

STATE OF TEXAS §
§
COUNTY OF FORT BEND §

**AGREEMENT FOR PURCHASE OF HAZMAT RESPONSE VEHICLE
PURSUANT TO RFP 22-053**

THIS AGREEMENT is made and entered into by and between Fort Bend County, (hereinafter "County"), a body corporate and politic under the laws of the State of Texas, and Siddons-Martin Emergency Group, LLC (hereinafter "Contractor"), a company authorized to conduct business in the State of Texas, (hereinafter referred to collectively as "Parties.")

WITNESSETH

WHEREAS, County desires that Contractor provide a Hazmat Response Vehicle to be utilized by the County's Office of Homeland Security & Emergency Management, which complies with all specifications outlined in RFP 22-053 (hereinafter the "Services"); and

WHEREAS, County desires that Contractor provide Services as will be more specifically described in this Agreement pursuant to RFP 22-053; and

WHEREAS, RFP 22-053, including Addendum No. 1 to RFP 22-053, is incorporated fully by reference and is attached as Exhibit "B"; and

WHEREAS, Contractor represents that it is qualified and desires to perform such Services;
and

NOW, THEREFORE, in consideration of the mutual covenants and conditions set forth below, the Parties agree as follows:

AGREEMENT

Section 1. Scope of Services

A. Contractor shall render Services to County as defined in the Scope of Services, attached as Exhibit "A" and incorporated fully by reference, which includes Contractor's Proposal to Fort Bend County OEM (dated April 6, 2022), Option List, and Quote (Quote # - SMEG-0003513-3).

Section 2. Personnel

A. Contractor represents that it presently has, or is able to obtain, adequate qualified personnel in its employment for the timely performance of the Scope of Services required

under this Agreement and that Contractor shall furnish and maintain, at its own expense, adequate and sufficient personnel, in the opinion of County, to perform the Scope of Services when and as required and without delays.

- B. All employees of Contractor shall have such knowledge and experience as will enable them to perform the duties assigned to them. Any employee of Contractor who, in the opinion of County, is incompetent or by his conduct becomes detrimental to the project shall, upon request of County, immediately be removed from association with the project.
- C. Contractor shall provide all equipment, tools, materials, and other items necessary to perform the Services as described herein.

Section 3. Compensation and Payment

- A. Contractor's fees shall be calculated at the rates set forth in the Quote (Quote # - SMEG-0003513-3) attached within Exhibit A. The Maximum Compensation for the performance of Services within the Scope of Services described in Exhibit A is Six Hundred Fifty Thousand dollars and 00/100 cents (\$650,000.00). In no case shall the amount paid by County under this Agreement exceed the Maximum Compensation without an approved change order.
- B. All performance of the Scope of Services by Contractor including any changes in the Scope of Services and revision of work satisfactorily performed will be performed only when approved in advance and authorized by County.
- C. County will pay Contractor based on the following procedures: Upon completion of the tasks identified in the Scope of Services, Contractor shall submit to County two (2) original copies of invoices showing the amounts due for services performed in a form acceptable to County. County shall review such invoices and approve them within 30 calendar days with such modifications as are consistent with this Agreement and forward same to the Auditor for processing. County shall pay each such approved invoice within thirty (30) calendar days. County reserves the right to withhold payment pending verification of satisfactory work performed.
- D. County is a body corporate and politic under the laws of the State of Texas and claims exemption from sales and use taxes. A copy of a tax-exempt certificate will be furnished upon request. Interest resulting from late payments by County shall be governed by Chapter 2251, TEXAS GOVERNMENT CODE.

Section 4. Limit of Appropriation

- A. Contractor clearly understands and agrees, such understanding and agreement being of the absolute essence of this Agreement, that County shall have available the total maximum sum of Six Hundred Fifty Thousand dollars and 00/100 cents (\$650,000.00), specifically allocated to fully discharge any and all liabilities County may incur.

- B. Contractor does further understand and agree, said understanding and agreement also being of the absolute essence of this Agreement, that the total maximum compensation that Contractor may become entitled to and the total maximum sum that County may become liable to pay to Contractor shall not under any conditions, circumstances, or interpretations thereof exceed Six Hundred Fifty Thousand dollars and 00/100 cents (\$650,000.00).
- C. It is specifically understood and agreed that in the event no funds or insufficient funds are appropriated by Fort Bend County under this Agreement, Fort Bend County shall notify all necessary parties that this Agreement shall thereafter terminate and be null and void on the last day of the fiscal period for which appropriations were made without penalty, liability or expense to Fort Bend County.

Section 5. Time of Performance

The time for performance of the Scope of Services by Contractor shall begin with receipt of the Notice to Proceed from County and end no later than August 23, 2023, including delivery of the Hazmat Response Vehicle to County by August 23, 2023. Contractor shall complete the tasks described in the Scope of Services within this time or within such as additional time as may be extended by the County.

Section 6. Modifications and Waivers

- A. The Parties may not amend or waive this Agreement, except by a written agreement executed by both Parties.
- B. No failure or delay in exercising any right or remedy or requiring the satisfaction of any condition under this Agreement, and no course of dealing between the Parties, operates as a waiver or estoppel of any right, remedy, or condition.
- C. The rights and remedies of the Parties set forth in this Agreement are not exclusive of, but are cumulative to, any rights or remedies now or subsequently existing at law, in equity, or by statute.

Section 7. Termination

- A. Termination for Convenience: The County may terminate this Agreement at any time upon thirty (30) days written notice.
- B. Termination for Default
 - 1. County may terminate the whole or any part of this Agreement for cause in the following circumstances:

- a. If Contractor fails to perform services within the time specified in the Scope of Services or any extension thereof granted by the County in writing;
 - b. If Contractor materially breaches any of the covenants or terms and conditions set forth in this Agreement or fails to perform any of the other provisions of this Agreement or so fails to make progress as to endanger performance of this Agreement in accordance with its terms, and in any of these circumstances does not cure such breach or failure to County's reasonable satisfaction within a period of ten (10) calendar days after receipt of notice from County specifying such breach or failure.
- 2. If, after termination, it is determined for any reason whatsoever that Contractor was not in default, or that the default was excusable, the rights and obligations of the Parties shall be the same as if the termination had been issued for the convenience of the County in accordance with Section 7.1 above.
- C. Upon termination of this Agreement, County shall compensate Contractor for cancellation fees as outlined in Contractor's Proposal to Fort Bend County OEM, dated April 6, 2022, (attached within Exhibit A). Contractor's final invoice for said services will be presented to and paid by County in the same manner set forth in Section 3 above.
- D. If County terminates this Agreement as provided in this Section, no fees of any type, other than fees due and payable at the Termination Date, shall thereafter be paid to Contractor.

Section 8. Ownership and Reuse of Documents

All documents, data, reports, research, graphic presentation materials, etc., developed by Contractor as a part of its work under this Agreement, shall become the property of County upon completion of this Agreement, or in the event of termination or cancellation thereof, at the time of payment under Section 3 for work performed. Contractor shall promptly furnish all such data and material to County on request.

Section 9. Inspection of Books and Records

Contractor will permit County, or any duly authorized agent of County, to inspect and examine the books and records of Contractor for the purpose of verifying the amount of work performed under the Scope of Services. County's right to inspect survives the termination of this Agreement for a period of four years.

Section 10. Insurance

- A. Prior to commencement of the Services, Contractor shall furnish County with properly executed certificates of insurance which shall evidence all insurance required and provide

that such insurance shall not be canceled, except on 30 days' prior written notice to County. Contractor shall provide certified copies of insurance endorsements and/or policies if requested by County. Contractor shall maintain such insurance coverage from the time Services commence until Services are completed and provide replacement certificates, policies and/or endorsements for any such insurance expiring prior to completion of Services. Contractor shall obtain such insurance written on an Occurrence form from such companies having Bests rating of A/VII or better, licensed or approved to transact business in the State of Texas, and shall obtain such insurance of the following types and minimum limits:

1. Workers Compensation in accordance with the laws of the State of Texas. Substitutes to genuine Workers' Compensation Insurance will not be allowed.
 2. Employers' Liability insurance with limits of not less than \$1,000,000 per injury by accident, \$1,000,000 per injury by disease, and \$1,000,000 per bodily injury by disease.
 3. Commercial general liability insurance with a limit of not less than \$1,000,000 each occurrence and \$2,000,000 in the annual aggregate. Policy shall cover liability for bodily injury, personal injury, and property damage and products/completed operations arising out of the business operations of the policyholder.
 4. Business Automobile Liability coverage applying to owned, non-owned and hired automobiles with limits not less than \$1,000,000 each occurrence combined single limit for Bodily Injury and Property Damage combined.
- B. County and the members of Commissioners Court shall be named as additional insured to all required coverage except for Workers' Compensation and Professional Liability (if required). All Liability policies written on behalf of Contractor shall contain a waiver of subrogation in favor of County and members of Commissioners Court. For Commercial General Liability, the County shall be named as an Additional Insured on a Primary & Non-Contributory basis.
- C. If required coverage is written on a claims-made basis, Contractor warrants that any retroactive date applicable to coverage under the policy precedes the effective date of the Contract and that continuous coverage will be maintained or an extended discovery period will be exercised for a period of 2 years beginning from the time the work under this Contract is completed.
- D. Contractor shall not commence any portion of the work under this Contract until it has obtained the insurance required herein and certificates of such insurance have been filed with and approved by Fort Bend County.

- E. No cancellation of or changes to the certificates, or the policies, may be made without thirty (30) days prior, written notification to Fort Bend County.
- F. Approval of the insurance by Fort Bend County shall not relieve or decrease the liability of Contractor.

Section 11. Indemnity

CONTRACTOR SHALL INDEMNIFY AND DEFEND COUNTY AGAINST ALL LOSSES, LIABILITIES, CLAIMS, CAUSES OF ACTION, AND OTHER EXPENSES, INCLUDING REASONABLE ATTORNEYS FEES, ARISING FROM ACTIVITIES OF CONTRACTOR, ITS AGENTS, SERVANTS OR EMPLOYEES, PERFORMED UNDER THIS AGREEMENT THAT RESULT FROM THE NEGLIGENT ACT, ERROR, OR OMISSION OF CONTRACTOR OR ANY OF CONTRACTOR'S AGENTS, SERVANTS OR EMPLOYEES. THE PARTIES AGREE THAT UNDER THE CONSTITUTION AND LAWS OF THE STATE OF TEXAS, COUNTY CANNOT ENTER INTO AN AGREEMENT WHEREBY COUNTY AGREES TO INDEMNIFY OR HOLD HARMLESS ANOTHER PARTY; THEREFORE, ALL REFERENCES OF ANY KIND TO COUNTY DEFENDING, INDEMNIFYING, HOLDING OR SAVING HARMLESS CONTRACTOR FOR ANY REASON ARE HEREBY DELETED.

Section 12. Confidential and Proprietary Information

- A. Contractor acknowledges that it and its employees or agents may, in the course of performing their responsibilities under this Agreement, be exposed to or acquire information that is confidential to County. Any and all information of any form obtained by Contractor or its employees or agents from County in the performance of this Agreement shall be deemed to be confidential information of County ("Confidential Information"). Any reports or other documents or items (including software) that result from the use of the Confidential Information by Contractor shall be treated with respect to confidentiality in the same manner as the Confidential Information. Confidential Information shall be deemed not to include information that (a) is or becomes (other than by disclosure by Contractor) publicly known or is contained in a publicly available document; (b) is rightfully in Contractor's possession without the obligation of nondisclosure prior to the time of its disclosure under this Agreement; or (c) is independently developed by employees or agents of Contractor who can be shown to have had no access to the Confidential Information.
- B. Contractor agrees to hold Confidential Information in strict confidence, using at least the same degree of care that Contractor uses in maintaining the confidentiality of its own confidential information, and not to copy, reproduce, sell, assign, license, market, transfer or otherwise dispose of, give, or disclose Confidential Information to third parties or use Confidential Information for any purposes whatsoever other than the provision of Services to County hereunder, and to advise each of its employees and agents of their obligations to keep Confidential Information confidential. Contractor shall use its best efforts to assist County in identifying and preventing any unauthorized use or disclosure

of any Confidential Information. Without limitation of the foregoing, Contractor shall advise County immediately in the event Contractor 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 Agreement and Contractor will at its expense cooperate with County in seeking injunctive or other equitable relief in the name of County or Contractor against any such person. Contractor agrees that, except as directed by County, Contractor will not at any time during or after the term of this Agreement disclose, directly or indirectly, any Confidential Information to any person, and that upon termination of this Agreement or at County's request, Contractor will promptly turn over to County all documents, papers, and other matter in Contractor's possession which embody Confidential Information.

- C. Contractor acknowledges that a breach of this Section, including disclosure of any Confidential Information, or disclosure of other information that, at law or in equity, ought to remain confidential, will give rise to irreparable injury to County that is inadequately compensable in damages. Accordingly, County may seek and obtain injunctive relief against the breach or threatened breach of the foregoing undertakings, in addition to any other legal remedies that may be available. Contractor acknowledges and agrees that the covenants contained herein are necessary for the protection of the legitimate business interest of County and are reasonable in scope and content.
- D. Contractor in providing all services hereunder agrees to abide by the provisions of any applicable Federal or State Data Privacy Act.
- E. Contractor expressly acknowledges that County is subject to the Texas Public Information Act, TEX. GOV'T CODE ANN. §§ 552.001 et seq., as amended, and notwithstanding any provision in the Agreement to the contrary, County will make any information related to the Agreement, or otherwise, available to third parties in accordance with the Texas Public Information Act. Any proprietary or confidential information marked as such provided to County by Consultant shall not be disclosed to any third party, except as directed by the Texas Attorney General in response to a request for such under the Texas Public Information Act, which provides for notice to the owner of such marked information and the opportunity for the owner of such information to notify the Attorney General of the reasons why such information should not be disclosed. The terms and conditions of the Agreement are not proprietary or confidential information.

Section 13. Independent Contractor

- A. In the performance of work or services hereunder, Contractor shall be deemed an independent Contractor, and any of its agents, employees, officers, or volunteers performing work required hereunder shall be deemed solely as employees of Contractor or, where permitted, of its subcontractors.

- B. Contractor and its agents, employees, officers, or volunteers shall not, by performing work pursuant to this Agreement, be deemed to be employees, agents, or servants of County and shall not be entitled to any of the privileges or benefits of County employment.

Section 14. Notices

- A. Each party giving any notice or making any request, demand, or other communication (each, a "Notice") pursuant to this Agreement shall do so in writing and shall use one of the following methods of delivery, each of which, for purposes of this Agreement, is a writing: personal delivery, registered or certified mail (in each case, return receipt requested and postage prepaid), or nationally recognized overnight courier (with all fees prepaid).
- B. Each party giving a Notice shall address the Notice to the receiving party at the address listed below or to another address designated by a party in a Notice pursuant to this Section:

County: Fort Bend County Office of Homeland Security &
Emergency Management
Attn: Emergency Management Coordinator
1521 Eugene Heimann Circle
Richmond, Texas 77469

With a copy to: Fort Bend County
Attn: County Judge
401 Jackson Street, 1st Floor
Richmond, Texas 77469

Contractor: Siddons-Martin Emergency Group, LLC
Attn: Cory Frankum
3500 Shelby Lane
Denton, Texas 76207

- C. Notice is effective only if the party giving or making the Notice has complied with subsections 14.1 and 14.2 and if the addressee has received the Notice. A Notice is deemed received as follows:
1. If the Notice is delivered in person, or sent by registered or certified mail or a nationally recognized overnight courier, upon receipt as indicated by the date on the signed receipt.

2. If the addressee rejects or otherwise refuses to accept the Notice, or if the Notice cannot be delivered because of a change in address for which no Notice was given, then upon the rejection, refusal, or inability to deliver.

Section 15. Compliance with Laws

Contractor shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of this Agreement, including, without limitation, Worker's Compensation laws, minimum and maximum salary and wage statutes and regulations, licensing laws and regulations. When required by County, Contractor shall furnish County with certification of compliance with said laws, statutes, ordinances, rules, regulations, orders, and decrees above specified.

Section 16. Performance Warranty

- A. Contractor warrants to County that Contractor has the skill and knowledge ordinarily possessed by well-informed members of its trade or profession practicing in the greater Houston metropolitan area and Contractor will apply that skill and knowledge with care and diligence to ensure that the Services provided hereunder will be performed and delivered in accordance with the highest professional standards.
- B. Contractor warrants to County that the Services will be free from material errors and will materially conform to all requirements and specifications contained in the attached Exhibit A; and in accordance with the requirements of RFP 22-053.

Section 17. Assignment and Delegation

- A. Neither party may assign any of its rights under this Agreement, except with the prior written consent of the other party. That party shall not unreasonably withhold its consent. All assignments of rights are prohibited under this subsection, whether they are voluntarily or involuntarily, by merger, consolidation, dissolution, operation of law, or any other manner.
- B. Neither party may delegate any performance under this Agreement.
- C. Any purported assignment of rights or delegation of performance in violation of this Section is void.
- D. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of the County.

