Class One)	**Ford 6.8L with ROUSH conversion**	**Engine ordered with G98 alternative fuel prep package and then converted with ROUSH propane 65 Gallon LPG package.**
	3.	Alt Engine – CNG (Class One)	**Ford 6.8L with G.A.S. conversion**	**Engine ordered with G98 alternative fuel prep package and then converted to CNG by Green Alternative Systems.**
U.		Stop Request System	**Eldorado National**	**ENC System with pull chords and driver alert systems as specified.**
V.		Back-Up Sensor System	**Hawkeye**	**Integrated into bumper with driver system per specification.**
W.	1.	Video Surveillance – Two Camera System	**REI**	**4 CH HD400 DVR w/2 Cameras & 320GB Hard Drive**
	2.	Video Surveillance - Four Camera System	**REI**	**4 CH HD400 DVR w/4 Cameras & 320GB Hard Drive**
	3.	Video Surveillance - Six Camera System	**REI**	**8 CH HD800 DVR w/6 Camera & 500GB Hard Drive**
	4.	Video Surveillance - DVR System Upgrade	**REI**	**Upgrade from 320gb to 500gb Hard Drive**
	5.	Video Surveillance – Extra Interior Cameras	**REI**	**Same as system**
	6.	Video Surveillance – Extra Exterior Cameras	**REI**	**Same as system**

X.		Video Surveillance Preparation Package	**Body OEM Prep**	**Body OEM Prep Based on customers need.**

VI	**EXCEPTIONS - List all exceptions in the space below:**

No exceptions.

VII	**COMMENTS**

This Schedule is for two (2) Composite Body Class 1 & 2 Buses.

<u>Class I Ford F550</u>

1. The pricing includes the Ford Motor Co. GPC concession of $4000 for this fixed 2-year contract. The bid price also includes the Ford Motor Company Mobility Concession of $1000 mobility rebate on any Ford lift equipped bus.

STATE OF MICHIGAN

Contract No. 071B6600071

Medium Class of Non-Lift and Lift Transit Buses

SCHEDULE "E" (METAL BODY)
EQUIPMENT CHECKLIST

I	BODY SPECIFICATIONS			
		Item	**Product Name and Model**	**Size, Material, and/or Type**
A.		General design and construction	**Goshen G-Force**	**Full Steel Cage Construction - constructed in accordance with applicable FMVSS requirements, including FMVSS 220. The bus is approved as a minimum 7-year/200,000 mile bus in accordance with the guidelines for the Altoona Bus Testing Center.**
B.	1.	Body structure and exterior panels	**OEM Construction**	**Steel cage construction with FRP (fiber reinforced plastic) exterior sidewalls and one piece roof.**
	2.	Rollover frame, steel cage type	**OEM Construction**	**The sidewall structure is 1.5" thick made of 1" x 2" 16 gauge custom formed steel wall bows welded vertically on 19" ± 1" centers, with 1" x 1" 16 gauge steel tube running laterally at the top and bottom of the wall and at the window frames. Steel gussets are welded into the corners of the window frames for added support. Welded and bolted to floor. The steel sub-floor is a fixture-welded structure of minimum 4 13/16" high 11 GA steel G-channel cross-members and 1" x 3-1/2" 12 GA steel C-channel, treated for corrosion protection. Steel cage will be bolted to the floor as specified.**
	3.	Body section thickness	**OEM Construction**	**The sidewall structure is made of 1" x 2" 16 gauge custom formed steel. 3mm Seamless fiberglass reinforced plastic (FRP) panels vacuum laminated to the steel cage structure**
	4.	Rollover frame, fiberglass composite	**N/A**	**N/A**
	5.	Body section thickness	**OEM Construction**	**The sidewall structure is made of 1" x 2" 16 gauge custom formed steel. Seamless fiberglass reinforced plastic (FRP) panels vacuum laminated to the steel cage structure**
	6.	Exterior panels	**OEM Construction**	**3.0mm thick seamless fiberglass reinforced plastic (FRP) panels vacuum laminated to the steel cage structure**
	7.	Interior panels	**OEM Construction**	**FRP on composite backer.**
	8.	Interior length	**OEM Construction**	**Varies by floor plan (See submitted floor plans for dimensions)**
	9.	Interior width	**OEM Construction**	**91"**
	10.	Interior height	**OEM Construction**	**75"**
	11.	Exterior length	**OEM Construction**	**Varies by floor plan (See submitted floor plans for dimensions)**

	12.	Exterior width	**OEM Construction**	**96”**
	13.	Exterior height	**OEM Construction**	**120”**
	14.	Rubrails	**OEM Construction**	**1.5 inch wide black rubber x ½ inch thick**
	15.	Body overhang	**OEM Construction**	**Varies by model ordered but within industry standards.**
C.	1.	Passenger door	**A&M**	**36” Electrically operated per specification**
	2.	Opening Size	**A&M**	**32” clear door opening per specification**
D.		Stepwell	**OEM Construction**	**14 gauge stainless steel**
E.		Interior – Color	**OEM Construction**	**Light Gray**
F.		Flooring	**OEM Construction & Altro Corp.**	**Subfloor ¾” marine grade plywood, sealed including edges per specification. Flooring Altro as specified.**
G.		Emergency exits	**OEM Construction**	**Roof Hatch with EXTERIOR RELEASE per specification – Side and rear windows or door depending on model ordered.**
H.		Gauges	**OEM**	**Gauge clusters as specified**
I.		Fare box	**Diamond**	**Model NV with two vaults keyed alike per specification**
J.		Bumpers	**SMI**	**Front OEM – Rear SMI Help Bumper per specification**
K.		Mud Flaps and Splash Guards	**OEM Construction**	**Heavy duty with T bracket as specified including 6” height and 1” outside coverage specification.**
L.		Towing	**OEM Construction**	**Tow hooks as specified**
M.	1.	Undercoating	**Tectyl**	**121B**
	2.	Rustproofing	**OEM Construction**	**Tubing coating as specified**
N.	1.	Interior mirrors	**OEM Construction**	**6 x 8” convex**
	2.	Sun visors	**OEM**	**Chassis OEM Sun Visor**
O.		Exterior Mirrors	**Rosco / Valvac**	**Heated and remote mirrors as specified**
P.	1.	Seats – Driver	**Ford**	**OEM Ford Seat As Specified**
	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 Model**
Q.		Handrails, stanchions	**OEM Construction**	**1 ¼ OD Tubing – Brushed steel and powder coated yellow where specified.**
R.		Interior lighting – LED	**OEM Construction**	**All interior lights are LED as specified including drivers dome light. Also includes Emergency Exit LED marker lights. Per Specification**
S.		Exterior lighting - LED	**OEM Construction**	**All exterior lights are LED as specified including center mounted brake light and tag light. Lights to have 10” service loop to aid in replacement. Per specified.**
T.	1.	Heating / ventilating – Front System	**OEM Chassis**	**Chassis OEM heating and ventilating systems based on model ordered**
	2.	Heating / ventilating – Rear System	**ProAir**	**45K and 65K rear heaters**
U.		Windows	**Clearvision and Heir Windows**	**T-Top Slider Vented side windows – tinted as specified – Egress windows with latches on side of window frame as specified.**
V.		Paint	**OEM Construction**	**Standard OEM White as specified**