Section 18. Applicable Law

The laws of the State of Texas govern all disputes arising out of or relating to this Agreement. The Parties hereto acknowledge that venue is proper in Fort Bend County, Texas, for all legal actions or proceedings arising out of or relating to this Agreement and waive the right to sue or be sued elsewhere. Nothing in the Agreement shall be construed to waive the County's sovereign immunity. County does not agree to submit disputes arising out of the Agreement to binding arbitration. Therefore, any references to binding arbitration or the waiver of a right to litigate a dispute are hereby deleted. County does not agree to pay any and/or all attorney fees incurred by Contractor in any way associated with the Agreement

Section 19. Successors and Assigns

County and Contractor bind themselves and their successors, executors, administrators and assigns to the other party of this Agreement and to the successors, executors, administrators and assigns of the other party, in respect to all covenants of this Agreement.

Section 20. Third Party Beneficiaries

This Agreement does not confer any enforceable rights or remedies upon any person other than the Parties.

Section 21. Severability

If any provision of this Agreement is determined to be invalid, illegal, or unenforceable, the remaining provisions remain in full force, if the essential terms and conditions of this Agreement for each party remain valid, binding, and enforceable.

Section 22. Publicity

Contact with citizens of Fort Bend County, media outlets, or governmental agencies shall be the sole responsibility of County. Under no circumstances whatsoever, shall Contractor release any material or information developed or received in the performance of the Services hereunder without the express written permission of County, except where required to do so by law.

Section 23. Certain State Law Requirements for Contracts

The Contents of this Section are required by Texas law and are included by County regarding of content.

- a. Unless affirmatively declared by the United States government to be excluded from its federal sanctions regime relating to Sudan or Iran or any federal sanctions regime relating to a foreign terrorist organization, is not identified on a list prepared and maintained by

the Texas Comptroller of Public Accounts under Section 806.051, 807.051, or 2252.153 of the Texas Government Code.

- b. If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Contractor does not boycott Israel and is authorized to agree in such contracts not to boycott Israel during the term of such contracts. "Boycott Israel" has the meaning provided in § 808.001 of the Texas Government Code.
- c. If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Contractor does not boycott energy companies and is authorized to agree in such contracts not to boycott energy companies during the term of such contracts. "Boycott energy company" has the meaning provided in § 809.001 of the Texas Government Code.
- d. If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Contractor does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association and is authorized to agree in such contracts not to discriminate against a firearm entity or firearm trade association during the term of such contracts. "Discriminate against a firearm entity or firearm trade association" has the meaning provided in § 2274.001(3) of the Texas Government Code. "Firearm entity" and "firearm trade association" have the meanings provided in § 2274.001(6) and (7) of the Texas Government Code.

Section 24. Human Trafficking

By signature below, Contractor acknowledges that Fort Bend County is opposed to human trafficking and that no County Funds will be used in support of services or activities that violate human trafficking laws.

Section 25. Federal Clauses

Contractor understands and acknowledges that this Agreement may be totally or partially funded with federal and or state funds as stated in the Statement of Grant Award attached hereto as Exhibit "C", and incorporated fully by reference. **As a condition of receiving these funds, Contractor represents that it is and will remain in compliance with all federal and/or state terms as specifically stated in Exhibit I – Federal Clauses of RFP 22-053, attached within Exhibit B, and fully incorporated by reference as if recited verbatim herein; and that it is and will remain in compliance with all federal and/or state terms as specifically stated in Office of the Governor Public Safety Office Homeland Security Grants Division Fund Specific Grant Conditions, attached as Exhibit "D", and fully incorporated by reference as if recited verbatim herein.** These terms flow down to all third party contractors and their subcontracts at every tier that exceed the simplified acquisition threshold, unless a particular award term or condition specifically indicates otherwise. The Contractor shall require that these clauses shall be included in each covered transaction at any tier.

Section 26. Dispute Resolution

- 26.1. The Parties shall attempt in good faith to resolve promptly any dispute arising out of or relating to this Agreement by negotiation between the Parties. In the event the dispute cannot be settled through negotiation, the Parties agree to submit the dispute to non-binding mediation.
- 26.2. The party requesting mediation shall notify the other party in writing of the dispute desired to be mediated. If the Parties are unable to resolve their differences within ten (10) days of the receipt of such notice, such dispute shall be submitted for mediation.
- 26.3. Each party shall be responsible for its own costs associated with the mediation.
- 26.4. The requirement to seek mediation shall be a condition required before filing an action at law or in equity, unless to do so would prevent either party from seeking relief in a court of law or equity under any applicable statute of limitations.
- 26.5. Contractor acknowledges that County is subject to the requirements of the Texas Open Meetings Act, TEX. GOV'T CODE ANN. §§ 551.001 *et seq.*, as amended, and notwithstanding any provision in the Agreement to the contrary, the County will comply with the provisions of the Open Meetings Act.

Section 27. Captions

The section captions used in this Agreement are for convenience of reference only and do not affect the interpretation or construction of this Agreement.

Section 28. Conflict

In the event there is a conflict between this Agreement and the attached exhibit(s), this Agreement controls to the extent of the conflict.

Section 29. Further Assurances

Each party further agrees that it shall take any and all necessary steps and sign and execute any and all necessary documents or agreements required to implement the terms of the agreement of the parties contained in this contract, and each party agrees to refrain from taking any action, either expressly or impliedly, which would have the effect to prohibiting or hindering the performance of the other party to this Agreement.

{EXECUTION PAGE FOLLOWS}

IN WITNESS WHEREOF, this Agreement is signed, accepted, and agreed to by all Parties by and through the Parties or their agents or authorized representatives. All Parties hereby acknowledge that they have read and understood this Agreement and the attachments and exhibits hereto. All Parties further acknowledge that they have executed this legal document voluntarily and of their own free will. This Agreement is effective upon full execution by all Parties.

FORT BEND COUNTY

SIDDONS-MARTIN EMERGENCY GROUP, LLC

KP George, County Judge



Authorized Agent – Signature

Date

Kirk Givler

Authorized Agent- Printed Name

ATTEST:

Vice President of Sales

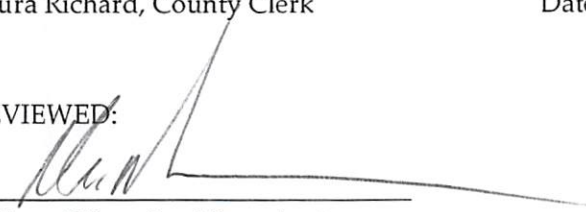
Title

Laura Richard, County Clerk

4/20/2022

Date

REVIEWED:



Office of Homeland Security &
Emergency Management

AUDITOR'S CERTIFICATE

I hereby certify that funds are available in the amount of \$ 650,000.00 to accomplish and pay the obligation of Fort Bend County under this contract.

Robert Edward Sturdivant, County Auditor

Exhibit A (Scope of Services): Contractor's Proposal to Fort Bend County OEM (dated April 6, 2022), Option List, and Quote (Quote # - SMEG-0003513-3);
Exhibit B: RFP 22-053, including Addendum No. 1 to RFP 22-053;
Exhibit C: Statement of Grant Award; and
Exhibit D: Office of the Governor Public Safety Office Homeland Security Grants Division Fund Specific Grant Conditions

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EXHIBIT A

Proposal for **Fort Bend County OEM**

Prepared by **Cory Frankum**

Siddons-Martin Emergency Group

04/06/2022



PERFORM. LIKE NO OTHER.™

Pierce Saber HDR 38037

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SINGLE SOURCE MANUFACTURER

Pierce Manufacturing, Inc. provides an integrated approach to the design and manufacture of our products that delivers superior apparatus and a dedicated support team. From our facilities, the chassis, cab weldment, cab, pumphouse (including the sheet metal enclosure, valve controls, piping and operators panel) and body will be entirely designed, tested, and hand assembled to the customer's exact specifications. The electrical system either hardwired or multiplexed, will be both designed and integrated by Pierce Manufacturing. The warranties relative to these major components (excluding component warranties such as engine, transmission, axles, pump, etc.) will be provided by Pierce as a single source manufacturer. Pierce's single source solution adds value by providing a fully engineered product that offers durability, reliability, maintainability, performance, and a high level of quality.

Your apparatus will be manufactured in Bradenton, Florida.

COMPARISON REPORT

A report will be provided to allow the Sales Representative to compare the options to a previous job. The report will be provided for job 37964.

NFPA 2016 STANDARDS

This unit will comply with the NFPA standards effective January 1, 2016, except for fire department directed exceptions. These exceptions will be set forth in the Statement of Exceptions.

Certification of slip resistance of all stepping, standing and walking surfaces will be supplied with delivery of the apparatus.

All horizontal surfaces designated as a standing or walking surface that are greater than 48.00" above the ground must be defined by a 1.00" wide line along its outside perimeter. Perimeter markings and designated access paths to destination points will be identified on the customer approval print and are shown as approximate. Actual location(s) will be determined based on materials used and actual conditions at final build. Access paths may pass through hose storage areas and opening or removal of covers or restraints may be required. Access paths may require the operation of devices and equipment such as the aerial device or ladder rack.

A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating.

The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications.

An official of the company will designate, in writing, who is qualified to witness and certify test results.

NFPA COMPLIANCY

Apparatus proposed by the bidder will meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in the current edition at time of contract execution. Fire Department's specifications that differ from NFPA specifications will be indicated in the proposal as "non-NFPA."

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GENERATOR TEST

If the unit has a generator, the generator will be tested, approved, and certified by an ISO certified independent third party testing agency at the manufacturer's expense. The test results will be provided to the Fire Department at the time of delivery.

BREATHING AIR TEST

If the unit has breathing air, the apparatus manufacturer will draw an air sample from the air system and certify that the air quality meets the requirements of NFPA 1989, *Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection*.

BID BOND NOT REQUESTED

A bid bond will not be included. If requested, the following will apply:

All bidders will provide a bid bond as security for the bid in the form of a 5% bid bond to accompany their bid. This bid bond will be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond will be issued by an authorized representative of the Surety Company and will be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond will include language, which assures that the bidder/principal will give a bond or bonds as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract.

Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision will prevail.

PERFORMANCE BOND NOT REQUESTED

A performance bond will not be included. If requested at a later date, one will be provided to you for an additional cost and the following will apply:

The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond will be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required.

Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Bumper to Bumper warranty period included within this proposal. Owner agrees that the penal amount of this bond will be simultaneously amended to 25 percent of the total contract amount upon satisfactory acceptance and delivery of the

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vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type will not exceed three (3) years from the date of such satisfactory acceptance and delivery, or the actual Bumper to Bumper warranty period, whichever is shorter.

APPROVAL DRAWING

A drawing of the proposed apparatus will be prepared and provided to the purchaser for approval before construction begins. The Pierce sales representative will also be provided with a copy of the same drawing. The finalized and approved drawing will become part of the contract documents. This drawing will indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc.

A "revised" approval drawing of the apparatus will be prepared and submitted by Pierce to the purchaser showing any changes made to the approval drawing.

ELECTRICAL WIRING DIAGRAMS

Two (2) electrical wiring diagrams, prepared for the model of chassis and body, will be provided.

SABER FR CHASSIS

The Pierce Saber FR® is the custom chassis developed exclusively for the fire service. Chassis provided will be a new, tilt-type custom fire apparatus. The chassis will be manufactured in the apparatus body builder's facility eliminating any split responsibility. The chassis will be designed and manufactured for heavy-duty service, with adequate strength, capacity for the intended load to be sustained, and the type of service required. The chassis will be the manufacturer's first line tilt cab.

WHEELBASE

The wheelbase of the vehicle will be 208.00".

GVW RATING

The gross vehicle weight rating will be 42,000.

FRAME

The chassis frame will be built with two (2) steel channels bolted to five (5) cross members or more, depending on other options of the apparatus. The side rails will be heat-treated steel measuring 10.25" x 3.50" x 0.375".

Each rail will have a section modulus of 16.00 cubic inches, yield strength of 120,000 psi, and a resisting bending moment (rbm) of 1,921,069 inch-pounds.

FRAME REINFORCEMENT

A full-length mainframe "C" liner will be provided.

The liner will be an internal "C" design, heat-treated steel measuring 9.38" x 3.13" x 0.25". Each reinforcement member will have a section modulus of 3.90 cubic inches, yield strength of 120,000 psi and resisting bending moment (rbm) of 938,762 in-lb.

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FRONT AXLE

The front axle will be a reverse "I" beam type with inclined king pins. It will be a Dana axle, Model D-2000F, with a rated capacity of 18,000 lb.

FRONT SUSPENSION

The front springs will be a Standens, three (3)-leaf, taper leaf design, 54.00" long x 4.00" wide, with a ground rating of 18,000 lb.

The two (2) top leaves will wrap the forward spring hanger pin. The top leaf will also wrap the rear spring hanger pin. Both the front and rear eyes will be Berlin style wraps that will place the eyes in the horizontal plane within the main leaf. This will reduce bending stress from acceleration and braking.

A steel encased rubber bushing will be used in the spring eye. The steel encased rubber bushing will be maintenance free and require no lubrication.

SHOCK ABSORBERS

To provide a smoother ride, the front axle will be furnished with heavy-duty telescoping shock absorbers.

FRONT OIL SEALS

Oil seals with viewing window will be provided on the front axle.

FRONT TIRES

Front tires will be Goodyear® 315/80R22.50 radials, 20 ply G289 WHA tread, rated for 20,400 lb maximum axle load and 68 mph maximum speed.

The tires will be mounted on Alcoa 22.50" x 9.00" polished aluminum disc wheels with a ten (10) stud, 11.25" bolt circle.

REAR AXLE

The rear axle will be a Dana Model S23-190, single axle assembly with a capacity of 24,000 lb.

TOP SPEED OF VEHICLE

A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 68 mph.

REAR SUSPENSION

The rear suspension will be Standens, semi-elliptical, 3.00" wide x 53.00" long, 12-leaf pack with a ground rating of 24,000 lb. The spring hangers will be castings.

The two (2) top leaves will wrap the forward spring hanger pin, and the rear of the spring will be a slipper style end that will ride in a rear slipper hanger. To reduce bending stress due to acceleration and braking, the front eye will be a berlin eye that will place the front spring pin in the horizontal plane within the main leaf.

A steel encased rubber bushing will be used in the spring eye. The steel encased rubber bushing will be maintenance free and require no lubrication.

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REAR OIL SEALS

Oil seals will be provided on the rear axle(s).

REAR TIRES

Rear tires will be four (4) Goodyear® 12R22.50 radials, 16 ply all season G622 RSD tread, rated for 27,120 lb maximum axle load and 75 mph maximum speed.

The tires will be mounted on Alcoa 22.50" x 8.25" polished aluminum disc wheels with a ten (10) stud 11.25" bolt circle.

TIRE BALANCE

All tires will be balanced with Counteract balancing beads. The beads will be inserted into the tire and eliminate the need for wheel weights.

TIRE PRESSURE MANAGEMENT

There will be a RealWheels LED AirSecure™ tire alert pressure management system provided, that will monitor each tire's pressure. A sensor will be provided on the valve stem of each tire for a total of six (6) tires.

The sensor will calibrate to the tire pressure when installed on the valve stem for pressures between 10 and 200 psi. The sensor will activate an integral battery operated LED when the pressure of that tire drops 5 to 8 psi.

Removing the cap from the sensor will indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED will immediately start to flash.

FRONT HUB COVERS

Stainless steel hub covers will be provided on the front axle. An oil level viewing window will be provided.

REAR HUB COVERS

A pair of stainless steel high hat hub covers will be provided on rear axle hubs.

CHROME LUG NUT COVERS

Chrome lug nut covers will be supplied on front and rear wheels.

MUD FLAPS

Mud flaps with a Pierce logo will be installed behind the front and rear wheels.

WHEEL CHOCKS

There will be one (1) pair of folding Ziamatic, Model SAC-44-E, aluminum alloy, Quick-Choc wheel blocks, with easy-grip handle provided.

Wheel Chock Brackets

There will be one (1) pair of Zico, Model SQCH-44-H, horizontal mounting wheel chock brackets provided for the Ziamatic, Model SAC-44-E, folding wheel chocks. The brackets will be made of aluminum and consist of a quick release spring loaded rod to hold the wheel chocks in place. The brackets will be mounted forward of the left side rear tire.

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ANTI-LOCK BRAKE SYSTEM

The vehicle will be equipped with a Meritor WABCO 4S4M, anti-lock braking system. The ABS will provide a 4-channel anti-lock braking control on both the front and rear wheels. A digitally controlled system that utilizes microprocessor technology will control the anti-lock braking system. Each wheel will be monitored by the system. When any particular wheel begins to lockup, a signal will be sent to the control unit. This control unit then will reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control.

BRAKES

The service brake system will be full air type by Bendix®.

Front brakes will be Model ADB22X™, disc type with automatic pad wear adjustment and 17.00" rotors for improved stopping distance.

The rear brakes will be Bendix®, Model ES1657D, 16.50" x 7.00" cam operated with automatic slack adjusters.

BRAKE SYSTEM AIR COMPRESSOR

The air compressor will be a Cummins/WABCO with 18.7 cubic feet per minute output.

BRAKE SYSTEM

The brake system will include:

- Brake treadle valve
- Heated automatic moisture ejector on air dryer
- Total air system minimum capacity of 4,272 cubic inches
- Two (2) air pressure gauges with a red warning light and an audible alarm, that activates when air pressure falls below 60 psi
- Spring set parking brake system
- Parking brake operated by a push-pull style control valve
- A parking "brake on" indicator light on instrument panel
- Park brake relay/inversion and anti-compounding valve, in conjunction with a double check valve system, with an automatic spring brake application at 40 psi
- A pressure protection valve to prevent all air operated accessories from drawing air from the air system when the system pressure drops below 80 psi (550 kPa)
- 1/4 turn drain valves on each air tank

The air tank will be primed and painted to meet a minimum 750 hour salt spray test.

To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.

BRAKE SYSTEM AIR DRYER

The air dryer will be a WABCO System Saver 1200 IWT, with internal wet tank, spin-on coalescing filter cartridge and 100 watt heater.

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BRAKE LINES

Color-coded nylon brake lines will be provided. The lines will be wrapped in a heat protective loom in the chassis areas that are subject to excessive heat.

AIR INLET

One (1) air inlet with 3D series male coupling will be provided. It will allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet will be located forward in the driver side lower step well of cab. A check valve will be provided to prevent reverse flow of air. The inlet will discharge into the "wet" tank of the brake system. A mating female fitting will also be provided with the loose equipment.

ENGINE

The chassis will be powered by an electronically controlled engine as described below:

Make:	Cummins
Model:	L9
Power:	380 hp at 2000 rpm
Torque:	1150 lb-ft at 1400 rpm
Governed Speed:	2200 rpm
Emissions Level:	EPA 2021
Fuel:	Diesel
Cylinders:	Six (6)
Displacement:	543 cubic inches (8.9L)
Starter:	Delco Remy 39MT™
Fuel Filters:	Spin-on style primary filter with water separator and water-in-fuel sensor. Secondary spin-on style filter.

The engine will include On-board diagnostics (OBD), which provides self diagnostic and reporting. The system will give the owner or repair technician access to state of health information for various vehicle sub systems. The system will monitor vehicle systems, engine and after treatment. The system will illuminate a malfunction indicator light on the dash console if a problem is detected.

HIGH IDLE

A high idle switch will be provided, inside the cab, on the instrument panel, that will automatically maintain a preset engine rpm. A switch will be installed, at the cab instrument panel, for activation/deactivation.

The high idle will be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light will be provided, adjacent to the switch. The light will illuminate when the above conditions are met. The light will be labeled "OK to Engage High Idle."

ENGINE BRAKE

A Jacobs® engine brake is to be installed with the controls located on the instrument panel within easy reach of the driver.

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The driver will be able to turn the engine brake system on/off and have a high, medium and low setting.

The engine brake will activate when the system is on and the throttle is released.

The high setting of the brake application will activate and work simultaneously with the variable geometry turbo (VGT) provided on the engine.

The engine brake will be installed in such a manner that when the engine brake is slowing the vehicle the brake lights are activated.

The ABS system will automatically disengage the auxiliary braking device, when required.

CLUTCH FAN

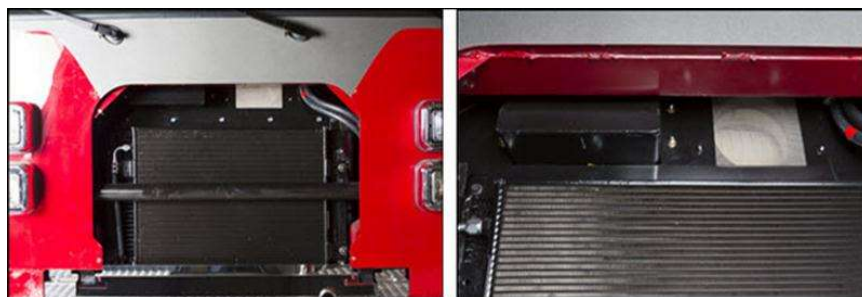
A fan clutch will be provided. The fan clutch will be automatic when the pump transmission is in "Road" position, and constantly engaged when in "Pump" position.

ENGINE AIR INTAKE

The engine air intake will be located above the engine cooling package. It will draw fresh air from the front of the apparatus through the radiator grille.

A stainless steel metal screen will be installed at the inlet of the air intake system that will meet NFPA 1901 requirements.

The air cleaner and stainless steel screen will be easily accessible by tilting the cab.

**EXHAUST SYSTEM**

The exhaust system will be stainless steel from the turbo to the engine's aftertreatment device, and will be 4.00" in diameter. The exhaust system will include a single module aftertreatment device to meet current EPA standards. An insulation wrap will be provided on all exhaust pipes between the turbo and aftertreatment device to minimize the heat loss to the aftertreatment device. The exhaust will terminate horizontally ahead of the right side rear wheels. A tailpipe diffuser will be provided to reduce the temperature of the exhaust as it exits. Heat deflector shields will be provided to isolate chassis and body components from the heat of the tailpipe diffuser.

RADIATOR

The radiator and the complete cooling system will meet or exceed NFPA and engine manufacturer cooling system standards.

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For maximum corrosion resistance and cooling performance, the entire radiator core will be constructed using long life aluminum alloy. The radiator core will consist of aluminum fins, having a serpentine design, brazed to aluminum tubes.

The radiator core will have a minimum front area of 1060 square inches.

Supply tank will be made of heavy duty glass-reinforced nylon and the return tank will be made of aluminum. Both tanks will be crimped onto the core assembly using header tabs and a compression gasket to complete the radiator core assembly. There will be a full steel frame around the inserts to enhance cooling system durability and reliability.

The radiator will be compatible with commercial antifreeze solutions.

The radiator assembly will be isolated from the chassis frame rails with rubber isolators to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven terrain.

The radiator will include a de-aeration/expansion tank. For visual coolant level inspection, the radiator will have a built-in sight glass. The radiator will be equipped with a 15 psi pressure relief cap.

A drain port will be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system.

Shields or baffles will be provided to prevent recirculation of hot air to the inlet side of the radiator.

COOLANT LINES

Gates, or Goodyear, rubber hose will be used for all engine coolant lines installed by Pierce Manufacturing.

Hose clamps will be stainless steel constant torque type to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.

FUEL TANK

A 65 gallon fuel tank will be provided and mounted at the rear of the chassis. The tank will be constructed of 12-gauge, hot rolled steel. It will be equipped with swash partitions and a vent. To eliminate the effects of corrosion, the fuel tank will be mounted with stainless steel straps.

A 0.75" drain plug will be located in a low point of the tank for drainage.

A fill inlet will be located on the left hand side of the body and is covered with a hinged, spring loaded, stainless steel door that is marked "Ultra Low Sulfur - Diesel Fuel Only."

A 0.50" diameter vent will be installed from tank top to just below fuel fill inlet.

The fuel tank will meet all FHWA 393.67 requirements including a fill capacity of 95 percent of tank volume.

All fuel lines will be provided as recommended by the engine manufacturer.

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DIESEL EXHAUST FLUID TANK

A 4.5 gallon diesel exhaust fluid (DEF) tank will be provided and mounted in the driver's side body rearward of the rear axle.

A 0.50" drain plug will be provided in a low point of the tank for drainage.

A fill inlet will be provided and marked "Diesel Exhaust Fluid Only". The fill inlet will be located adjacent to the engine fuel inlet behind a common hinged, spring loaded, polished stainless steel door on the driver side of the vehicle.

The tank will meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing.

The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.

FUEL PRIMING PUMP

A Cummins automatic electronic fuel priming pump will be integrated as part of the engine.

TRANSMISSION

An Allison 5th generation, Model EVS 3000P, electronic torque converting automatic transmission will be provided.

The transmission will be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display will indicate when service is due.

Two (2) PTO openings will be located on both sides of converter housing (positions 4 o'clock and 8 o'clock) as viewed from the rear.

A transmission temperature gauge with red light and audible alarm will be installed on the cab dash.

TRANSMISSION SHIFTER

A five (5)-speed push button shift module will be mounted to right of driver on console. Shift position indicator will be indirectly lit for after dark operation.

The transmission ratio will be:

1st	3.49 to 1.00
2nd	1.86 to 1.00
3rd	1.41 to 1.00
4th	1.00 to 1.00
5th	0.75 to 1.00
R	5.03 to 1.00

TRANSMISSION COOLER

A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.

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DRIVELINE

Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1710 universal joints.

The shafts will be dynamically balanced before installation.

A splined slip joint will be provided in each driveshaft where the driveline design requires it. The slip joint will be coated with Glidecoat® or equivalent.

STEERING

Steering gear will be provided with integral heavy-duty power steering. For reduced system temperatures, the power steering will incorporate an air to oil cooler and Vickers® V20NF hydraulic pump with integral pressure and flow control. All power steering lines will have wire braded lines with crimped fittings.

A tilt and telescopic steering column will be provided to improve fit for a broader range of driver configurations.

STEERING WHEEL

The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a 4-spoke design.

WINCH

A Warn, multi-mount, 9,000 lb portable 12V electric winch will be provided.

The winch will mount to the vehicle receiver hitch and be held in place with a locking hardened pin.

The winch will be provided with 125 feet of .313" galvanized cable with a replaceable clevis hook.

A minimum of a 30' remote control will be provided.

A label will be placed on or near the receiver that states the maximum winch load rating and the maximum rope load rating that the receiver can support.

BUMPER

A one (1) piece, ten (10) gauge, 304-2B type polished stainless steel bumper, a minimum of 10.00" high, will be attached to a bolted modular extension frame constructed of 50,000 psi tensile steel "C" channel mounted directly behind it to provide adequate support strength.

The bumper will be extended 22.00" from front face of cab.

Gravel Pan

A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and cab face. The gravel pan will be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate.

RIGHT SIDE TOOL BOX

The front bumper extension will have an aluminum tool/chain box installed on the right side. The box will be raised 1.50" above the gravel pan.

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Tool Box Cover

A bright aluminum treadplate cover will be provided.

The cover will be attached with a stainless steel hinge.

A single D-ring latch will secure the cover in the closed position and a pneumatic stay arm will hold the cover in the open position.

TOW HOOKS

Two (2) chromed steel tow hooks will be installed under the bumper and attached to the front frame members. The tow hooks will be designed and positioned to allow up to a 6,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow hooks will not be used for lifting of the apparatus.

PORTABLE WINCH STORAGE WITH HINGED CENTER SECTION

A tray for a portable winch, constructed of aluminum, will be placed in the center of the bumper extension.

The tray will be enclosed to protect the winch from weather. A raised aluminum treadplate cover will be made as high as necessary to enclose the winch. The lower section of winch compartment will be enclosed, to prevent road salt, snow, and ice from entering the winch compartment.

Drain holes will be provided.

The center section of the bumper will be hinged at the bottom to allow access to the winch. Two (2) pawl latches will hold the center section in the closed position.

A portable winch receiver will be installed in the back of the tray. The winch receiver will be constructed of heavy steel tubing and reinforced to the bumper extension framework for the receiving portion. The receiver will have a 2.00" inside dimension, with a maximum weight rating of 9,000 pounds.

The assembly will be designed to allow the winch to be stored and used from the tray.

CAB

The cab will be designed specifically for the fire service and manufactured by the chassis builder.

The cab will be built by the apparatus manufacturer in a facility located on the manufacturer's premises.

For reasons of structural integrity and enhanced occupant protection, the cab will be a heavy duty design, constructed to the following minimal standards.

The cab will have 12 main vertical structural members located in the A-pillar (front cab corner posts), B-pillar (side center posts), C-pillar (rear corner posts), and rear wall areas. The A-pillar will be constructed of solid A356-T5 aluminum castings. The B-pillar and C-pillar will be constructed from 0.13" wall extrusions. The rear wall will be constructed of two (2) 2.00" x 2.00" outer aluminum extrusions and two (2) 2.00" x 1.00" inner aluminum extrusions. All main vertical structural members will run from the floor to 4.625" x 3.864" x 0.090" thick roof extrusions to provide a cage-like structure with the A-pillar and roof extrusions being welded into a 0.25" thick corner casting at each of the front corners of the roof assembly.

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The front of the cab will be constructed of a 0.13" firewall plate, covered with a 0.090" front skin (for a total thickness of 0.22"), and reinforced with a full width x 0.50" thick cross-cab support located just below the windshield and fully welded to the engine tunnel. The cross-cab support will run the full width of the cab and weld to each A-pillar, the 0.13" firewall plate, and the front skin.



The cab floors will be constructed of 0.125" thick aluminum plate and reinforced at the firewall with an additional 0.25" thick cross-floor support providing a total thickness of 0.375" of structural material at the front floor area. The front floor area will also be supported with two (2) triangular 0.30" wall extrusions that also provides the mounting point for the cab lift. This tubing will run from the floor wireway of the cab to the engine tunnel side plates, creating the structure to support the forces created when lifting the cab.

The cab will be 96.00" wide (outside door skin to outside door skin) to maintain maximum maneuverability.

The forward cab section will have an overall height (from the cab roof to the ground) of approximately 99.00". The crew cab section will have a 10.00" raised roof, with an overall cab height of approximately 109.00". The overall height listed will be calculated based on a truck configuration with the lowest suspension weight rating, the smallest diameter tires for the suspension, no water weight, no loose equipment weight, and no personnel weight. Larger tires, wheels, and suspension will increase the overall height listed.

The floor to ceiling height inside the crew cab will be 64.50" in the center and outboard positions.

The crew cab floor will measure 46.00" from the rear wall to the front of the rear facing seat risers.

The engine tunnel, at the rearward highest point (knee level), will measure 61.50" to the rear wall.

The crew cab will be a totally enclosed design with the interior area completely open to improve visibility and verbal communication between the occupants.

The cab will be a full tilt cab style.

A 3-point cab mount system with rubber isolators will improve ride quality by isolating chassis vibrations from the cab.

CAB ROOF DRIP RAIL

For enhanced protection from inclement weather, a drip rail will be furnished on the sides of the cab. The drip rail will be painted to match the cab roof, and bonded to the sides of the cab. The drip rail will extend the full length of the cab roof.

INTERIOR CAB INSULATION

The cab will include 1.00" insulation in the ceiling, 1.50" insulation in the side walls, and 2.00" insulation in the rear wall to maximize acoustic absorption and thermal insulation.

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FENDER LINERS

Full circular inner fender liners in the wheel wells will be provided.

PANORAMIC WINDSHIELD

A 1-piece safety glass windshield will be provided with over 2,775 square inches of clear viewing area. The windshield will be full width and will provide the occupants with a panoramic view. The windshield will consist of three (3) layers: outer light, middle safety laminate, and inner light. The outer light layer will provide superior chip resistance. The middle safety laminate layer will prevent the windshield glass pieces from detaching in the event of breakage. The inner light will provide yet another chip resistant layer. The cab windshield will be bonded to the aluminum windshield frame using a urethane adhesive. A custom frit pattern will be applied on the outside perimeter of the windshield for a finished automotive appearance.

**WINDSHIELD WIPERS**

Three (3) electric windshield wipers with washer will be provided that meet FMVSS and SAE requirements.

The washer reservoir will be able to be filled without raising the cab.

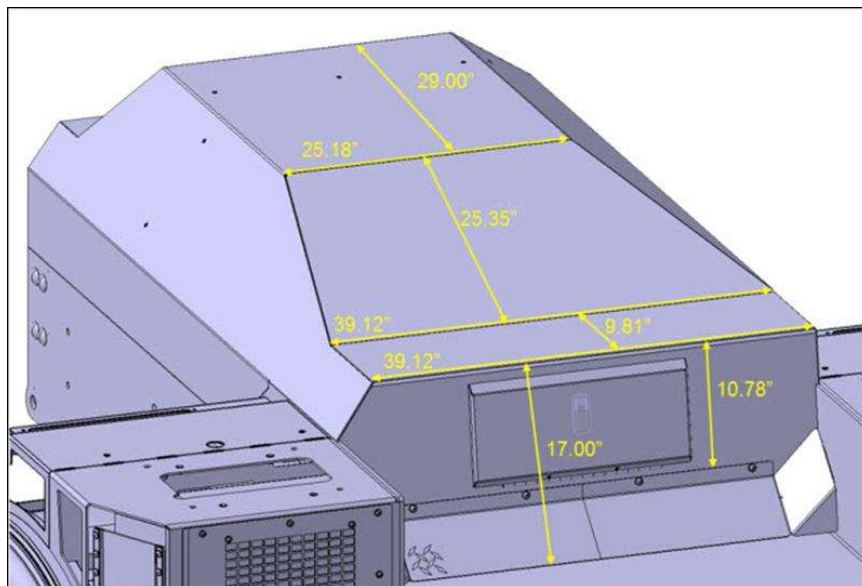
**ENGINE TUNNEL**

Engine hood side walls will be constructed of 0.375" aluminum. The top will be constructed of 0.125" aluminum and will be tapered at the top to allow for more driver and passenger elbow room.

The engine hood will be insulated for protection from heat and sound. The noise insulation keeps the dBA level within the limits stated in the current NFPA 1901 standards.

The engine tunnel will be no higher than 17.00" off the crew cab floor.

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**INTERIOR CREW CAB REAR WALL ADJUSTABLE SEATING (PATENT PENDING)**

The interior rear wall of the crew cab will have mounting holes every 2.75" to allow for adjustability of the forward facing crew cab seating along the rear wall. Seats will be adjustable with use of simple hand tools allowing departments flexibility of their seating arrangement should their department needs change.