W.		Insulation	**OEM Construction**	**Vacuum sealed - 2 lb. high-density expanded polystyrene to provide an insulated body structure with an R-value of at least R-11**
X.		Lift (platform type)	**Braun Century**	**BRAUN CENTURY (SERIES 2) NCL954, 34" X 54" (1000 LB. CAPACITY)**
Y.		Alternate Lift Manufacturer	**Ricon**	**Titanium 1000 lb. lift**

II	**WHEELCHAIR SECUREMENT AREA**					
		Item	**Product Name and Model**	**Size, Material, and/or Type**		
A.		Wheelchair securement	**Q'Straint**	**Aluminum Flanged L Track 54" x 30" first position as specified. Optional Single Point Slide-N-Click Pucks**		
B.		Wheelchair restraints	**Q'Straint QRT Deluxe**	**Q8100-A1-L with retractable shoulder harnesses as specified.**		
C.		Restraint storage system	**Freedman Q'Straint TDSS**	**Under seat mounted L track or Slide-N-Click style storage + Storage bag as specified.**		
III	**CHASSIS SPECIFICATIONS**					
		Item	**Class 1 Product Name/Model**	**Class 1 Size, Material, and/or Type**	**Class 2 Product Name/Model**	**Class 2 Size, Material, and/or Type**
A.		Chassis	**Ford Motor Co.**	**F550**	**N/A**	**N/A**
B.		Tilt Wheel/Power Steering	**Ford Motor Co.**	**Tilt/Power Steering**	**N/A**	**N/A**
C.		Wheelbase(s)	**Ford Motor Co.**	**195-233" depending on model ordered.**	**N/A**	**N/A**
D.	1.	Engine - Diesel	**Ford Motor Co.**	**Powerstroke 6.7L Diesel OVL V8**	**N/A**	**N/A**
	2.	Auxiliary Coolant Heater	**Espar**	**Hydronic with 7 day timer**	**N/A**	**N/A**
E.		Transmission	**Ford Motor Co.**	**TorqShift 6 speed Auto with OD**	**N/A**	**N/A**
F.		Alignment	**Body OEM**	**Aligned prior to shipment to Michigan to ensure proper**	**N/A**	**N/A**

				arrival after 800-mile journey. If preferred by the State this can be changed to alignment in Michigan. (not recommended)		
G.	1.	Gross Vehicle Weight Rating (GVWR)	**Ford Motor Co.**	**19,500 lb.**	**N/A**	**N/A**
	2.	Front axle rating	**Ford Motor Co.**	**7000 lb.**	**N/A**	**N/A**
	3.	Rear axle rating	**Ford Motor Co.**	**14,000 lb.**	**N/A**	**N/A**
H.		Differential	**Ford Motor Co.**	**Gear Ratio 4.88**	**N/A**	**N/A**
I.		Battery	**Ford Motor Co.**	**Motorcraft 750CCA dual – total 1500CCA**	**N/A**	**N/A**
J.		Battery Cables and Grounds	**Ford Motor Co.**	**Protective cover on terminals – no exposed copper as specified**	**N/A**	**N/A**
K.		Alternator	**Ford Motor Co.**	**200 amp heavy duty alternator.**	**N/A**	**N/A**
L.		Engine Fast Idle	**Intermotive**	**ILLS gateway**	**N/A**	**N/A**
M.		Brakes	**Ford Motor Co.**	**4 wheel antilock disc - hydraulic**	**N/A**	**N/A**
N.		Fuel tank	**Ford Motor Co.**	**40 gallon as specified**	**N/A**	**N/A**
O.		Hazard flashers	**Ford Motor Co.**	**OEM on steering column**	**N/A**	**N/A**
P.		Shock absorbers	**Ford Motor Co.**	**OEM**	**N/A**	**N/A**
Q.	1.	Suspension - Front	**Ford Motor Co.**	**Mono beam front suspension non-independent – front coil springs – anti sway – shock absorbers.**	**N/A**	**N/A**
	2.	Suspension - Rear	**MorRyde**	**MorRyde rear suspension system as specified.**	**N/A**	**N/A**
R.		Stabilizer	**Ford Motor Co.**	**OEM**	**N/A**	**N/A**
S.		Wheels	**Ford Motor Co.**	**19.5 painted steel**	**N/A**	**N/A**
T.		Tires	**OEM Brand Varies**	**225/70Rx19.5**	**N/A**	**N/A**
U.		Spare Tire – Steer Axle	**OEM Brand Varies**	**225/70Rx19.5**	**N/A**	**N/A**
V.		Spare Tire – Drive Axle	**OEM Brand Varies**	**225/70Rx19.5**	**N/A**	**N/A**
W.		Drive shaft	**Ford Motor Co.**	**With shaft guards as specified**	**N/A**	**N/A**
X.		Wipers / Horn	**Ford Motor Co.**	**Variable intermittent wipers – dual horn - OEM**	**N/A**	**N/A**
Y.		Radiator and cooling system	**Ford Motor Co.**	**OEM as specified**	**N/A**	**N/A**