**CAB REAR WALL EXTERIOR COVERING**

The exterior surface of the rear wall of the cab will be painted job color.

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CAB LIFT

A hydraulic cab lift system will be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves.

Lift controls will be located on the right side pump panel or front area of the body in a convenient location.

The cab will be capable of tilting 43 degrees to accommodate engine maintenance and removal.

The cab will be locked down by a 2-point normally closed spring loaded hook type latch that fully engages after the cab has been lowered. The system will be hydraulically actuated to release the normally closed locks when the cab lift control is in the raised position and cab lift system is under pressure. When the cab is completely lowered and system pressure has been relieved, the spring loaded latch mechanisms will return to the normally closed and locked position.

The hydraulic cylinders will be equipped with a velocity fuse that protects the cab from accidentally descending when the control is located in the tilt position.

For increased safety, a redundant mechanical stay arm will be provided that must be manually put in place on the left side between the chassis and cab frame when the cab is in the raised position. This device will be manually stowed to its original position before the cab can be lowered.

Cab Lift Interlock

The cab lift system will be interlocked to the parking brake. The cab tilt mechanism will be active only when the parking brake is set and the ignition switch is in the on position. If the parking brake is released, the cab tilt mechanism will be disabled.

GRILLE

A single piece polished stainless steel grille and framework will be provided on the front center of the cab.

TRIM BAND ON CAB FACE

A band of 22 gauge patterned stainless steel trim will be installed across the front of the cab, from door hinge to door hinge. The trim band will be centered on the headlights and applied with two-sided tape. A 0.625" self-adhesive trim strip will be applied around the perimeter of the trim band.

SIDE OF CAB MOLDING

Chrome molding will be provided on both sides of cab.

MIRRORS

A Retractable, dual vision, motorized, west coast style mirror, with chrome finish, will be mounted on each side of the front cab door with spring loaded retractable arms. The flat glass and convex glass will be heated and adjustable with remote control within reach of the driver.



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An amber marker light will be provided on each mirror head.

DOORS

To enhance entry and egress to the cab, the forward cab door openings will be a minimum of 37.50" wide x 63.37" high. The crew cab doors will be located on the sides of the cab and will be constructed in the same manner as the forward cab doors. The crew cab door openings will be a minimum of 34.30" wide x 73.25" high.

The forward cab and crew cab doors will be constructed of extruded aluminum with a nominal material thickness of 0.093". The exterior door skins will be constructed from 0.090" aluminum.

A customized, vertical, pull-down type door handle will be provided on the exterior of each cab door. The finish of the door handle shall be chrome/black. The exterior handle will be designed specifically for the fire service to prevent accidental activation, and will provide 4.00" wide x 2.00" deep hand clearance for ease of use with heavy gloved hands.



[Exterior Door Handle]

Each door will also be provided with an interior flush, open style paddle handle that will be readily operable from fore and aft positions, and be designed to prevent accidental activation. The interior handles will provide 4.00" wide x 1.25" deep hand clearance for ease of use with heavy gloved hands.

The cab doors will be provided with both interior (rotary knob) and exterior (keyed) locks exceeding FMVSS standards. The keys will be Model 751. The locks will be capable of activating when the doors are open or closed. The doors will remain locked if locks are activated when the doors are opened, then closed.



[Interior Door Handle]

A full length, heavy duty, stainless steel, piano-type hinge with a 0.38" pin and 11 gauge leaf will be provided on all cab doors. There will be double automotive-type rubber seals around the perimeter of the door framing and door edges to ensure a weather-tight fit.

A chrome grab handle will be provided on the inside of each cab door for ease of entry.

A red webbed grab handle will be installed on the crew cab door stop strap. The grab handles will be securely mounted.

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The bottom cab step at each cab door location will be located below the cab doors and will be exposed to the exterior of the cab.

Door Panels

The inner cab door panels will be constructed out of brushed stainless steel.

ELECTRIC OPERATED CAB DOOR WINDOWS

All four (4) cab doors will be equipped with electric operated windows with one (1) flush mounted automotive style switch on each door. The driver's door will have four (4) switches, one (1) to control each door window.

Each switch will allow intermittent or auto down operation for ease of use. Auto down operation will be actuated by holding the window down switch for approximately 1 second.

CAB STEPS

The forward cab and crew cab access steps will be a full size two (2) step design to provide largest possible stepping surfaces for safe ingress and egress. The bottom steps will be designed with a grip pattern punched into bright aluminum treadplate material to provide support, slip resistance, and drainage. The bottom steps will be a bolt-in design to minimize repair costs should they need to be replaced. The forward cab steps will be a minimum 25.00" wide, and the crew cab steps will be 21.65" wide with a 10.00" minimum depth. The inside cab steps will not exceed 16.50" in height.

The vertical surfaces of the step well will be aluminum treadplate.

CAB EXTERIOR HANDRAILS

A 1.25" diameter slip-resistant, knurled aluminum handrail will be provided adjacent to each cab and crew cab door opening to assist during cab ingress and egress.

STEP LIGHTS

There will be six (6) white LED step lights with chrome housing installed for cab and crew cab access steps.

- One (1) light for the left access steps.
- Two (2) lights for the left side crew cab access steps.
- Two (2) lights for the right side crew cab access steps.
- One (1) light for the right side access step.

In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.

The lights will be activated when the battery switch is on and the adjacent door is opened.



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FENDER CROWNS

Stainless steel fender crowns will be installed at the cab wheel openings.

CREW CAB WINDOWS

One (1) fixed window with tinted glass will be provided on each side of the cab, to the rear of the front cab door. The windows will be sized to enhance light penetration into the cab interior. The windows will measure 18.70" wide x 23.75" high.

**CAB DASH**

The driver side dash, switch panel located to the right of the driver, and center console will be an easily removable high impact resistant polymer cover.

The instrument gauge cluster will be surrounded with a high impact ABS plastic contoured to the same shape of the instrument gauge cluster.

The officer side dash will be a flat top design with an upper beveled edge to provide easy maintenance and will be constructed out of aluminum and painted to match the cab interior.

MOUNTING PLATE ON ENGINE TUNNEL

Equipment installation provisions will be installed on the engine tunnel.

A .25" smooth aluminum plate will be bolted to the top surface of the engine tunnel. The plate will follow the contour of the engine tunnel and will run the entire length of the engine tunnel. The plate will be spaced off the engine tunnel 1.00" to allow for wire routing below the plate.

The mounting surface will be painted to match the cab interior.

CAB INTERIOR

The cab interior will be constructed of primarily metal (painted aluminum) to withstand the severe duty cycles of the fire service.

The engine tunnel will be padded and covered, on the top and sides, with dark silver gray 36 ounce leather grain vinyl resistant to oil, grease, and mildew.

For durability and ease of maintenance, the cab interior side walls will be painted aluminum. The rear wall will be painted aluminum.

The headliner will be installed in both forward and rear cab sections. Headliner material will be vinyl. A sound barrier will be part of its composition. Material will be installed on an aluminum sheet and securely fastened to interior cab ceiling.

The forward portion of the cab headliner will permit easy access for service of electrical wiring or other maintenance needs.

All wiring will be placed in metal raceways.

CAB INTERIOR UPHOLSTERY

The cab interior upholstery will be 36 oz dark silver gray vinyl.

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CAB INTERIOR PAINT

The cab interior metal surfaces, excluding the rear heater panels, will be painted fire smoke gray, vinyl texture paint.

The rear heater panels will be painted black, vinyl textured paint.

CAB FLOOR

The cab and crew cab floor areas will be covered with Polydamp™ acoustical floor mat consisting of a black pyramid rubber facing and closed cell foam decoupler.

The top surface of the material has a series of raised pyramid shapes evenly spaced, which offer a superior grip surface. Additionally, the material has a 0.25" thick closed cell foam (no water absorption) which offers a sound dampening material for reducing sound levels.

DEFROST/AIR CONDITIONING SYSTEM

A ceiling mounted combination heater, defroster and air conditioning system will be installed in the cab above the engine tunnel area.

Cab Defroster

A 54,000 BTU heater-defroster unit with 690 SCFM of air flow will be provided inside the cab. The heater-defrost will be installed in the forward portion of the cab ceiling. Air outlets will be strategically located in the cab header extrusion per the following:

- One (1) adjustable will be directed towards the left side cab window
- One (1) adjustable will be directed towards the right side cab window
- Six (6) fixed outlets will be directed at the windshield

The defroster will be capable of clearing 98 percent of the windshield and side glass when tested under conditions where the cab has been cold soaked at 0 degrees Fahrenheit for 10 hours, and a 2 ounce per square inch layer of frost/ice has been able to build up on the exterior windshield. The defroster system will meet or exceed SAE J382 requirements.

Cab/Crew Auxiliary Heater

There will be one (1) 31,000 BTU auxiliary heater with 560 SCFM of air flow provided in each outboard rear facing seat risers with a dual scroll blower. An aluminum plenum incorporated into the cab structure used to transfer heat to the forward positions.

Air Conditioning

A condenser will be a 59,644 BTU output that meets and exceeds the performance specification will be mounted on the radiator.

The air conditioning system will be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 75 degrees Fahrenheit at 50 percent relative humidity within 30 minutes. The cooling performance test will be run only after the cab has been heat soaked at 100 degrees Fahrenheit for a minimum of 4 hours.

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The evaporator unit will be installed in the rear portion of the cab ceiling over the engine tunnel. The evaporator will include one (1) high performance heating core, one (1) high performance cooling core with (1) plenum directed to the front and one (1) plenum directed to the rear of the cab.

The evaporator unit will have a 52,000 BTU at 690 SCFM rating that meets and exceeds the performance specifications.

Adjustable air outlets will be strategically located on the forward plenum cover per the following:

- Four (4) will be directed towards the seating position on the left side of the cab
- Four (4) will be directed towards the seating position on the right side of the cab

Adjustable air outlets will be strategically located on the evaporator cover per the following:

- Five (5) will be directed towards crew cab area

A high efficiency particulate air (HEPA) filter will be included for the system. Access to the filter cover will be secured with four (4) screws.

The air conditioner refrigerant will be R-134A and will be installed by a certified technician.

Climate Control

An automotive style controller will be provided to control the heat and air conditioning system within the cab. The controller will have three (3) functional knobs for fan speed, temperature, and air flow distribution (front to rear) control.



The system will control the temperature of the cab and crew cab automatically by pushing the center of the fan speed control knob. Rotate the center temperature control knob to set the cab and crew cab temperature.

The AC system will be manually activated by pushing the center of the temperature control knob. Pushing the center of the air flow distribution knob will engage the AC for max defrost, setting the fan speeds to 100 percent and directing all air flow to the overhead forward position.

The system controller will be located within panel position #12.

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Gravity Drain Tubes

Two (2) condensate drain tubes will be provided for the air conditioning evaporator. The drip pan will have two (2) drain tubes plumbed separately to allow for the condensate to exit the drip pan. No pumps will be provided.

SUN VISORS

Two (2) smoked Lexan™ sun visors will be provided. The sun visors will be located above the windshield with one (1) mounted on each side of the cab.

There will be a black plastic thumb latch provided to help secure each sun visor in the stowed position.

GRAB HANDLES

A black rubber covered grab handle will be mounted on the door post of the driver and officer's side cab door to assist in entering the cab. The grab handles will be securely mounted to the post area between the door and windshield.

**ENGINE COMPARTMENT LIGHTS**

There will be one (1) Whelen, Model 3SC0CDCR, 12 volt DC, 3.00" white LED light(s) with Whelen, Model 3FLANGE, chrome flange kit(s) installed under the cab to be used as engine compartment illumination.

These light(s) will be activated automatically when the cab is raised.

ACCESS TO ENGINE DIPSTICKS

For access to the engine oil and transmission fluid dipsticks, there will be a door on the engine tunnel, inside the crew cab. The door will be on the rear wall of the engine tunnel, on the vertical surface.

The engine oil dipstick will allow for checking only. The transmission dipstick will allow for both checking and filling.

The door will have a rubber seal for thermal and acoustic insulation. One (1) [Latch, Door, Storage] will be provided on the access door.



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CAB SAFETY SYSTEM

The cab will be provided with a safety system designed to protect occupants in the event of a side roll or frontal impact, and will include the following:

- A supplemental restraint system (SRS) sensor will be installed on a structural cab member behind the instrument panel. The SRS sensor will perform real time diagnostics of all critical subsystems and will record sensory inputs immediately before and during a side roll or frontal impact event.
- A slave SRS sensor will be installed in the cab to provide capacity for eight (8) crew cab seating positions.
- A fault-indicating light will be provided on the vehicle's instrument panel allowing the driver to monitor the operational status of the SRS system.
- A driver side front air bag will be mounted in the steering wheel and will be designed to protect the head and upper torso of the occupant, when used in combination with the 3-point seat belt.
- A passenger side knee bolster air bag will be mounted in the modesty panel below the dash panel and will be designed to protect the legs of the occupant, when used in combination with the 3-point seat belt.
- Air curtains will be provided in the outboard bolster of outboard seat backs to provide a cushion between occupant and the cab wall.
- Suspension seats will be provided with devices to retract them to the lowest travel position during a side roll or frontal impact event.
- Seat belts will be provided with pre-tensioners to remove slack from the seat belt during a side roll or frontal impact event.

FRONTAL IMPACT PROTECTION

The SRS system will provide protection during a frontal or oblique impact event. The system will activate when the vehicle decelerates at a predetermined G force known to cause injury to the occupants. The cab and chassis will have been subjected, via third party test facility, to a crash impact during frontal and oblique impact testing. Testing included all major chassis and cab components such as mounting straps for fuel and air tanks, suspension mounts, front suspension components, rear suspensions components, frame rail cross members, engine and transmission and their mounts, pump house and mounts, frame extensions and body mounts. The testing provided configuration specific information used to optimize the timing for firing the safety restraint system. The sensor will activate the pyrotechnic devices when the correct crash algorithm, wave form, is detected.

The SRS system will deploy the following components in the event of a frontal or oblique impact event:

- Driver side front air bag
- Passenger side knee bolster air bag
- Air curtains mounted in the outboard bolster of outboard seat backs
- Suspension seats will be retracted to the lowest travel position
- Seat belts will be pre-tensioned to firmly hold the occupant in place

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SIDE ROLL PROTECTION

The SRS system will provide protection during a fast or slow 90 degree roll to the side, in which the vehicle comes to rest on its side. The system will analyze the vehicle's angle and rate of roll to determine the optimal activation of the advanced occupant restraints.

The SRS system will deploy the following components in the event of a side roll:

- Air curtains mounted in the outboard bolster of outboard seat backs
- Suspension seats will be retracted to the lowest travel position
- Seat belts will be pre-tensioned to firmly hold the occupant in place

SEATING CAPACITY

The seating capacity in the cab will be six (6).

DRIVER SEAT

A seat will be provided in the cab for the driver. The seat design will be a cam action type, with air suspension. For increased convenience, the seat will include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control will be a towel-bar style located below the forward part of the seat cushion. To provide flexibility for multiple driver configurations, the seat will have an adjustable reclining back. The seat back will be a high back style with side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A suspension seat safety system will be included. When activated in the event of a side roll, this system will pretension the seat belt and retract the seat to its lowest travel position.

The seat will be furnished with a 3-point, shoulder type seat belt.

OFFICER SEAT

A seat will be provided in the cab for the passenger. The seat will be a fixed type, with no suspension. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back will be an SCBA back style with 5 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt.

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The seat will be furnished with a 3-point, shoulder type seat belt.

RADIO COMPARTMENT

A radio compartment will be provided under the officer's seat.

The inside compartment dimensions will be 16.00" wide x 7.50" high x 15.00" deep, with the back of the compartment angled up to match the cab structure.

A drop-down door with one (1) [Latch, Door, Storage] will be provided for access.

The compartment will be constructed of smooth aluminum and painted to match the cab interior.

REAR FACING DRIVER SIDE OUTBOARD SEAT

There will be one (1) rear facing seat provided at the driver side outboard position in the crew cab. For optimal comfort, the seat will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back will be an SCBA back style with 5 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seat will be furnished with a 3-point, shoulder type seat belt.

REAR FACING PASSENGER SIDE OUTBOARD SEAT

There will be one (1) rear facing seat provided at the passenger side outboard position in the crew cab. For optimal comfort, the seat will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back will be an SCBA back style with 5 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seat will be furnished with a 3-point, shoulder type seat belt.

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FORWARD FACING CENTER SEATS

There will be two (2) forward facing seats provided at the center position in the crew cab. For optimal comfort, the seats will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat backs will be an SCBA style with 90 degree back. The SCBA cavity will be adjustable from front to rear in 1.00" increments to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seats will be furnished with a 3-point, shoulder type seat belt.

SEAT UPHOLSTERY

All seat upholstery will be leather grain 36 oz dark silver gray vinyl resistant to oil, grease and mildew. The cab will have six (6) seating positions.

AIR BOTTLE HOLDERS

All SCBA type seats in the cab will have a "Hands-Free" auto clamp style bracket in its backrest. For efficiency and convenience, the bracket will include an automatic spring clamp that allows the occupant to store the SCBA bottle by simply pushing it into the seat back. For protection of all occupants in the cab, in the event of an accident, the inertial components within the clamp will constrain the SCBA bottle in the seat and will exceed the NFPA standard of 9G.

There will be a quantity of five (5) SCBA brackets.

SEAT BELTS

All cab and tiller cab (if applicable) seating positions will have red seat belts. To provide quick, easy use for occupants wearing bunker gear, the female buckle and seat belt webbing length will meet or exceed the current edition of NFPA 1901 and CAN/ULC - S515 standards.

The 3-point shoulder type seat belts will include height adjustment. This adjustment will optimize the belts effectiveness and comfort for the seated firefighter. The 3-point shoulder type seat belts will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position.

The 3-point shoulder type belts will also include the ReadyReach D-loop assembly to the shoulder belt system. The ReadyReach feature adds an extender arm to the D-loop location placing the D-loop in a closer, easier to reach location.

Any flip up seats will include a 3-point shoulder type belts only.

To ensure safe operation, the seats will be equipped with seat belt sensors in the seat cushion and belt receptacle that will activate an alarm indicating a seat is occupied but not buckled.

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HELMET STORAGE PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2016 edition, section 14.1.7.4.1 requires a location for helmet storage be provided.

There is no helmet storage on the apparatus as manufactured. The fire department will provide a location for storage of helmets.

CAB DOME LIGHTS

There will be four (4) dual LED dome lights with black bezels provided. Two (2) lights will be mounted above the inside shoulder of the driver and officer and two (2) lights will be installed and located, one (1) on each side of the crew cab.

The color of the LED's will be red and white.

The white LED's will be controlled by the door switches and the lens switch.

The color LED's will be controlled by the lens switch.

In order to ensure exceptional illumination, each white LED dome light will provide a minimum of 10.1 foot-candles (fc) covering an entire 20.00" x 20.00" square seating position when mounted 40.00" above the seat.

PORTABLE HAND LIGHTS, PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2016 edition, section 5.9.4 requires two portable hand lights mounted in brackets fastened to the apparatus.

The hand lights are not on the apparatus as manufactured. The fire department will provide and mount these hand lights.

CAB INSTRUMENTATION

The cab instrument panel will include gauges, telltale indicator lamps, control switches, alarms, and a diagnostic panel. The function of the instrument panel controls and switches will be identified by a label adjacent to each item. Actuation of the headlight switch will illuminate the labels in low light conditions. Telltale indicator lamps will not be illuminated unless necessary. The cab instruments and controls will be conveniently located within the forward cab section, forward of the driver. The gauge assembly and switch panels are designed to be removable for ease of service and low cost of ownership.

Gauges

The gauge panel will include the following ten (10) black faced gauges with black bezels to monitor vehicle performance:

- Voltmeter gauge (volts):
 - Low volts (11.8 VDC)
 - Amber telltale light on indicator light display with steady tone alarm
 - High volts (15.5 VDC)
 - Amber telltale light on indicator light display with steady tone alarm
- Engine Tachometer (RPM)
- Speedometer MPH (Major Scale), KM/H (Minor Scale)

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- Fuel level gauge (Empty - Full in fractions):
 - Low fuel (1/8 full)
 - Amber indicator light in gauge dial with steady tone alarm
- Engine Oil pressure Gauge (PSI):
 - Low oil pressure to activate engine warning lights and alarms
 - Red indicator light in gauge dial with steady tone alarm
- Front Air Pressure Gauges (PSI):
 - Low air pressure to activate warning lights and alarm
 - Red indicator light in gauge dial with steady tone alarm
- Rear Air Pressure Gauges (PSI):
 - Low air pressure to activate warning lights and alarm
 - Red indicator light in gauge dial with steady tone alarm
- Transmission Oil Temperature Gauge (Fahrenheit):
 - High transmission oil temperature activates warning lights and alarm
 - Amber indicator light in gauge dial with steady tone alarm
- Engine Coolant Temperature Gauge (Fahrenheit):
 - High engine temperature activates an engine warning light and alarms
 - Red indicator light in gauge dial with steady tone alarm
- Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions):
 - Low fluid (1/8 full)
 - Amber indicator light in gauge dial

Indicator Lamps

To promote safety, the following telltale indicator lamps will be located on the instrument panel in clear view of the driver. The indicator lamps will be "dead-front" design that is only visible when active. The colored indicator lights will have descriptive text or symbols.

The following amber telltale lamps will be present:

- Low coolant
- Trac cntl (traction control) (where applicable)
- Check engine
- Check trans (check transmission)
- Air rest (air restriction)
- DPF (engine diesel particulate filter regeneration)
- HET (engine high exhaust temperature) (where applicable)
- ABS (antilock brake system)
- MIL (engine emissions system malfunction indicator lamp) (where applicable)
- Regen inhibit (engine emissions regeneration inhibit) (where applicable)
- Side roll fault (where applicable)
- Front air bag fault (where applicable)
- Aux brake overheat (auxiliary brake overheat) (where applicable)
- The following red telltale lamps will be present:
- Ladder rack down

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- Parking brake
- Stop engine
- The following green telltale lamps will be present:
 - Left turn
 - Right turn
 - Battery on
 - Ignition
 - Aux brake (auxiliary brake engaged) (where applicable)
- The following blue telltale lamps will be present:
 - High beam

Alarms

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning condition is active.

Indicator Lamp and Alarm Prove-Out

A system will be provided which automatically tests telltale indicator lights and alarms located on the cab instrument panel. Telltale indicators and alarms will perform prove-out for 3 to 5 seconds when the ignition switch is moved to the on position with the battery switch on.

Control Switches

For ease of use, the following controls will be provided immediately adjacent to the cab instrument panel within easy reach of the driver. All switches will have backlit labels for low light applications.

Headlight/Parking light switch: A three (3)-position maintained rocker switch will be provided. The first switch position will deactivate all parking and headlights. The second switch position will activate the parking lights. The third switch will activate the headlights.

Panel back lighting intensity control switch: A three (3)-position momentary rocker switch will be provided. Pressing the top half of the switch, "Panel Up" increases the panel back lighting intensity and pressing the bottom half of the switch, "Panel Down" decreases the panel back lighting intensity. Pressing the half or bottom half of the switch several times will allow back lighting intensity to be gradually varied from minimum to maximum intensity level for ease of use.

Ignition switch: A three (3)-position maintained/momentary rocker switch will be provided. The first switch position will turn off and deactivate vehicle ignition. The second switch position will activate vehicle ignition and will perform prove-out on the telltale indicators and alarms for 3 to 5 seconds after the switch is turned on. A green indicator lamp is activated with vehicle ignition. The third momentary position will temporarily silence all active cab alarms. An alarm "chirp" may continue as long as alarm condition exists. Switching ignition to off position will terminate the alarm silence feature and reset function of cab alarm system.

Engine start switch: A two (2)-position momentary rocker switch will be provided. The first switch position is the default switch position. The second switch position will activate the vehicle's engine. The switch actuator is designed to prevent accidental activation.

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Hazard switch will be provided on the instrument panel or on the steering column.

Heater, defrost, and air conditioning control panel.

Turn signal arm: A self-canceling turn signal with high beam headlight controls.

Windshield wiper control will have high, low, and intermittent modes.

Parking brake control: An air actuated push/pull park brake control.

Chassis horn control: Activation of the chassis horn control will be provided through the center of the steering wheel.

High idle engagement switch: A maintained rocker switch with integral indicator lamp will be provided. The switch will activate and deactivate the high idle function. The "OK To Engage High Idle" indicator lamp must be active for the high idle function to engage. A green indicator lamp integral to the high idle engagement switch will indicate when the high idle function is engaged.

"OK To Engage High Idle" indicator lamp: A green indicator light will be provided next to the high idle activation switch to indicate that the interlocks have been met to allow high idle engagement.

Emergency switching will be controlled by multiple individual warning light switches for various groups or areas of emergency warning lights. An Emergency Master switch provided on the instrument panel that enables or disables all individual warning light switches is included.

An additional "Emergency Master" button will be provided on the lower left hand corner of the gauge panel to allow convenient control of the "Emergency Master" system from inside the driver's door when standing on the ground.

Custom Switch Panels

The design of cab instrumentation will allow for emergency lighting and other switches to be placed within easy reach of the operator thus improving safety. There will be positions for up to four (4) switch panels in the lower instrument console and up to six (6) switch panels in the overhead visor console. All switches have backlit labels for low light conditions.

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**Diagnostic Panel**

A diagnostic panel will be provided and accessible while standing on the ground. The panel will be located inside the driver's side door left of the steering column. The diagnostic panel will allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches will allow ABS systems to provide blink codes should a problem exist.

The diagnostic panel will include the following:

- ENGINE/TRANSMISSION/ABS J1939 Diagnostic Port
- ABS Diagnostic Switch and Indicator - The switch and amber indicator will allow access to diagnostic mode and display of standard ABS system fault blink codes that may be generated by the ABS system
- DPF REGEN (Diesel Particulate Filter Regeneration Switch) (where applicable) will be provided to request regeneration of the engine emission system. An amber indicator will be provided on top of the switch that will illuminate in a "CHECK ENGINE" condition
- REGEN INHIBIT (Diesel Particulate Filter Regeneration Inhibit Switch) (where applicable) will be provided that will request that regeneration be temporarily prevented. A green indicator will

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be provided on top of the Regen Inhibit switch that will illuminate when the Regen Inhibit feature is active. Regen Inhibit will be disabled upon cycling of the ignition switch to the off state.

AIR RESTRICTION INDICATOR

A high air restriction warning indicator light (electronic) will be provided.

"DO NOT MOVE APPARATUS" INDICATOR

A flashing red indicator light, located in the driving compartment, will be illuminated automatically per the current NFPA requirements. The light will be labeled "Do Not Move Apparatus If Light Is On."

The same circuit that activates the Do Not Move Apparatus indicator will activate a pulsing alarm when the parking brake is released.

SWITCH PANELS

The built-in switch panels will be located in the lower console or overhead console of the cab. Switches will be rocker type with an indicator light, of which is an integral part of the switch.

WIPER CONTROL

Wiper control will consist of a two (2)-speed windshield wiper control with intermittent feature and windshield washer controls.

SPARE CIRCUIT

There will be one (1) dual USB fast charge socket mounts installed on the apparatus.

The above wires will have the following features:

- The positive wire will be connected directly to the battery power.
- The negative wire will be connected to ground.
- Wires will be protected to 4.8 amps at 12 volts DC.
- The USB socket mount will be panel position #14.
- Termination will be a Blue Sea Systems part number 1045 dual USB charger socket.
- Wires will be sized to 125% of the protection.

This circuit(s) may be load managed when the parking brake is applied.

SPARE CIRCUIT

There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus.

The above wires will have the following features:

- The positive wire will be connected directly to the battery power
- The negative wire will be connected to ground
- Wires will be protected to 15 amps at 12 volts DC
- Power and ground will terminate panel position #14
- Termination will be with 15 amp, power point plug with rubber cover
- Wires will be sized to 125 percent of the protection

The circuit(s) may be load managed when the parking brake is set.

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INFORMATION CENTER

There will be a LCD display integral to the cab gauge panel provided that will display the following information:

- Total distance
- Trip distance
- Total hours
- Trip hours
- PTO "A" hours
- PTO "B" hours

VEHICLE DATA RECORDER

There will be a vehicle data recorder (VDR) capable of reading and storing vehicle information provided.

The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A USB cable can be used to connect the VDR to a laptop to retrieve required information. The program to download the information from the VDR will be available to download on-line.

The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs:

- Vehicle Speed - MPH
- Acceleration - MPH/sec
- Deceleration - MPH/sec
- Engine Speed - RPM
- Engine Throttle Position - % of Full Throttle
- ABS Event - On/Off
- Seat Occupied Status - Yes/No by Position
- Seat Belt Buckled Status - Yes/No by Position
- Master Optical Warning Device Switch - On/Off
- Time - 24 Hour Time
- Date - Year/Month/Day

Seat Belt Monitoring System

A seat belt monitoring system (SBMS) will be provided. The SBMS will be capable of monitoring up to 10 seating positions indicating the status of each seat position per the following:

- Seat Occupied & Buckled = Green LED indicator illuminated
- Seat Occupied & Unbuckled = Red LED indicator with audible alarm
- No Occupant & Buckled = Red LED indicator with audible alarm
- No Occupant & Unbuckled = No indicator and no alarm

The SBMS will include an audible alarm that will warn that an unbuckled occupant condition exists and the parking brake is released, or the transmission is not in park.

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RADIO ANTENNA MOUNT

There will be two (2) standard 1.125", 18 thread antenna-mounting base(s) installed one (1) on the left side and one (1) on the right side on the cab roof with high efficiency, low loss, coaxial cable(s) routed to the instrument panel area. A weatherproof cap will be installed on the mount.

**VEHICLE CAMERA SYSTEM**

There will be a color vehicle camera system provided with the following:

- One (1) camera located at the rear of the apparatus, pointing rearward, displayed automatically with the vehicle in reverse.

The camera image will be displayed on a 7.00" LCD display located in view of the driver in the custom dash, per instrument panel layout. The display will include manual camera activation capability and audio from the active camera.

The following components will be included:

- One (1) MO700136DC, display
- One (1) SV-CW134639CAI, camera
- All necessary cables

ELECTRICAL POWER CONTROL SYSTEM

A compartment will be provided in or under the cab to house the vehicle's electrical power and signal circuit protection and control components. The power and signal protection and control compartment will contain circuit protection devices and power control devices. Power and signal protection and control components will be protected against corrosion, excessive heat, excessive vibration, physical damage and water spray.

Serviceable components will be readily accessible.

Circuit protection devices, which conform to SAE standard, will be utilized to protect each circuit. All circuit protection devices will be sized to prevent wire and component damage when subjected to extreme current overload. General protection circuit breakers will be Type-I automatic reset (continuously resetting) and conform to SAE J553 or J258. When required, automotive type fuses conforming to SAE J554, J1284, J1888 or J2077 will be utilized to protect electronic equipment.

Power control relays and solenoids will have a direct current (dc) rating of 125 percent of the maximum current for which the circuit is protected.

Visual status indicators will be supplied to identify control safety interlocks and vehicle status. In addition to visual status indicators, audible alarms designed to provide early warning of problems before they become critical will be used.

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VOLTAGE MONITOR SYSTEM

A voltage monitor system will be provided to indicate the status of each battery system connected to the vehicle's electrical load. The monitor system will provide visual and audio warning when the system voltage is above or below optimum levels.

POWER AND GROUND STUDS

Spare circuits will be provided in the primary distribution center for two-way radio equipment.

The spare circuits will consist of the following:

- One (1) 12-volt DC, 30 amp battery direct spare
- One (1) 12-volt DC ground and un-fused switched battery stud located in or adjacent to the power distribution center

EMI/RFI PROTECTION

The electrical system proposed will include means to control undesired electromagnetic and radio frequency emissions. State of the art electrical system design and components will be used to ensure radiated and conducted EMI (electromagnetic interference) and RFI (radio frequency interference) emissions are suppressed at their source.

The apparatus proposed will have the ability to operate in the electromagnetic environment typically found in fire ground operations. The contractor will be able to demonstrate the EMI and RFI testing has been done on similar apparatus and certifies that the vehicle proposed meets SAE J551 requirements.

EMI/RFI susceptibility will be controlled by applying immune circuit designs, shielding, twisted pair wiring and filtering. The electrical system will be designed for full compatibility with low level control signals and high powered two-way radio communication systems. Harness and cable routing will be given careful attention to minimize the potential for conducting and radiated EMI-RFI susceptibility.

ELECTRICAL

All 12-volt electrical equipment installed by Pierce Manufacturing will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run, in loom or conduit, where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers will be provided which conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids.

Electrical wiring and equipment will be installed utilizing the following guidelines:

1. All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof.
2. Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body.
3. Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also, a coil of wire will be

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provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.

4. Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will have this compound in the plug to prevent corrosion and for easy separation (of the plug).
5. All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.
6. All electrical terminals in exposed areas will have silicon (1890) applied completely over the metal portion of the terminal.

All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection.

Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments.

An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

The results of the tests will be recorded and provided to the purchaser at time of delivery.

BATTERY SYSTEM

There will be four (4) 12 volt Exide®, Model 31S950X3W, batteries that include the following features will be provided:

- 950 CCA, cold cranking amps
- 190 amp reserve capacity
- High cycle
- Group 31
- Rating of 3800 CCA at 0 degrees Fahrenheit
- 760 minutes of reserve capacity
- Threaded stainless steel studs

Each battery case will be a black polypropylene material with a vertically ribbed container for increased vibration resistance. The cover will be manifold vented with a central venting location to allow a 45 degree tilt capacity.

The inside of each battery will consist of a "maintenance free" grid construction with poly wrapped separators and a flooded epoxy bottom anchoring for maximum vibration resistance.

BATTERY SYSTEM

There will be a single starting system with an ignition switch and starter button provided and located on the cab instrument panel.

MASTER BATTERY SWITCH

There will be a master battery switch provided within the cab within easy reach of the driver to activate the battery system.

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An indicator light will be provided on the instrument panel to notify the driver of the status of the battery system.