Z.		Fluids	**Ford Motor Co.**	**As Specified**	**N/A**	**N/A**
AA.		Engine Cover/Trim	**Ford Motor Co.**	**Engine is under hood and insulated by OEM**	**N/A**	**N/A**
BB.		Exhaust system	**Ford Motor Co.**	**Exhaust per specification except where regulation prevents modification**	**N/A**	**N/A**

IV	**OTHER ITEMS**			
		Item	**Product Name and Model**	**Size, Material, and/or Type**
A.		Safety – Fire extinguisher	**Body OEM**	**5lb mounted vertically per specification**
		Safety – Reflective triangles	**Body OEM**	**Mounted per pilot**
		Safety – Reverse alarm	**ECCO**	**Model 510SG located per specification**
		Safety-Rear door alarm	**Body OEM**	**As specified**
		Safety- Exterior height (clearance) decal	**Body OEM**	**As specified – located on dash**
		Safety-Lift interlock system	**ILIS**	**ILIS Gateway**
		Safety-Warning/engine shutdown system	**Chassis OEM**	**OEM system**
		Safety-Headlight control	**Chassis OEM**	**OEM system**
		Safety-Strobe light	**Body OEM**	**Mounted approx. 6' from rear of bus**
B.		Lift circuit breaker	**Braun**	**Installed in battery box on units with battery boxes and under the hood on units with OEM battery mounting.**
		12-volt power point	**Chassis OEM**	**Per specification**
		Wire coding and harnesses	**Body OEM**	**Complete plug and play harness, each harness is taged for function, each wire is color coded and stamped every 6 inches. Harness function tag stays on all harenesses if used or not.**
		Electrical panel	**Body OEM**	**Electrical panel featuring advanced diagnostics and LED indicators.**
		Wiring support	**Body OEM**	**As specified in Electrical section. Loomed and grommets where required.**
		Wiring grounds and capacity	**Body OEM**	**Two main grounds to chassis frame at front and back of bus, all**

				other ground go back to panel and are spread evenly on ground bar. As specified and approved.
		Constant run solenoid	**OEM**	**As specified**
		Circuit capacity & function	**OEM**	**As specified**
		Wiring protection	**OEM**	**As specified**
		Wiring routing	**OEM**	**Routed along rails – loomed and supported per specification.**
		Wiring connections	**OEM**	**Plug and play with WeatherPak on exterior connections per specification.**
V	**EQUIPMENT OPTIONS**			
A.		Air Conditioning, Split unit	**ACT**	**ACT-5CR2HD, EZ-5 EVAP, CR-2 ROOFTOP COND, DUAL COMPRESSORS-70000 BTU & ACT-913HD, EZ-91 EVAP, CS-3 COND, DUAL COMPRESSORS-75000 BTU WITH BRUSHGUARDS – Model depending on floor plan chosen.**
B.		Rooftop AC with heat	**ACT**	**RTS 75/21 with Heat & Brush guard**
C.		Auxiliary Air Heater - Gas	**Espar**	**Airtronic with 7 day timer**
		Auxiliary Air Heater/Engine Block Heater (in lieu of aux. coolant heater).	**Espar**	**Airtronic with 7 day timer**
D.		Destination Sign – Roller/Curtain	**Transign**	**Roller signs front and side as specified**
		Destination Sign - LED	**Twin Vision**	**Mobilite front and side as specified**
E.		Donation box (in lieu of standard farebox – deduct)	**Diamond**	**Diamond Donation Box as specified**
F.		Farebox Electrical Prep Only (less standard farebox-deduct)	**OEM**	**Prepped as specified**
G.		Limited Slip Differential (Class One)	**FORD**	**Ford Limited Slip Differential**
		Limited Slip Differential (Class Two)	**N/A**	**N/A**
H.		Rear emergency exit window	**Heir**	**Rear window in lieu of rear door as specified**
I.		Paint - One stripe	**Akzo-Noble Sikkens**	**Per specification**
		Paint - Roof second color	**Akzo-Noble Sikkens**	**Per specification**
		Paint - Different Full body	**Akzo-Noble Sikkens**	**Per specification**
		Reflective Vinyl Belt Stripe	**Hoekstra Transportation**	**Up to 11" belt stripe 10 year vinyl**
J.		Lift – Type I (in lieu of standard lift)	**Braun**	**NCL919FIB-2 Century**
		Lift – Type II – Powered outer barrier (in lieu of standard lift)	**Braun**	**NL919FIB-2 Millennium**
		Lift - Folding Platform (in lieu of standard lift)	**Braun**	**NVL917FIB-2 Vista**
K.		Wheelchair Single Point Securement System (in lieu of one standard L-Track position)	**Q'Straint**	**Q8100-SC-A1 Slide-N-Click.**