BATTERY COMPARTMENTS

Batteries will be placed on non-corrosive mats and stored in well ventilated compartments located under the cab.

Heavy-duty, 2/0 gauge, color coded battery cables will be provided. Battery terminal connections will be coated with anti-corrosion compound.

Battery solenoid terminal connections will be encapsulated with semi-permanent rubberized compound.

JUMPER STUDS

One (1) set of battery jumper studs with plastic color-coded covers will be included on the battery compartments.

BATTERY CHARGER

There will be an IOTA™, Model DSL 75, battery charger with IQ4, controller provided.

The battery charger will be wired to the AC shoreline inlet through an AC receptacle adjacent to this battery charger.

There will be a Kussmaul™, Model #091-94-12, remote indicator included.

Battery charger will be located in the cab behind the driver seat

The battery charger indicator will be located behind the driver's door on the outside of the cab.

AUTO EJECT FOR SHORELINE

There will be one (1) Kussmaul™, Model 091-55-20-120, 20 amp 120 volt AC shoreline inlet(s) provided to operate the dedicated 120 volt AC circuits on the apparatus.

The shoreline inlet(s) will include red weatherproof flip up cover(s).

There will be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting.

The shoreline(s) will be connected to the battery charger.

There will be a mating connector body supplied with the loose equipment.

There will be a label installed near the inlet(s) that state the following:

- Line Voltage
- Current Rating (amps)
- Phase
- Frequency

The shoreline receptacle will be located on the driver side of cab, above wheel.

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ELECTRIC POWER FOR WINCH

Electric power provisions will be furnished for the portable winch from the chassis battery system.

The receiver plug will be located at all receiver locations.

A total quantity of three (3) receptacles will be provided.

ALTERNATOR

There will be a C.E Niehoff, Model C531 or C537 alternator provided. It will have a rated output current of 360 amps, as measured by SAE method J56. It will have a custom three (3)-set point voltage regulator, manufactured by C. E. Niehoff. The alternator will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.

ELECTRONIC LOAD MANAGEMENT

An electronic load management (ELM) system that monitors the vehicles 12-volt electrical system, and automatically reduces the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system.

The ELM will monitor the vehicle's voltage while at the scene (parking brake applied). It will sequentially shut down individual electrical loads when the system voltage drops below a preset value. Two (2) separate electrical loads will be controlled by the load manager. The ELM will sequentially re-energize electrical loads as the system voltage recovers.

HEADLIGHTS

There will be four (4) JW Speaker®, Model 8800, 4" x 6" rectangular LED lights with heated lens mounted in the front quad style, chrome housing on each side of the cab grille:

- the outside light on each side will contain a part number 055***1 low beam module
- the inside light on each side will contain a part number 055***1 high beam module
- the headlights to include chrome bezels

The low beam lights will be activated when the headlight switch is on.

The high beam and low beam lights will be activated when the headlight switch and the high beam switch is activated.

DIRECTIONAL LIGHTS

There will be two (2) Whelen, Model 60A00T*R, amber LED populated arrow directional lights provided on the front of the cab, above the headlights. Each light will be housed in the same quad common bezel as the front warning light. The lens color(s) to be clear.

INTERMEDIATE LIGHT

There will be two (2) Weldon, Model 9186-8580-29, amber LED turn signal marker lights furnished, one (1) each side, in the rear fender panel. The light will double as a turn signal and marker light.

CAB CLEARANCE/MARKER/ID LIGHTS

There will be five (5) amber LED lights provided to indicate the presence and overall width of the vehicle in the following locations:

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- Three (3) amber LED identification lights will be installed in the center of the cab above the windshield.
- Two (2) amber LED clearance lights will be installed, one (1) on each outboard side of the cab above the windshield.

FRONT CAB SIDE DIRECTIONAL/MARKER LIGHTS

There will be two (2) Weldon, Model 9186-8580-29, amber LED lights installed front of the cab door, one (1) on each side of the cab.

The lights will activate as marker lights with the headlight switch and directional lights with the corresponding directional circuit.

REAR CLEARANCE/MARKER/ID LIGHTING

There will be a three (3) LED light bar used as identification lights located at the rear of the apparatus per the following:

- As close as practical to the vertical centerline
- Centers spaced not less than 6.00" or more than 12.00" apart
- Red in color
- All at the same height

There will be two (2) LED lights installed at the rear of the apparatus used as clearance lights located at the rear of the apparatus per the following:

- To indicate the overall width of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the rear
- All at the same height

There will be two (2) LED lights installed on the side of the apparatus used as marker lights as close to the rear as practical per the following:

- To indicate the overall length of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the side
- All at the same height

There will be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

There will be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

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Per FMVSS 108 and CMVSS 108 requirements.

REAR FMVSS LIGHTING

The rear stop/tail and directional LED lighting will consist of the following:

- Two (2) Whelen®, Model M6BTT, red LED stop/tail lights
- Two (2) Whelen, Model M6T, amber LED arrow turn lights

The lights will be provided with color lenses.

Each light will be installed separately at the rear with Whelen, Model M6FC, chrome flanges.

Two (2) Whelen Model M6BUW, LED backup lights, will be provided with a flange.

LICENSE PLATE BRACKET

There will be one (1) license plate bracket mounted on the rear of the body.

A white LED light will illuminate the license plate. A stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.

BACK-UP ALARM

A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.

CAB PERIMETER SCENE LIGHTS

There will be four (4) Amdor, Model AY-LB-12HW012, 190 lumens each, 12.00" white LED strip lights provided.

- One (1) under the driver's side cab access step.
- One (1) under the passenger's side cab access step.
- One (1) under the passenger's side crew cab access step.
- One (1) under the driver's side crew cab access step.

The lights will be activated when the battery switch is on and the respective door is open and whenever control has been selected for the body perimeter lights.

BODY PERIMETER SCENE LIGHTS

There will be two (2) Amdor, Model AY-LB-12HW020, 350 lumens, 20.00" long, white LED's, 12 volt DC lights provided at the rear step area of the body, one (1) each side shining to the rear.

The perimeter scene lights will be activated when the parking brake is applied.

STEP LIGHTS

Step lights will be provided both at the rear of the body and in the recessed walkway on the roof of the body. All step lights will be white LED lights.

There will be one (1) step light provided on each side of the tailboard at the rear of the body.

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There will be one (1) chrome plated hooded step light provided every 4' in the recessed walkway.

Additional step lights will be installed under the following conditions:

- If a roof access ladder is installed on the rear of the apparatus, there will be one (1) step light installed at the top of the each roof access ladder.

In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15.00" x 15.00" square placed 10.00" below the light and a minimum of 1.5 fc covering an entire 30.00" x 30.00" square at the same 10.00" distance below the light.

The step lights will be activated when the parking brake is applied and deactivated when the parking brake is released.

All other steps on the apparatus will be illuminated per the current edition of NFPA 1901.

12 VOLT LIGHTING

There will be one (1) Whelen® Model P*H2*, 17,750 lumens 12 volt DC light(s) with a combination of flood and spot optics provided on the front visor, centered.

The housing(s) painted parts of this light assembly to be white.

The light(s) will be controlled by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel.

These light(s) may be load managed when the parking brake is applied.

12 VOLT LIGHTING

There will be one (1) Whelen® Model PCPSM1*, 10,444 lumens 12 volt DC surface mount light(s) installed on the body of the apparatus located, behind drivers door, above side crew cab window..

The light(s) will include black housing(s) with a chrome cover.

The light(s) will be controlled by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel.

The light(s) may be load managed when the parking brake is applied.

12 VOLT LIGHTING

There will be two (2) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC surface mount light(s) installed on the body of the apparatus located, driver side of body, above compartments LS1 and LS4.

The light(s) will include housing(s) with a chrome cover.

The light(s) will be controlled by the same control that has been selected for the driver's side scene light(s).

The light(s) may be load managed when the parking brake is applied.

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12 VOLT LIGHTING

There will be two (2) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC surface mount light(s) installed on the body of the apparatus located, rear body bulkheads, one each side, below the upper Whelen M9 warning lights.

The light(s) will include housing(s) with a chrome cover.

The light(s) will be controlled by a switch at the driver's side switch panel, by a switch at the passenger's side switch panel and by a switch in a recessed cup located at the driver's side rear bulkhead.

The light(s) may be load managed when the parking brake is applied.

12 VOLT LIGHTING

There will be two (2) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC surface mount light(s) installed on the body of the apparatus located, passenger side of body, above RS1 and RS4.

The light(s) will include housing(s) with a chrome cover.

The light(s) will be controlled by the same control that has been selected for the passenger's side scene light(s).

The light(s) may be load managed when the parking brake is applied.

12 VOLT LIGHTING

There will be one (1) Whelen® PCPSM1*, 10,444 lumens 12 volt DC surface mount light(s) installed on the body of the apparatus located, behind passengers door, above side crew cab window..

The light(s) will include black housing(s) with a chrome cover.

The light(s) will be controlled by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel.

The light(s) may be load managed when the parking brake is applied.

HEAVY DUTY RESCUE BODY CONSTRUCTION

The body will be built as a separate module prior to being mounted onto the substructure. The rescue body will be constructed of 5052 aluminum. The structural support framing and the gussets used will be of 2.00" (51 mm) square 0.125" (3 mm) wall 6061 aluminum alloy tubing. All exterior body corners will be 3.00" (76 mm) radius aluminum, corrosion resistant alloy 6061 extrusions. Spacing of the 2.00" (51 mm) vertical supports will not exceed 14.00" (356 mm) on center. The roof and corner extrusions will be reinforced with interconnecting gusset supports at all stress points. The body will be properly welded into a unitized construction. Proper reinforcing and supports will be utilized throughout the entire construction process to ensure strength and rigidity.

The body will be supported by 2.00" (51 mm) x 2.00" (51 mm) x 0.25" (6 mm) wall aluminum tubing. The cross sill tubes will be spaced approximately 15.00" (381 mm) on center and interconnected to the body from front to rear.

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A 1.00" (25 mm) x 3.00" (76 mm) aluminum bar will be used as a stringer and will be welded to the cross sills. The stringer will be used to mount the body to the chassis frame rails.

ROOF CONSTRUCTION

The roof will be integral with the body construction. The roof will be constructed of 0.125" (3 mm) bright aluminum treadplate and supported by 2.00" (51 mm) square 0.125" (3 mm) wall tubing welded in place approximately 12.00" (305 mm) on center. The roof will be further reinforced with 2.00" (51 mm) square gussets welded approximately every 48.00" (1219 mm). The roof perimeters will be constructed of a 3.00" (76 mm) radius extrusion with an integral drip molding. The roof extrusion will also have an inset allowing the roof panel to be recessed into the extrusion giving further support and sealing effect at the outside edge.

The roof panel will be welded to the roof extrusions and supports. All roof seams will be continuously welded.

BODY AND COMPARTMENT SUPPORT

The substructure for the body will not be integral with the body but will be a separate assembly.

The bottom of each lower compartment floor will be supported by an under slung steel angle grid that will be bolted to the chassis frame rails with grade 8 bolts in order to transfer major stress to the chassis frame and not through the body. The under slung support will be constructed of 0.50" (13 mm) x 2.50" (64 mm) x 2.50" (64 mm) steel angle vertical supports. Horizontal members will be 0.38" (10 mm) x 2.00" (51 mm) x 3.00" (76 mm) and 0.38" (10 mm) x 2.50" (64 mm) x 3.50" (89 mm) steel angle.

The complete substructure will be washed, primed and finish painted before being bolted to the chassis frame. A rubber coating will be applied over the painted under slung support structure for an additional corrosion barrier.

A 3.00" (76 mm) x 0.75" (19 mm) rubber liner will be placed on top of the chassis frame rails. The liner will be used to prevent metal to metal contact where the body stringer rests on the chassis frame rails.

The compartment floors will be bolted to the under slung substructure and the body will be secured to the chassis frame by a minimum of four (4) tie-down assemblies. Each tie-down assembly will consist of two (2) 2.00" (51 mm) x 6.25" (159 mm) x 0.75" (19 mm) steel plates and two (2) 14.00" (356 mm) long, 0.50" (13 mm) diameter steel rods. The tie-downs will be easily accessible so that the body may be removed.

BODY LENGTH

The length of the body will be 221.00" (5,613 mm).

BODY WIDTH

The width of the body will be 96.00".

Compartment Depth**Standard Depth**

All standard depth side body compartments will measure 28.00" deep from the outside of the body to the rear compartment wall. The usable depth inside each side body compartment will be 26.00" deep.

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Transverse

All transverse side body compartments will have a usable depth of 26.00" at the floor level. These compartments will extend over the frame rails through to the other side of the body.

BODY HEIGHT

The height of the body will be 90.00" (2,286 mm) without any roof mounted options.

ROOF CONFIGURATION

The roof of the body will be configured with side hatch compartments, a recessed walkway, and a recessed area for mounting equipment. The recessed area will be located at the front of the body. The side hatch compartments and the recessed walkway will be located rearward of the recessed area.

The side hatch compartments will run the length of the body on both sides from the rear up to the recessed area. The side hatch compartments will be provided in the following configuration:

- There will be two (2) hatch compartments on each side of the roof.

The recessed walkway will be centered between the hatch compartments, running the length of the body up to the recessed area.

Recessed Area

The recessed area will be constructed of 0.125" (3 mm) aluminum treadplate and will have two (2) 1.00" (25 mm) diameter drain holes. The drains will be routed to drain below the body.

The recessed area will be sized appropriately in order to allow proper mounting space and clearance for all roof mounted equipment where the designated mounting location is the recess on the roof of the body. The maximum allowable depth of the recessed area will be equal to the depth of the recessed walkway. The recess will be configured so that whenever possible, items mounted in the recess will stow below the roof line of the body. If a piece of equipment is taller than the maximum depth of the recess, that item may protrude above the roof line.

Hatch Compartments

All compartment doors will be designed to hinge on the outboard side and will be held open with gas cylinder struts.

The outside walls of the compartments will be a double wall design to prevent equipment from denting the outside painted surface.

A 1.00" (25 mm) diameter drain will be provided on the floor of each compartment. The drains will be routed to drain below the body.

Size of Hatch Compartments

The clear width of the side hatch compartments differs depending on the width of the body. The clear width of each side hatch compartment will be as follows:

Clear Width of Side Hatch Compartments According to Width of Body	
Body Width	Clear Width of Hatch Compartments
96.00" (2,438 mm)	26.50" (673 mm)

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100.00" (2,540 mm)	28.50" (724 mm)
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All hatch compartments on the roof of the body will have the same clear depth inside the compartment unless listed otherwise. The inside depth can differ depending on the height of the body. The clear depth inside each hatch compartment will be as follows:

Inside Depth of All Hatch Compartments According to Body Height	
Body Height	Inside Depth of Hatch Compartments
90.00" (2,286 mm)	16.50" (419 mm)
98.00" (2,489 mm)	24.50" (622 mm)
100.00" (2,540 mm)	26.50" (673 mm)
103.25" (2,623 mm)	29.50" (749 mm)
106.25" (2,699 mm)	32.50" (826 mm)
Body Height Not Listed Here	Consult factory for depth of hatch compartments

Recessed Walkway

The recessed walkway will not be less than 30.00" (762 mm) wide. The depth of the walkway will be equal to the depth of the hatch compartments. The walkway will be constructed of aluminum treadplate and reinforced with 0.125" (3 mm) thick, 2.00" (51 mm) square aluminum tubing on 12.00" (305 mm) centers.

The treadplate in the walkway will be formed up 90 degrees at least 2.00" (51 mm) on each side to form a double 0.125" (3 mm) vertical wall for a water tight seal.

There will be two (2) 1.00" (25 mm) diameter drain holes provided in the walkway. The drains will be routed to drain below the body.

SIDE COMPARTMENT ROLL-UP DOORS

There will be eight (8) compartment doors installed on the side compartments, double faced, aluminum construction, painted one (1) color to match the lower portion of the body and manufactured by AMDOR™ brand roll-up doors.

Door(s) will be constructed using 1.00" extruded double wall aluminum slats which will feature a flat smooth interior surface to provide maximum protection against equipment hang-up. The slats will be connected with a structural driven ball and socket hinge designed to provide maximum curtain diaphragm strength. Mounting and adjusting the curtain will be done with a clip system that connects the curtain to the balancer drum allowing for easy tension adjustment without tools. The slats will be mounted in reusable slat shoes with positive snap-lock securement.

Each slat will incorporate weather tight recessed dual durometer seals. One (1) fin will be designed to locate the seal within the extrusion. The second fin will serve as a wiping seal which will also allow for compression to prevent water ingress.

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The doors will be mounted in a one (1)-piece aluminum side frame with recessed side seals to minimize seal damage during equipment deployment. All seals including side frames, top gutters and bottom panel are to be manufactured utilizing non-marring materials.

Bottom panel flange of roll-up door will be equipped with two (2) cut-outs to allow for easier access with gloved hands.

A stainless steel lift bar to be provided for opening the door and located at the bottom of each door with latches on the outer extrusion of the door frame. A ledge to be supplied over lift bar for additional area to aid in closing the door. The lift bar will be located at the bottom of door with striker latches installed at the base of the side frames. Side frame mounted door strikers will include support beneath the stainless steel lift bar to prevent door curtain bounce, improve bottom seal life expectancy and to avoid false door ajar signals.

All injection molded roll-up door wear components will be constructed of Type 6 nylon.

Each roll-up door will have a 3.00" diameter balancer/tensioner drum to assist in lifting the door.

The header for the roll-up door assembly will not exceed 4.00".

A heavy-duty magnetic switch will be used for control of open compartment door warning lights.

EXTERIOR COMPARTMENTS

The exterior compartment layout, dimensions and requirements will be minimum specifications. The doors will be able to withstand years of rugged service and wear. For this reason, the compartment door design, metal thickness and attachments will be strictly adhered to. The compartment will be constructed of 0.125" (3 mm)-corrosion resistant aluminum alloy, including all interior panels, floor and sides. The assemblies will be held inside fixtures while being welded.

Compartment flooring will be of the sweep out design with the floor higher than the compartment door frame. All compartments will be supported on top, rear and bottom. The rear wall of each exterior compartment will be welded to the cross sills. Drip protection will be provided over all door openings with an integral roof extrusion or aluminum extrusion.

WHEEL WELLS

The rear fenders will be an integral part of the body sides and compartments. The inside of the fender will be fitted with a full circular inner fender liner. All screws and bolts, which protrude into a compartment, will have acorn nuts attached.

LEFT FORWARD COMPARTMENTS

First Compartment

The first compartment will be located behind the cab. The compartment will be provided with a full-height roll-up door.

Dimensions of First Compartment	
Width	Door Frame Opening: 48.00" wide; Clear Door Opening: 45.50" wide; Interior Compartment Width: 50.50" wide

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Height	Door Frame Opening: 64.00" high; Clear Door Opening: 58.00" high; Interior Compartment Height: 66.88" high
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The compartment will be transverse, extending over the frame rails through to the other side of the body. The area over the frame rails will be 50.50" wide. The height of the area over the frame rails will be 49.25" high.

Second Compartment

The second compartment will be located behind the first compartment and directly ahead of the rear wheels. The compartment will be provided with a full-height roll-up door.

Dimensions of Second Compartment	
Width	Door Frame Opening: 48.00" wide; Clear Door Opening: 45.50" wide; Interior Compartment Width: 50.88" wide
Height	Door Frame Opening: 64.00" high; Clear Door Opening: 58.00" high; Interior Compartment Height: 66.88" high

The compartment will be transverse, extending over the frame rails through to the other side of the body. The area over the frame rails will be 50.88" wide. The height of the area over the frame rails will be 49.25" high.

Compartment Loading

Each compartment will be capable of holding 1,100 lb. The area over the frame rails in each compartment will be capable of holding an additional 1,000 lb.

LEFT OVER WHEEL COMPARTMENT

A compartment will be provided above the rear wheels. The compartment will be provided with a full height roll-up door.

Dimensions of Left Over Wheel Compartment	
Width	Door Frame Opening: 57.00" wide; Clear Door Opening: 54.50" wide; Interior Compartment Width: 62.50" wide
Height	Door Frame Opening: 36.25" high; Clear Door Opening: 31.25" high; Interior Compartment Height: 39.13" high

Compartment Loading

The compartment will be capable of holding 1,200 lb.

LEFT REAR SIDE COMPARTMENT

The left rear side compartment will be located directly behind the rear wheels. The compartment will be provided with a full-height roll-up door.

Dimensions of Left Rear Side Compartment	
Width	Door Frame Opening: 48.00" wide; Clear Door Opening: 45.50" wide; Interior Compartment

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	Width: 50.50" wide
Height	Door Frame Opening: 64.00" high; Clear Door Opening: 58.00" high; Interior Compartment Height: 66.88" high

Compartment Loading

The compartment will be capable of holding 1,100 lb.

RIGHT FORWARD COMPARTMENTS**First Compartment**

The first compartment will be located behind the cab. The compartment will be provided with a full-height roll-up door.

Dimensions of First Compartment	
Width	Door Frame Opening: 48.00" wide; Clear Door Opening: 45.50" wide; Interior Compartment Width: 50.50" wide
Height	Door Frame Opening: 64.00" high; Clear Door Opening: 58.00" high; Interior Compartment height: 66.88" high

The compartment will be transverse, extending through to the other side of the body. The width of the area over the frame rails will be 50.50" wide. The height of the area over the frame rails will be 49.25" high.

Second Compartment

The second compartment will be located behind the first compartment and directly ahead of the rear wheels. The compartment will be provided with a full-height roll-up door.

Dimensions of Second Compartment	
Width	Door Frame Opening: 48.00" wide; Clear Door Opening: 45.50" wide; Interior Compartment Width: 50.88" wide
Height	Door Frame Opening: 64.00" high; Clear Door Opening: 58.00" high; Interior Compartment height: 66.88" high

The compartment will be transverse, extending through to the other side of the body. The width of the area over the frame rails will be 50.88" wide. The height of the area over the frame rails will be 49.25" high.

Compartment Loading

Each compartment will be capable of holding 1,100 lb. The area over the frame rails will be capable of holding an additional 1,000 lb in each compartment.

RIGHT OVER WHEEL COMPARTMENT

A compartment will be provided above the rear wheels. The compartment will be provided with a full height roll-up door.

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Dimensions of Right Over Wheel Compartment	
Width	Door Frame Opening: 57.00" wide; Clear Door Opening: 54.50" wide; Interior Compartment Width: 62.50" wide
Height	Door Frame Opening: 36.25" high; Clear Door Opening: 31.25" high; Interior Compartment Height: 39.13" high

Compartment Loading

The compartment will be capable of holding 1,200 lb.

RIGHT REAR SIDE COMPARTMENT

The right rear side compartment will be located directly behind the rear wheels. The compartment will be provided with a full-height roll-up door.

Dimensions of Right Rear Side Compartment	
Width	Door Frame Opening: 48.00" wide; Clear Door Opening: 45.50" wide; Interior Compartment Width: 50.50" wide
Height	Door Frame Opening: 64.00" high; Clear Door Opening: 58.00" high; Interior Compartment Height: 66.88" high

Compartment Loading

The compartment will be capable of holding 1,100 lb.

REAR COMPARTMENT**Roll-Up Door**

A roll-up door will be installed on the rear compartment. The door will be manufactured by AMDOR™ brand roll-up doors. The door finish will be satin aluminum.

The door will be constructed using 1.00" (25 mm) extruded double wall aluminum slats which will feature a flat smooth interior surface to provide maximum protection against equipment hang-up. The slats will be connected with a structural driven ball and socket hinge designed to provide maximum curtain diaphragm strength. Mounting and adjusting the curtain will be done with a clip system that connects the curtain to the balancer drum allowing for easy tension adjustment without tools. The slats will be mounted in reusable slat shoes with positive snap-lock securement.

Each slat will incorporate weather tight recessed dual durometer seals. One (1) fin will be designed to locate the seal within the extrusion. The other fin will serve as a wiping seal which will also allow for compression to prevent water ingress.

The door will be mounted in a one (1)-piece aluminum side frame with recessed side seals to minimize seal damage during equipment deployment. All seals including side frames, top gutters and bottom panel are to be manufactured utilizing non-marring materials.

The bottom panel flange of roll-up door will be equipped with two (2) cut-outs to allow for easier access with gloved hands.

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A stainless steel lift bar to be provided for opening the door and located at the bottom of each door with latches on the outer extrusion of the door frame. A ledge to be supplied over lift bar for additional area to aid in closing the door. The lift bar will be located at the bottom of door with striker latches installed at the base of the side frames. Side frame mounted door strikers will include support beneath the stainless steel lift bar to prevent door curtain bounce, improve bottom seal life expectancy and to avoid false door ajar signals.

All injection molded roll-up door wear components will be constructed of Type 6 Nylon.

The door will have a 3.00" (76 mm) diameter ballancer/tensioner drum to assist in lifting the door (garage door style).

The header for the roll-up door assembly will not exceed 4.00" (102 mm).

A heavy-duty magnetic switch will be used for control of "open compartment door" warning lights.

Compartment Door Size

Dimensions of Roll-Up Door (96.00" or 100.00" Wide Body)		
	Door Frame Opening	Clear Door Opening
With Recessed Walkway on Roof of Body	Width: 40.00" (1,016 mm) Height: 64.00" (1,626 mm)	Width: 37.25" (946 mm) Height: 57.13" (1,451 mm)
Without Recessed Walkway on Roof of Body	Width: 40.00" (1,016 mm) Height: 79.75" (2,026 mm)	Width: 37.25" (946 mm) Height: 73.88" (1,851 mm)

Interior Dimensions

Interior Width of Rear Compartment	
Body Width	Interior Width of Compartment
96.00" (2,438 mm) or 100.00" (2,540 mm)	40.00" (1,016 mm)

The frame rails will extend part of the way into the rear compartment at the floor level creating two (2) different values for the height and depth of the compartment. Both the height and depth of the compartment will be different when measured behind the frame rails as compared to when measured above the frame rails.

Interior Height of Rear Compartment		
	Full Height (Behind Frame Rails)	Height Above Frame Rails
Any Body with Recessed Walkway on Roof of Body	67.00" (1,702 mm)	49.37" (1,254 mm)
90.00" (2,286 mm) High Body without Recessed Walkway	82.75" (2,102 mm)	65.12" (1,654 mm)
98.00" (2,489 mm) High Body without Recessed Walkway	90.75" (2,305 mm)	73.12" (1,857 mm)

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Non-Standard Body Height without Recessed Walkway	Dimension available upon request	Dimension available upon request
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Depth of Rear Compartment

The rear compartment will be 26.00" (660 mm) deep at the floor level behind the frame rails.

The depth of the rear compartment above the frame rails can vary according to the configuration of the body. This dimension is dependent upon both the width and depth of the following compartments:

- Left Rear Side Compartment
- Right Rear Side Compartment
- Left Over the Wheel Compartment
- Right Over the Wheel Compartment

Depth of Rear Compartment Over the Frame				
	48.00" Rear Side Compts	60.00" Rear Side Compts	Rear Side Compts: Width Not Listed Here	Rear Side Compts: Transverse (Any Width)
Standard Over Wheel Compts	114.50" (2,908 mm)	126.50" (3,213 mm)	Width of Side Rear Compartments + 68.50" (1,740 mm)	No rear compartment. Door only.
Transverse Over Wheel Compts	51.88" (1,318 mm)	63.88" (1,623 mm)	Width of Side Rear Compartments + 5.88" (149 mm)	No rear compartment. Door only.
Over Wheel Compts: Non-Standard Dimension	Dimension available upon request	Dimension available upon request	Dimension available upon request	No rear compartment. Door only.

Compartment Loading

The compartment will be capable of holding 1,000 lb (454 kg). The area over the frame rails will be capable of holding an additional 2,000 lb (908 kg).

SIDE HITCH RECEIVERS

There will be one (1) hitch receiver installed under the body behind the rear wheels on each side of the body. The hitch receivers will be constructed of heavy steel tubing and reinforced to the truck framework.

Each hitch receiver will be tested to provide a 2:1 straight line pull no-yield safety factor over a maximum load rating of 10,000 lb. As a result, each of these hitch receivers will be capable of retaining a portable winch with a rating of no more than 10,000 lb. Each hitch receiver will also be capable of being used for rope operations when used with properly rated equipment.

The exact position of the receivers rearward of the axle will be behind rear axle, one each side of truck..

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ROOF ACCESS LADDER

A Zico model RL-2-6 Quic-Ladder will be provided at the rear of the body.

The ladder handrails will be constructed out of 1.25" (3 mm) heavy-walled aluminum tubing that is covered with a black, heat-resistant, powder coated finish. Each step will have a flat non-skid surface that is 3.00" (76 mm) deep x 18.00" (457 mm) wide. A swing-out and down extension section at the bottom of the ladder will be provided.

The ladder will be mounted on the right side at the rear of the body.

TOOL BOX

Tool box(es) construction of .50" thick plastic with a cut out carrying handle on each end will be provided.

The tool box(es) will be held in place to prevent movement while the vehicle is in motion.

The exterior box dimensions will be to fit in the floor mounted tray in P3..

There will be four (4) provided. The tool box(es) will be located P3.

STOKES/STRETCHER BASKET RACK

A rack constructed of one (1) storage trough for Stokes/Stretcher Basket(s) will be installed in a horizontal orientation in compartment R1 compartment near ceiling (Horizontal).

The clear rack trough dimensions will be 26" wide x 84" long X 10" high.

The rack will be fabricated of .125" aluminum with the exterior finished to match the compartment interior. The interior of the trough(s) will not be finished.

There will be a single retaining strap with hook and loop fastener provided to hold the stokes basket(s) in place.

REAR BUMPER

A bumper will be provided at the rear of the body. The rear bumper will be constructed as an integral part of the rear body substructure with an aluminum treadplate deck mounted to the frame to provide a stepping surface. A 3.00" high kick plate constructed of aluminum treadplate will be provided on the bulkhead surfaces above the bumper.

The bumper will be approximately 13.00" deep and as wide as possible.

REAR WALL, BODY MATERIAL

The rear wall will be smooth and the same material as the body.

TOW EYES

There will be a total of two (2) painted tow eyes provided and mounted directly to the chassis frame rails at the rear of the apparatus. The inner and outer edges of the tow eyes will have a radius.

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DOOR GUARD

There will be eight (8) compartment doors that will include a guard/drip pan designed to protect the roll-up door from damage when in the retracted position and contain any water spray. The guard will be fabricated from stainless steel and installed all body compartments.

ROLLUP DOOR PULL STRAP

There will be nine (9) compartment doors provided with Amdor Flex-HD pull straps. The compartment door(s) to be provided with a pull strap will be all body compartment doors, including rear door

COMPARTMENT LIGHTING

There will be nine (9) compartments with Pierce LED compartment light strips. The strips will be centered vertically along each side of the door framing.

Any remaining compartments will include 6.00" diameter Truck-Lite, Model: 79384 light in each enclosed compartment. Each light will have a number 1076 one filament, two wire bulb.

Opening the compartment door will automatically turn the compartment lighting on.

HATCH COMPARTMENT LIGHTING

There will be an LED strip light mounted on the hinged side of the interior in each hatch compartment.

Each light will be wired to an automatic door switch and to the "open door" indicator inside the cab.

STANDARD DEPTH ADJUSTABLE SHELF

An adjustable shelf will be provided. The shelf will be constructed of 0.188" thick aluminum with 2.00" high sides. The shelf will be provided painted spatter gray.

The shelf will be as deep as possible for a standard depth compartment, and as wide as possible for the specified mounting location.

The shelf will be secured within the compartment by means of adjustable threaded fasteners. These fasteners will slide in an extruded aluminum track to provide height adjustment.

The shelf will have a load capacity of 500 lb.

A total of one (1) shelf will be provided RS1.

HALF DEPTH ADJUSTABLE SHELF

An adjustable shelf will be provided for use in a transverse side body compartment. The shelf will be constructed of 0.188" thick aluminum with 2.00" high sides. The shelf will be provided painted spatter gray.

The shelf will be half depth of the transverse compartment and as wide as possible for the specified mounting location.

The shelf will be secured within the compartment by means of adjustable threaded fasteners. These fasteners will slide in an extruded aluminum track to provide height adjustment.

The shelf will have a load capacity of 500 lb.

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A total of two (2) shelves will be provided LS3, RS3.

HALF DEPTH SLIDE-OUT UTILITY TRAY

There will be two (2) slide-out trays provided for use in the transverse side body compartment(s).

Each tray will be a utility style tray that is rated for up to 500 lb in the extended position. The bottom of each tray will be constructed of 0.19" thick aluminum while special aluminum extrusions will be utilized for the tray sides, ends and tracks. The corners will be welded. Each tray will be provided painted spatter gray.

Each tray will have 3.00" high sides, will be half the depth of the transverse compartment and will be as wide as possible for the designated mounting location.

Each tray will be supported with a minimum of six (6) ball bearing rollers. Each tray will slide out two thirds (2/3) of its length in one (1) direction only.

Automatic locks will be provided for both the in and out positions. The trip mechanism for the locks will be located at the front of each tray for ease of use with a gloved hand.

The vertical location of each tray within the compartment will be adjustable.

The tray(s) will be located LS3, RS3.

110.00" DEEP SLIDE-OUT UTILITY TRAY

There will be one (1) slide-out tray provided for use in the rear compartment.

Each tray will be a utility style tray that is rated for up to 500 lb in the extended position. The bottom of each tray will be constructed of 0.19" thick aluminum while special aluminum extrusions will be utilized for the tray sides, ends and tracks. The corners will be welded.

Each tray will have 3.00" high sides, will be 110.00" deep and will be as wide as possible for the designated mounting location.

Each tray will be supported with a minimum of six (6) ball bearing rollers. Each tray will slide out two thirds (2/3) of its length in one (1) direction only.

Automatic locks will be provided for both the in and out positions. The trip mechanism for the locks will be located at the front of each tray for ease of use with a gloved hand.

The vertical location of each tray within the compartment will be adjustable.

The tray(s) will be located B1.

TRANSVERSE TWO (2) WAY SLIDE-OUT UTILITY TRAY

There will be two (2) slide-out trays provided for use in the transverse side body compartment(s).