		Additional Wheelchair Position – L Track System	**Q'Straint**	**Q8100-A1-L – same as base bus configuration**
		Additional Wheelchair Position – Single Point System	**Q'Straint**	**Q8100-SC-A1 Slide-N-Click.**
L.		Two-way radio prep package	**OEM**	**Prep package to include two access panels, ground planes and wiring per specification.**
M.		Radio - AM/FM stereo system w/ four speakers	**OEM Chassis**	**OEM radio and antenna to be provided where available. Includes 4 speakers**
		Public Address System Only w/ two speakers	**Body OEM**	**As specified**
		Radio - AM/FM/PA stereo system w/ four speakers	**Body OEM**	**As specified**
		Radio – Additional speaker	**OEM**	**OEM**
N.		Rear Air Ride Suspension (Class One)	**MorRyde**	**Rear air ride suspension installed by MorRyde corp. as specified.**
O.		Rubber Flooring (in lieu of smooth/slip-resistant flooring)	**RCA**	**RCA Rubber flooring in lieu of Altro**
P.		Entrance Stepwell Heater	**Lighthouse**	**Warm Welcome**
Q.		Electric Driveline Brake (Retarder)	**Thelma**	**Per specification**
R.		Seats – Rear five place passenger	**Freedman Seating Co.**	**Mid-Back with USR belts except on middle seat, seat covers. No grab handles.**
		Seats - Forward Facing Standard Double Seat	**Freedman Seating Co.**	**Mid-Back with USR belts, grab handles and seat covers**
		Seats – Forward Facing Double Fold-A-Way	**Freedman Seating Co.**	**Mid-Back Featherweight Fold-a-away with USR belts, grab handles and seat covers**
		Seats – Double Flip-Up	**Freedman Seating Co.**	**Freedman Double Flip with seatbelts, seat covers and grab handles.**
		Seats- Double w/Single Integrated Child Seat (ICS)	**Freedman Seating Co.**	**ICS with companion seat - with USR belts, grab handles and seat covers**
		Seats- Double w/Double Integrated Child Seat (ICS)	**Freedman Seating Co.**	**Double ICS with USR belts, grab handles and seat covers**
S.		Driver's Power Seat Base (Class One)	**USSC**	**G2E**
T.		Alt Engine – Gas (Class One)	**Ford 6.8 L V10**	**6.8 L V10 Gas**
		Alt Engine – Propane (Class One)	**Ford 6.8L with ROUSH conversion**	**Engine ordered with G98 alternative fuel prep package and then converted with ROUSH propane 65 Gallon LPG package.**
		Alt Engine – CNG (Class One)	**Ford 6.8L with G.A.S. conversion**	**Engine ordered with G98 alternative fuel prep package and then converted to CNG by Green Alternative Systems.**

U.		Stop Request System	**Body OEM**	**System with pull chords and driver alert systems as specified.**
V.		Back-Up Sensor System	**Hawkeye**	**Integrated into bumper with driver system per specification.**
W.		Video Surveillance – Two Camera System	**REI**	**4 CH HD400 DVR w/2 Cameras & 320GB Hard Drive**
		Video Surveillance - Four Camera System	**REI**	**4 CH HD400 DVR w/4 Cameras & 320GB Hard Drive**
		Video Surveillance - Six Camera System	**REI**	**8 CH HD800 DVR w/6 Camera & 500GB Hard Drive**
		Video Surveillance - DVR System Upgrade	**REI**	**Upgrade from 320gb to 500gb Hard Drive**
		Video Surveillance – Extra Interior Cameras	**REI**	**Same as system**
		Video Surveillance – Extra Exterior Cameras	**REI**	**Same as system**
X.		Video Surveillance Preparation Package	**Body OEM Prep**	**Body OEM Prep Based on customers need.**

VI	**EXCEPTIONS - List all exceptions in the space below:**

No exceptions.

CONTRACTOR COMMENTS	**CONTRACTOR COMMENTS**

This Schedule is for Metal Cage class 1 bus.

<u>Class I Ford F550</u>

1. This bid includes the Ford Motor Co. GPC concession of $4000 for this fixed 2-year contract. The bid price also includes the Ford Motor Company Mobility Concession of $1000 mobility rebate on any Ford lift equipped bus.

SCHEDULE "F"

Authorized Michigan Transit Agencies

For

Purchasing Program for Vehicles

July 7, 2014

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Telephone No.: (313) 831-8650 Fax No.: (313) 831-3611 Email: kbisdorf@matrixhs.org

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Macomb

MS. BECKY ROSE
Warren Parks & Rec.
5440 Arden
Warren, Michigan 48092

Telephone No.: (586) 268-0551 Fax No.: (586) 268-0606 Email:

Oakland

MS. LANNETTE AMON
Waterford Senior Center
3621 Pontiac Lake Road
Waterford, Michigan 48328

Telephone No.: (248) 682 9450 Fax No.: 248 682 9450 Email:

Washtenaw

MS. MICHAELENE PAWLAK
Western-Washtenaw Area Value Express
809 West Middle Street
P.O. Box 272
Chelsea, MI 48118

Telephone No.: (734) 433-1338 Fax No.: (734) 475-9494 Email: wwaveadministration@comcast.net

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Oakland

MS. BEVERLY SPOOR
White Lake Township
7525 Highland Road
White Lake, MI 48383-2900

Telephone No.: Fax No.: Email:

Lake

MS. VEDRA GANT-PAIGE
Yates Township
PO Box 147
Idlewild, MI 49642

Telephone No.: (231) 745-7311 Fax No.: (231) 745-2070 Email: vgant@yatesdialaride.com; vedragant@

STATE OF MICHIGAN

Contract No. 071B6600071

Medium Class of Non-Lift and Lift Transit Buses

SCHEDULE "G"
PRICING

COST MODEL
MICHIGAN MEDIUM CLASS BUSES - COMPOSITE BODY
Minimum 7 Years/200,000 Miles

Body Manufacturer:	
Bidder Company Name:	**HOEKSTRA TRANSPORTATION, INC.**
Bidder Address:	**3741 Roger B Chaffee Blvd - Grand Rapids, MI 49548**
Preparer's Name:	**Steve Bolin**
Inspection Facility:	**HOEKSTRA TRANSPORTATION, INC.**
Address of Inspection Facility:	**3741 Roger B Chaffee Blvd - Grand Rapids, MI 49548**

I	**COST MODEL - COMPOSITE BODY**			
	Qty	**Description**	**Michigan Public Transit Authorities Unit Price**	**Extended Total**
		Base Bus Floor Plans – Class One		
A.		**Class One - 26 Foot Bus – Vinyl Seat Covers**		
1.	2	24 passenger without lift	**83,569.00**	**167,138.00**
	5	14+2 passenger with lift	**88,945.00**	**444,725.00**
	5	10+3 passenger with lift	**89,865.00**	**449,325.00**
B.		**Class One- 26 Foot Bus – Fabric Seat Covers**		
	2	24 passenger without lift	**84,169.00**	**168,338.00**
	5	14+2 passenger with lift	**89,445.00**	**447,225.00**
	5	10+3 passenger with lift	**90,315.00**	**451,575.00**
C.		**Class One – 29 Foot Bus – Vinyl Seat Covers**		
	2	28 passenger without lift	**86,069.00**	**172,138.00**
	6	18+2 passenger with lift	**91,570.00**	**549,420.00**
	6	14+3 passenger with lift	**91,790.00**	**550,740.00**
	5	10+4 passenger with lift	**93,020.00**	**465,100.00**
D.		**Class One- 29 Foot Bus – Fabric Seat Covers**		
	2	28 passenger without lift	**86,769.00**	**173,538.00**
	6	18+2 passenger with lift	**92,170.00**	**553,020.00**
	6	14+3 passenger with lift	**92,340.00**	**554,040.00**
	5	10+4 passenger with lift	**93,570.00**	**467,850.00**
E.		**Class One – 32 Foot Bus – Vinyl Seat Covers**		
	2	32 passenger without lift	**89,409.00**	**178,818.00**
	5	22+2 passenger with lift	**93,510.00**	**467,550.00**
	5	18+3 passenger with lift	**93,930.00**	**469,650.00**
	6	14+4 passenger with lift	**95,560.00**	**573,360.00**

F.		**Class One – 32 Foot Bus – Fabric Seat Covers**		
	2	32 passenger without lift	**90,209.00**	**180,418.00**
	5	22+2 passenger with lift	**94,210.00**	**471,050.00**
	5	18+3 passenger with lift	**94,580.00**	**472,900.00**
	6	14+4 passenger with lift	**96,210.00**	**577,260.00**
		SUBTOTAL (Class One Buses A-F)		**9,005,178.00**
		Base Bus Floor Plans – Class Two		
G.		**Class Two - 26 Foot Bus – Vinyl Seat Covers**		
	2	24 passenger without lift	**108089**	**216,178.00**
	5	14+2 passenger with lift	**113824**	**569,120.00**
	5	10+3 passenger with lift	**114744**	**573,720.00**
H.		**Class Two- 26 Foot Bus – Fabric Seat Covers**		
	2	24 passenger without lift	**108689**	**217,378.00**
	5	14+2 passenger with lift	**114324**	**571,620.00**
	5	10+3 passenger with lift	**115194**	**575,970.00**
I.		**Class Two – 29 Foot Bus – Vinyl Seat Covers**		
	2	28 passenger without lift	**109299**	**218,598.00**
	6	18+2 passenger with lift	**115734**	**694,404.00**
	6	14+3 passenger with lift	**115954**	**695,724.00**
	5	10+4 passenger with lift	**116609**	**583,045.00**
J.		**Class Two- 29 Foot Bus – Fabric Seat Covers**		
	2	28 passenger without lift	**109999**	**219,998.00**
	6	18+2 passenger with lift	**116334**	**698,004.00**
	6	14+3 passenger with lift	**116504**	**699,024.00**
	5	10+4 passenger with lift	**117159**	**585,795.00**
K.		**Class Two- 32 Foot Bus – Vinyl Seat Covers**		
	4	32 passenger without lift	**112694**	**450,776.00**
	5	22+2 passenger with lift	**117729**	**588,645.00**
	5	18+3 passenger with lift	**118149**	**590,745.00**
	6	14+4 passenger with lift	**119104**	**714,624.00**
L.		**Class Two- 32 Foot Bus – Fabric Seat Covers**		
1.	4	32 passenger without lift	**113494**	**453,976.00**
2.	5	22+2 passenger with lift	**118429**	**592,145.00**
3.	5	18+3 passenger with lift	**118799**	**593,995.00**
4.	6	14+4 passenger with lift	**119754**	**718,524.00**
		SUBTOTAL (class two buses G-L)		**11,822,008.00**
		TOTAL (class one and two buses A-L)		**20,827,186.00**
M.		**Equipment Options**		
1.	40	Air Conditioning, Split unit **26 foot**	**4,500.00**	**180,000.00**
2.	70	Air Conditioning, Split unit **29 foot**	**7,200.00**	**504,000.00**
3.	70	Air Conditioning, Split unit **32 foot**	**7,200.00**	**504,000.00**
4.	15	Rooftop AC with heat, **26 foot**	**11,000.00**	**165,000.00**
5.	20	Rooftop AC with heat, **29 foot**	**11,000.00**	**220,000.00**
6.	20	Rooftop AC with heat, **32 foot**	**11,000.00**	**220,000.00**
7.	50	Auxiliary Air Heater -Gas	**3,100.00**	**155,000.00**
8.	75	Auxiliary Air Heater & Block Heater (in lieu of Aux Coolant Heater)	**500.00**	**37,500.00**
9.	5	Destination Sign – Roller/Curtain	**2,600.00**	**13,000.00**
10.	25	Destination Sign - LED	**3,600.00**	**90,000.00**

11.	50	Donation box (in lieu of standard farebox – deduct)	**-1,200.00**	**-60,000.00**
12.	50	Farebox Electrical Prep Only (less standard farebox- deduct)	**-1,000.00**	**-50,000.00**
13.	50	Limited Slip Differential (Class One Only)	**0.00**	**0.00**
14.	50	Limited Slip Differential (Class Two Only)	**830.00**	**41,500.00**
15.	50	Rear emergency exit window (deduct)	**-900.00**	**-45,000.00**
16.	40	Paint - One stripe	**600.00**	**24,000.00**
17.	40	Paint - Roof second color	**100.00**	**4,000.00**
18.	40	Paint - Different Full body	**1,800.00**	**72,000.00**
19.	25	Reflective Vinyl Belt Stripe	**300.00**	**7,500.00**
20.	20	Lift – Type I (in lieu of standard lift - deduct)	**0.00**	**0.00**
21.	20	Lift – Type II – Powered outer barrier (in lieu of standard lift)	**0.00**	**0.00**
22.	20	Lift - Folding Platform (in lieu of standard lift)	**0.00**	**0.00**
23.	30	Alternate Standard Lift Manufacturer	**1,000.00**	**30,000.00**
24.	100	Wheelchair Single Point Securement System (in lieu of one standard L-Track position)	**100.00**	**10,000.00**
25.	15	Additional Wheelchair Position – L Track System	**560.00**	**8,400.00**
26.	15	Additional Wheelchair Position – Single Point System	**560.00**	**8,400.00**
27.	40	Two-way radio prep package	**210.00**	**8,400.00**
28.	40	Radio - AM/FM stereo system w/ four speakers	**300.00**	**12,000.00**
29.	10	Public Address (PA) System Only w/ two speakers	**250.00**	**2,500.00**
30.	10	Radio – AM/FM/PA System w/ four speakers	**400.00**	**4,000.00**
31.	10	Radio – Speaker only (additional)	**50.00**	**500.00**
32.	50	Rear Air Ride Suspension (Class One Only)	**9,460.00**	**473,000.00**
33.	75	Rubber Flooring (in lieu of slip resistant smooth flooring) - Deduct	**-500.00**	**-37,500.00**
34.	75	Entrance Stepwell Heater	**350.00**	**26,250.00**
35.	80	Electric Driveline Brake (Retarder)	**7,000.00**	**560,000.00**
36.	25	Seating – Rear five place passenger – Vinyl	**165.00**	**4,125.00**
37.	25	Seating – Rear five place passenger - Fabric	**215.00**	**5,375.00**
38.	5	Seating – Forward Facing Standard Double Seat - Vinyl	**450.00**	**2,250.00**
39.	5	Seating – Forward Facing Standard Double Seat - Fabric	**500.00**	**2,500.00**
40.	5	Seating – Forward Facing Standard Double Seat – Vinyl (Deduct)	**-450.00**	**-2,250.00**
41.	5	Seating – Forward Facing Standard Double Seat – Fabric (Deduct)	**-500.00**	**-2,500.00**
42.	5	Seating – Forward Facing Double Fold-A-Way - Vinyl	**775.00**	**3,875.00**
43.	5	Seating – Forward Facing Double Fold-A-Way - Fabric	**825.00**	**4,125.00**
44.	5	Seating – Forward Facing Double Fold-A-Way – Vinyl (Deduct)	**-775.00**	**-3,875.00**
45.	5	Seating – Forward Facing Double Fold-A-Way –Fabric (Deduct)	**-825.00**	**-4,125.00**
46.	5	Seating – Double Flip-up – Vinyl	**565.00**	**2,825.00**
47.	5	Seating – Double Flip-up - Fabric	**615.00**	**3,075.00**
48.	5	Seating – Double Flip-up – Vinyl (Deduct)	**-565.00**	**-2,825.00**
49.	5	Seating – Double Flip-up – Fabric (Deduct)	**-615.00**	**-3,075.00**
50.	5	Seating – Double w/Single Integrated Child Seat (ICS) - Vinyl	**1,020.00**	**5,100.00**
51.	5	Seating – Double w/Single Integrated Child Seat (ICS) – Fabric	**1,070.00**	**5,350.00**
52.	5	Seating – Double w/Single Integrated Child Seat (ICS) – Vinyl (Deduct)	**-1,020.00**	**-5,100.00**
53.	5	Seating – Double w/Single Integrated Child Seat (ICS) – Fabric (Deduct)	**-1,070.00**	**-5,350.00**
54.	5	Seating – Double w/Double Integrated Child Seat (ICS) - Vinyl	**1,500.00**	**7,500.00**
55.	5	Seating – Double w/Double Integrated Child Seat (ICS) - Fabric	**1,550.00**	**7,750.00**
56.	50	Driver's Power Seat Base (Class One Only)	**1,400.00**	**70,000.00**
57.	50	Alt. Engine – Gas (Class One Only) – Deduct	**-7,500.00**	**-375,000.00**

58.	10	Alt. Engine – Propane (Class One Only)	**22,000.00**	**220,000.00**
59.	5	Alt. Engine – CNG (Class One Only)	**25,765.00**	**128,825.00**
60.	10	Stop Request System	**700.00**	**7,000.00**
61.	80	Back-up Sensor System	**1,300.00**	**104,000.00**
62.	40	Video Surveillance – Two Camera System	**1,600.00**	**64,000.00**
63.	20	Video Surveillance - Four Camera System	**2,900.00**	**58,000.00**
64.	5	Video Surveillance - Six Camera System	**5,000.00**	**25,000.00**
65.	10	Video Surveillance - DVR System Upgrade	**500.00**	**5,000.00**
66.	10	Video Surveillance – Extra Interior Cameras	**700.00**	**7,000.00**
67.	10	Video Surveillance – Extra Exterior Cameras	**700.00**	**7,000.00**
68.	10	Video Surveillance Preparation Package	**500.00**	**5,000.00**
69.	10	Hydraulic Brakes in lieu or Air Brakes	**890.00**	**8,900.00**
70.	20	Spare Tire – Steer Axle	**450.00**	**9,000.00**
71.	40	Spare Tire – Drive Axle	**450.00**	**18,000.00**
		SUBTOTAL (Options)		**3,574,925.00**
GRAND TOTAL EVALUATION PRICE OF A, B, C, D, E, F, G, H, I, J, K, L, and M ABOVE				**24,402,111.00**

Refer to "Standard Contract Terms", section 7, regarding administration fee.

STATE OF MICHIGAN

COST MODEL

MICHIGAN MEDIUM CLASS BUSES - METAL BODY

Minimum 7 Years/200,000 Miles

Body Manufacturer:	
Bidder Company Name:	**HOEKSTRA TRANSPORTATION, INC.**
Bidder Address:	**3741 Roger B Chaffee Blvd - Grand Rapids, MI 49548**
Preparer's Name:	**Steve Bolin**
Inspection Facility:	**HOEKSTRA TRANSPORTATION, INC.**
Address of Inspection Facility:	**3741 Roger B Chaffee Blvd - Grand Rapids, MI 49548**

I	**COST MODEL - METAL BODY**			
	Qty	**Description**	**Michigan Public Transit Authorities Unit Price**	**Extended Total**
		Base Bus Floor Plans – Class One		
A.		**Class One - 26 Foot Bus – Vinyl Seat Covers**		
1.	2	24 passenger without lift	**77,852.00**	**155,704.00**
	5	14+2 passenger with lift	**83,665.00**	**418,325.00**
	5	10+3 passenger with lift	**83,737.00**	**418,685.00**
B.		**Class One- 26 Foot Bus – Fabric Seat Covers**		
	2	24 passenger without lift	**78,452.00**	**156,904.00**
	5	14+2 passenger with lift	**84,165.00**	**420,825.00**
	5	10+3 passenger with lift	**84,187.00**	**420,935.00**
C.		**Class One – 29 Foot Bus – Vinyl Seat Covers**		
	2	28 passenger without lift	**79,509.00**	**159,018.00**
	6	18+2 passenger with lift	**86,624.00**	**519,744.00**
	6	14+3 passenger with lift	**86,654.00**	**519,924.00**
	5	10+4 passenger with lift	**87,440.00**	**437,200.00**
D.		**Class One- 29 Foot Bus – Fabric Seat Covers**		
	2	28 passenger without lift	**80,209.00**	**160,418.00**
	6	18+2 passenger with lift	**87,224.00**	**523,344.00**
	6	14+3 passenger with lift	**87,204.00**	**523,224.00**
	5	10+4 passenger with lift	**87,990.00**	**439,950.00**
E.		**Class One – 32 Foot Bus – Vinyl Seat Covers**		
	2	32 passenger without lift	**81,676.00**	**163,352.00**
	5	22+2 passenger with lift	**87,746.00**	**438,730.00**
	5	18+3 passenger with lift	**87,771.00**	**438,855.00**
	6	14+4 passenger with lift	**88,607.00**	**531,642.00**
F.		**Class One – 32 Foot Bus – Fabric Seat Covers**		
	2	32 passenger without lift	**82,476.00**	**164,952.00**
	5	22+2 passenger with lift	**88,446.00**	**442,230.00**
	5	18+3 passenger with lift	**88,421.00**	**442,105.00**
	6	14+4 passenger with lift	**89,257.00**	**535,542.00**

		SUBTOTAL (Class One Buses A-F)		**8,431,608.00**
		Base Bus Floor Plans – Class Two		
G.		**Class Two - 26 Foot Bus – Vinyl Seat Covers**		
	2	24 passenger without lift	**No Bid**	
	5	14+2 passenger with lift	**No Bid**	
	5	10+3 passenger with lift	**No Bid**	
H.		**Class Two- 26 Foot Bus – Fabric Seat Covers**		
	2	24 passenger without lift	**No Bid**	
	5	14+2 passenger with lift	**No Bid**	
	5	10+3 passenger with lift	**No Bid**	
I.		**Class Two – 29 Foot Bus – Vinyl Seat Covers**		
	2	28 passenger without lift	**No Bid**	
	6	18+2 passenger with lift	**No Bid**	
	6	14+3 passenger with lift	**No Bid**	
	5	10+4 passenger with lift	**No Bid**	
J.		**Class Two- 29 Foot Bus – Fabric Seat Covers**		
	2	28 passenger without lift	**No Bid**	
	6	18+2 passenger with lift	**No Bid**	
	6	14+3 passenger with lift	**No Bid**	
	5	10+4 passenger with lift	**No Bid**	
K.		**Class Two- 32 Foot Bus – Vinyl Seat Covers**		
	4	32 passenger without lift	**No Bid**	
	5	22+2 passenger with lift	**No Bid**	
	5	18+3 passenger with lift	**No Bid**	
	6	14+4 passenger with lift	**No Bid**	
L.		**Class Two- 32 Foot Bus – Fabric Seat Covers**		
1.	4	32 passenger without lift	**No Bid**	
2.	5	22+2 passenger with lift	**No Bid**	
3.	5	18+3 passenger with lift	**No Bid**	
4.	6	14+4 passenger with lift	**No Bid**	
		SUBTOTAL (class two buses G-L)		**0.00**
		TOTAL (class one and two buses A-L)		**8,431,608.00**
M.		**Equipment Options**		
1.	40	Air Conditioning, Split unit **26 foot**	**6,000.00**	**240,000.00**
2.	70	Air Conditioning, Split unit **29 foot**	**6,200.00**	**434,000.00**
3.	70	Air Conditioning, Split unit **32 foot**	**6,200.00**	**434,000.00**
4.	15	Rooftop AC with heat, **26 foot**	**9,500.00**	**142,500.00**
5.	20	Rooftop AC with heat, **29 foot**	**9,500.00**	**190,000.00**
6.	20	Rooftop AC with heat, **32 foot**	**9,500.00**	**190,000.00**
7.	50	Auxiliary Air Heater -Gas	**3,100.00**	**155,000.00**
8.	75	Auxiliary Air Heater & Block Heater (in lieu of Aux Coolant Heater)	**500.00**	**37,500.00**
9.	5	Destination Sign – Roller/Curtain	**2,600.00**	**13,000.00**
10.	25	Destination Sign - LED	**3,500.00**	**87,500.00**
11.	50	Donation box (in lieu of standard farebox – deduct)	**-1,000.00**	**-50,000.00**
12.	50	Farebox Electrical Prep Only (less standard farebox- deduct)	**-1,200.00**	**-60,000.00**
13.	50	Limited Slip Differential (Class One Only)	**0.00**	**0.00**
14.	50	Limited Slip Differential (Class Two Only)	**0.00**	**0.00**
15.	50	Rear emergency exit window (deduct)	**-800.00**	**-40,000.00**

16.	40	Paint - One stripe	**450.00**	**18,000.00**
17.	40	Paint - Roof second color	**100.00**	**4,000.00**
18.	40	Paint - Different Full body	**4,200.00**	**168,000.00**
19.	25	Reflective Vinyl Belt Stripe	**300.00**	**7,500.00**
20.	20	Lift – Type I (in lieu of standard lift - deduct)	**0.00**	**0.00**
21.	20	Lift – Type II – Powered outer barrier (in lieu of standard lift)	**0.00**	**0.00**
22.	20	Lift - Folding Platform (in lieu of standard lift)	**0.00**	**0.00**
23.	30	Alternate Standard Lift Manufacturer	**1,000.00**	**30,000.00**
24.	100	Wheelchair Single Point Securement System (in lieu of one standard L-Track position)	**187.00**	**18,700.00**
25.	15	Additional Wheelchair Position – L Track System	**387.00**	**5,805.00**
26.	15	Additional Wheelchair Position – Single Point System	**600.00**	**9,000.00**
27.	40	Two-way radio prep package	**150.00**	**6,000.00**
28.	40	Radio - AM/FM stereo system w/ four speakers	**0.00**	**0.00**
29.	10	Public Address (PA) System Only w/ two speakers	**360.00**	**3,600.00**
30.	10	Radio – AM/FM/PA System w/ four speakers	**350.00**	**3,500.00**
31.	10	Radio – Speaker only (additional)	**50.00**	**500.00**
32.	50	Rear Air Ride Suspension (Class One Only)	**7,815.00**	**390,750.00**
33.	75	Rubber Flooring (in lieu of slip resistant smooth flooring) - Deduct	**-100.00**	**-7,500.00**
34.	75	Entrance Stepwell Heater	**350.00**	**26,250.00**
35.	80	Electric Driveline Brake (Retarder)	**6,390.00**	**511,200.00**
36.	25	Seating – Rear five place passenger – Vinyl	**300.00**	**7,500.00**
37.	25	Seating – Rear five place passenger - Fabric	**350.00**	**8,750.00**
38.	5	Seating – Forward Facing Standard Double Seat - Vinyl	**600.00**	**3,000.00**
39.	5	Seating – Forward Facing Standard Double Seat - Fabric	**650.00**	**3,250.00**
40.	5	Seating – Forward Facing Standard Double Seat – Vinyl (Deduct)	**-600.00**	**-3,000.00**
41.	5	Seating – Forward Facing Standard Double Seat – Fabric (Deduct)	**-650.00**	**-3,250.00**
42.	5	Seating – Forward Facing Double Fold-A-Way - Vinyl	**975.00**	**4,875.00**
43.	5	Seating – Forward Facing Double Fold-A-Way - Fabric	**1,025.00**	**5,125.00**
44.	5	Seating – Forward Facing Double Fold-A-Way – Vinyl (Deduct)	**-975.00**	**-4,875.00**
45.	5	Seating – Forward Facing Double Fold-A-Way –Fabric (Deduct)	**-1,025.00**	**-5,125.00**
46.	5	Seating – Double Flip-up – Vinyl	**850.00**	**4,250.00**
47.	5	Seating – Double Flip-up - Fabric	**900.00**	**4,500.00**
48.	5	Seating – Double Flip-up – Vinyl (Deduct)	**-850.00**	**-4,250.00**
49.	5	Seating – Double Flip-up – Fabric (Deduct)	**-900.00**	**-4,500.00**
50.	5	Seating – Double w/Single Integrated Child Seat (ICS) - Vinyl	**1,026.00**	**5,130.00**
51.	5	Seating – Double w/Single Integrated Child Seat (ICS) – Fabric	**1,076.00**	**5,380.00**
52.	5	Seating – Double w/Single Integrated Child Seat (ICS) – Vinyl (Deduct)	**-1,026.00**	**-5,130.00**
53.	5	Seating – Double w/Single Integrated Child Seat (ICS) – Fabric (Deduct)	**-1,076.00**	**-5,380.00**
54.	5	Seating – Double w/Double Integrated Child Seat (ICS) - Vinyl	**1,600.00**	**8,000.00**
55.	5	Seating – Double w/Double Integrated Child Seat (ICS) - Fabric	**1,650.00**	**8,250.00**
56.	50	Driver's Power Seat Base (Class One Only)	**1,500.00**	**75,000.00**
57.	50	Alt. Engine – Gas (Class One Only) – Deduct	**-7,500.00**	**-375,000.00**
58.	10	Alt. Engine – Propane (Class One Only)	**22,000.00**	**220,000.00**
59.	5	Alt. Engine – CNG (Class One Only)	**25,765.00**	**128,825.00**
60.	10	Stop Request System	**550.00**	**5,500.00**
61.	80	Back-up Sensor System	**1,100.00**	**88,000.00**
62.	40	Video Surveillance – Two Camera System	**1,500.00**	**60,000.00**

63.	20	Video Surveillance - Four Camera System	**2,400.00**	**48,000.00**
64.	5	Video Surveillance - Six Camera System	**4,700.00**	**23,500.00**
65.	10	Video Surveillance - DVR System Upgrade	**500.00**	**5,000.00**
66.	10	Video Surveillance – Extra Interior Cameras	**500.00**	**5,000.00**
67.	10	Video Surveillance – Extra Exterior Cameras	**500.00**	**5,000.00**
68.	10	Video Surveillance Preparation Package	**450.00**	**4,500.00**
69.	10	Hydraulic Brakes in lieu or Air Brakes	**0.00**	**0.00**
70.	20	Spare Tire – Steer Axle	**450.00**	**9,000.00**
71.	40	Spare Tire – Drive Axle	**450.00**	**18,000.00**
		SUBTOTAL (Options)		**3,321,630.00**
GRAND TOTAL EVALUATION PRICE OF A, B, C, D, E, F, G, H, I, J, K, L, and M ABOVE				**11,753,238.00**

Refer to "Standard Contract Terms", section 7, regarding administration fee.