Each tray will be a utility style tray that is rated for up to 500 lb in the extended position. The bottom of each tray will be constructed of 0.19" thick aluminum while special aluminum extrusions will be utilized

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for the tray sides, ends and tracks. The corners will be welded. Each tray will be provided painted spatter gray.

Each tray will have 3.00" high sides, will span the full depth of the transverse compartment and will be as wide as possible for the designated mounting location.

Each tray will be supported with a minimum of six (6) ball bearing rollers. Each tray will slide out two thirds (2/3) of its length to either side of the apparatus.

Automatic locks will be provided for both the in and out positions. The trip mechanism for the locks will be located at the front of each tray for ease of use with a gloved hand.

The vertical location of each tray within the compartment will be adjustable.

The tray(s) will be located LS4 & RS4.

STANDARD DEPTH SLIDE-OUT/TILT-DOWN TRAY

There will be two (2) slide-out trays provided.

The bottom of each tray will constructed of 0.188" thick aluminum while special aluminum extrusions will be utilized for the tray sides, ends, and tracks. The corners will be welded to form a rigid unit. The tray will be provided painted spatter gray.

The tray will have 3.00" high sides, will be full depth for a standard depth compartment and will be as wide as possible for the specified mounting location.

A spring loaded lock will be provided on each side at the front of the tray. Releasing the locks will allow the tray to slide out approximately two-thirds (2/3) of its length from the stowed position and tip 30 degrees down from horizontal. The tray will be equipped with ball bearing rollers for smooth operation.

Rubber padded stops will be provided for the tray in the extended position.

The capacity rating of the tray will be a minimum of 200 lb in the extended position.

The vertical position of the tray within the compartment will be adjustable.

The tray(s) will be located RS2 & LS2.

HALF DEPTH SLIDE-OUT/TILT-DOWN TRAY

There will be two (2) slide-out trays provided for use in the transverse side body compartment(s).

Each tray will be a slide-out/tilt down tray that is rated for up to 200 lb in the extended position. The bottom of each tray will constructed of 0.188" thick aluminum while special aluminum extrusions will be utilized for the tray sides, ends, and tracks. The corners will be welded to form a rigid unit. Each tray will be provided painted spatter gray.

The tray will have 3.00" high sides, will be half depth of the transverse compartment and will be as wide as possible for the specified mounting location.

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A spring loaded lock will be provided on each side at the front of the tray. Releasing the locks will allow the tray to slide out approximately two-thirds (2/3) of its length from the stowed position and tip 30 degrees down from horizontal. Each tray will be equipped with ball bearing rollers for smooth operation.

Rubber padded stops will be provided for the tray in the extended position.

The vertical position of each tray within the compartment will be adjustable.

The tray(s) will be located LS4 & RS4.

STANDARD DEPTH SLIDE-OUT FLOOR MOUNTED TRAY

There will be six (6) floor mounted slide-out tray(s) with 2.00" sides provided B1, LS3, LS4, RS1, RS3, RS4. Each tray will be rated for up to 500 lb in the extended position. The tray(s) will be constructed of 0.19" aluminum. The finish will be painted spatter gray.

Each tray will be mounted on two (2) under mount, roller bearing type slides. Each slide will be rated at 250 lb with a factor of safety of two (2).

To ensure years of dependable service the slides will be coated with a finish that is tested to withstand a minimum of 1,000 hours of salt spray per ASTM B117.

To ensure years of easy operation, the slide will require no more than a 50 lb force for push-in or pull-out movement when fully loaded after having been subjected to a 40 hour vibration (shaker) test under full load. The vibration drive file will have been generated from accelerometer data collected from a heavy truck chassis driven over rough gravel roads in an unloaded condition. Proof of compliance will be provided upon request.

Automatic locks will be provided for both the "in" and "out" positions. The trip mechanism for the locks will be located at the front of the tray for ease of use with a gloved hand.

STANDARD DEPTH SLIDE-OUT TOOLBOARD

A slide-out aluminum toolboard will be provided. The toolboard will be constructed of 0.19" thick aluminum that is painted spatter gray to match compartment interior. The toolboard will be provided with 0.20" diameter holes in a pegboard pattern with 1.00" centers between holes. A 1.00" x 1.00" aluminum tube frame will be welded to the edge of the pegboard. A handhold cutout will be provided on the outboard edge of the toolboard.

The toolboard will be as deep as possible for a standard depth compartment, and as tall as possible for the specified mounting location.

The toolboard will be mounted on an under mount, roller bearing type slide that is rated for 250 lb with a factor of safety of two (2).

To ensure years of dependable service the slide will be coated with a finish that is tested to withstand a minimum of 1,000 hours of salt spray per ASTM B117.

To ensure years of easy operation, the slide will require no more than a 50 lb force for push-in or pull-out movement when fully loaded after having been subjected to a 40 hour vibration (shaker) test under

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full load. The vibration drive file will have been generated from accelerometer data collected from a heavy truck chassis driven over rough gravel roads in an unloaded condition. Proof of compliance will be provided upon request.

The slide will be mounted to a shelf type track to allow side adjustment of the tool board.

A positive lock will be provided to allow the toolboard to be locked in both the stowed and extended positions.

A total of Two (2) standard depth slide-out toolboard(s) will be provided. The toolboard(s) will be located LS1.

RUB RAIL

Bottom edge of the side compartments will be trimmed with a bright aluminum extruded rub rail.

Trim will be 2.12" high with 1.38" flanges turned outward for rigidity.

The rub rails will not be an integral part of the body construction, which allows replacement in the event of damage.

BODY FENDER CROWNS

Stainless steel fender crowns will be provided around the rear wheel openings.

A rubber welting will be installed between the body and the crown to seal the seam and restrict moisture from entering.

A dielectric barrier will be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion.

HARD SUCTION HOSE

Hard suction hose will not be required.

ADDITIONAL HANDRAIL

One (1) handrail will be mounted on the officer side rear hatch compartment to assist with the rear access ladder.. The handrail(s) will be L-shaped to provide a grasping surface from multiple angles.

One (1) section of the handrail will be approximately 40.00" long and the other section will be approximately 20.00" long.

AIR BOTTLE STORAGE (SINGLE BOTTLE)

A total of three (3) air bottle compartments will be provided and located One in driver side fender panel, two in passenger side fender panel, one in front and one behind rear axle.. The air bottle compartment will be in the form of a round tube, 7.63" diameter, and will be of adequate depth to accommodate different size air bottles. The flooring will be rubber lined and have a drain hole. A stainless steel door with a chrome-plated latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.

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AIR HORN SYSTEM

There will be two (2) Grover air horns recessed in the front bumper. The horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed in-line to prevent loss of air in the air brake system.

Air Horn Location

The air horns will be located on each side of the bumper, towards the outside.

AIR HORN CONTROL

The air horn(s) will be activated by the following:

- Right side push button switch panel position 14
- Steering wheel horn ring with electric/air horn selector switch

ELECTRONIC SIREN

There will be a Whelen, Model 295SL 101, 100 or 200 watt electronic siren with noise canceling plug-in microphone will be provided.

This siren to be active when the battery switch is on and that emergency master switch is on.

The electronic siren head will be located in switch panel # 7 area of the center dash switch panel.

The electronic siren will be controlled on the siren head only. No horn button or foot switches will be provided.

SPEAKERS

There will be two (2) Whelen®, Model SA315P, black nylon composite, 100-watt, speakers with through bumper mounting brackets and polished stainless steel grille provided. Each speaker will be connected to the siren amplifier.

The speakers will be recessed in each side of the front bumper, just outside of the frame rails.

AUXILIARY MECHANICAL SIREN

There will be a Federal Signal Model Q2B mechanical siren furnished and installed in the front of the apparatus.

The Q2B will be chrome finish.

The siren will have a 2-gauge cable connected to a power solenoid that is connected by a 2-gauge cable ran battery direct to the primary chassis batteries and will be labeled Q2B+ at the battery. The power solenoid will only be enabled when the emergency master switch is on.

The siren will have a 2-gauge ground wire connected to the chassis battery stud. The cable will be labeled Q2B- at the battery.

When the chassis battery switch is on, and the emergency master switch is on, the Q2B siren will be activated by the following:

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The mechanical siren will be mounted on the bumper deck plate. It will be mounted on the left side. A reinforcement plate will be furnished to support the siren.

MECHANICAL SIREN CONTROL

The mechanical siren will be activated by the following:

- Left side foot switch.
- Right side push button switch.

A momentary switch will be included in the right side overhead switch panel to activate the siren brake.

A momentary switch will be included in the left side overhead switch panel to activate the siren brake.

FRONT ZONE UPPER WARNING LIGHTS

There will be one (1) 72.00" Whelen Freedom IV LED lightbar mounted on the cab roof.

The lightbar will include the following:

- One (1) red flashing LED module in the driver's side end position.
- One (1) red flashing LED module in the driver's side front corner position.
- One (1) white flashing LED module in the driver's side first front position.
- One (1) red flashing LED module in the driver's side second front position.
- One (1) red flashing LED module in the driver's side third front position.
- One (1) red flashing LED module in the driver's side fourth front position.
- Open in the driver's side fifth front position.
- Open in the driver's side sixth front position.
- Open in the passenger's side sixth front position.
- Open in the passenger's side fifth front position.
- One (1) red flashing LED module in the passenger's side fourth front position.
- One (1) red flashing LED module in the passenger's side third front position.
- One (1) red flashing LED module in the passenger's side second front position.
- One (1) white flashing LED module in the passenger's side first front position.
- One (1) red flashing LED module in the passenger's side front corner position.
- One (1) red flashing LED module in the passenger's side end position.

There will be clear lenses included on the lightbar.

There will be a switch in the cab on the switch panel to control this lightbar.

The white LEDs will be disabled when the parking brake is applied.

The six (6) red flashing LED modules in the front positions may be load managed when the parking brake is applied.

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LIGHTS, FRONT ZONE LOWER

Two (2) Whelen model M6*C LED flashing warning lights will be installed on the cab face above the headlights, in a common bezel with the directional lights.

The driver's side front warning light to be red.

The passenger's side front warning light to be red.

Both lights will include a clear lens.

There will be a switch located in the cab on the switch panel to control the lights.

HEADLIGHT FLASHER

The high beam headlights will flash alternately between the left and right side.

There will be a switch installed in the cab on the switch panel to control the high beam flash. This switch will be live when the battery switch and the emergency master switches are on.

The flashing will automatically cancel when the hi-beam headlight switch is activated or when the parking brake is set.

SIDE ZONE LOWER LIGHTING

There will be six (6) Whelen®, Model M6*C, LED flashing warning lights with Model 6EFLANGE, chrome flanges located in the following positions:

- Two (2) lights, one (1) each side on the bumper extension
 - The side front lights to be red
- Two (2) lights, one (1) each side above the front wheels
 - The side middle lights to be red
- Two (2) lights, one (1) each side above rear wheels
 - The side rear lights to be red

All six (6) lights will include a clear lens.

There will be a switch located in the cab on the switch panel to control the lights.

SIDE WARNING LIGHTS

There will be two (2) Whelen®, Model M9**, 6.50" high x 10.37" wide x 1.37" deep flashing LED warning light(s) with chrome trim provided, upper front body corner, one each side of truck..

The light(s) to include red LEDs. The warning light lens color(s) to be clear.

These lights will be activated with the side warning switch.

White LEDs will be deactivated when the parking brake is applied.

Amber, blue, green or red LEDs may be load managed when the parking brake is applied.

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REAR ZONE LOWER LIGHTING

There will be two (2) Whelen®, Model M6*C LED flashing warning lights with chrome trim located at the rear of the apparatus.

- The driver's side rear light to be red
- The passenger's side rear light to be red

The lenses will be clear.

There will be a switch located in the cab on the switch panel to control the lights.

WARNING LIGHTS (REAR AND SIDE UPPER ZONES)

There will be four (4), Whelen®, Model M9**C, 6.50" high x 10.37" wide x 1.37" deep flashing LED warning lights with chrome trim provided at the rear of the apparatus per the following:

- The side upper rear light on the left side to include red flashing LEDs.
- The rear upper light on the left side to include red flashing LEDs.
- The rear upper light on the right side to include red flashing LEDs.
- The side upper rear light on the right side to include red flashing LEDs.
- The warning light lens color(s) to be clear

There will be a switch in the cab on the switch panel to control the lights.

TRAFFIC DIRECTING LIGHT

There will be one (1) Whelen®, Model TAL65, 36.00" long x 2.87" high x 2.25" deep, amber LED traffic directing light installed at the rear of the apparatus.

The Whelen, Model TACTL5, control head will be included with this installation.

The controller will be energized when the battery switch is on.

The auxiliary flash to be activated when the rear zone upper lights are on and the parking brake is applied.

This traffic directing light will be recessed within a treadplate step at the rear of the apparatus.

The traffic directing light control head will be located in the driver side overhead switch panel in the right panel position.

LOOSE EQUIPMENT

The following equipment will be furnished with the completed unit:

- One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.

NFPA REQUIRED LOOSE EQUIPMENT PROVIDED BY FIRE DEPARTMENT

The following loose equipment as outlined in NFPA 1901, 2016 edition, section 10.9.3 will be provided by the fire department.

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- One (1) SCBA complying with NFPA 1981 for each assigned seating position, but not fewer than two (2), mounted in brackets fastened to the apparatus or stored in containers supplied by the SCBA manufacturer.
- One (1) spare SCBA cylinder for each SCBA carried, each mounted in a bracket fastened to the apparatus or stored in a specially designed storage space(s).
- One (1) first aid kit.
- One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 207, *Standard for High Visibility Public Safety Vests*, and have a five-point breakaway feature that includes two at the shoulders, two at the sides, and one at the front.
- Five (5) fluorescent orange traffic cones not less than 28" (711 mm) in height, each equipped with a 6" (152 mm) retro-reflective white band no more than 4" (102 mm) from the top of the cone, and an additional 4" (102 mm) retro-reflective white band 2" (51 mm) below the 6" (152 mm) band.
- Five (5) illuminated warning devices such as highway flares, unless the five fluorescent orange traffic cones have illuminating capabilities.
- One automatic external defibrillator (AED).

DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2016 edition, section 10.9.3 requires one (1) approved dry chemical portable fire extinguisher with a minimum 80-B:C rating mounted in a bracket fastened to the apparatus.

The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2016 edition, section 10.9.3 requires one (1) 2.5 gallon or larger water extinguisher mounted in a bracket fastened to the apparatus.

The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

PAINT PROCESS

The exterior custom cab and/or body painting procedure will consist of a seven (7) step finishing process. A commercial chassis paint process will follow similar processes as determined by the chassis manufacturer. The following procedure will be used by Pierce:

1. Manual Surface Preparation - All exposed metal surfaces on the custom cab and body will be thoroughly cleaned and prepared for painting. Imperfections on the exterior surfaces will be removed and sanded to a smooth finish. Exterior seams will be sealed before painting. Exterior surfaces that will not be painted include; chrome plating, polished stainless steel, anodized aluminum and bright aluminum treadplate.
2. Chemical Cleaning and Pretreatment - All surfaces will be chemically cleaned to remove dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. The aluminum surfaces will be properly cleaned and treated using a high pressure, high temperature 4 step Acid Etch process. The steel and stainless surfaces will be properly cleaned and treated using a high temperature 3 step process specifically designed for steel or stainless. The chemical treatment

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converts the metal surface to a passive condition to help prevent corrosion. A final pure water rinse will be applied to all metal surfaces.

3. Surfacer Primer - The Surfacer Primer will be applied to a chemically treated metal surface to provide a strong corrosion protective base coat. A minimum thickness of 2 mils of Surfacer Primer is applied to surfaces that require a critical aesthetic finish. The surfacer primer will be a two-component high solids urethane that has excellent sanding properties and an extra smooth finish when sanded.
4. Finish Sanding - The surfacer primer will be sanded with a fine grit abrasive to achieve an ultra-smooth finish. This sanding process is critical to produce the smooth mirror like finish in the topcoat.
5. Sealer Primer - The sealer primer is applied prior to the base coat in all areas that have not been previously primed with the surfacer primer. The sealer primer is a two-component high solids urethane that goes on smooth and provides excellent gloss hold out when top coated.
6. Base coat Paint - Two coats of a high performance, two component high solids polyurethane base coat will be applied. The Base coat will be applied to a thickness that will achieve the proper color match. The Base coat will be used in conjunction with a urethane clear coat to provide protection from the environment.
7. Clear Coat - Two (2) coats of clear coat will be applied over the base coat color. The clear coat is a two-component high solids urethane that provides superior gloss and durability to the exterior surfaces. Lap style doors will be clear coated to match the body. Paint warranty for the roll-up doors will be provided by the roll-up door manufacturer.

Our specifications are written to define cyclic corrosion testing, physical strengths, durability and minimum appearance requirements must be met in order for an exterior paint finish to be considered acceptable as a quality finish.

Each batch of base coat color will be checked for a proper match before painting of the cab and the body. After the cab and body are painted, the color is verified again to make sure that it matches the color standard. Electronic color measuring equipment will be used to compare the color sample to the color standard entered into the computer. Color specifications are used to determine the color match. A Delta E reading will be used to determine a good color match within each family color.

All removable items such as brackets, compartment doors, door hinges, and trim will be removed and separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly.

Environmental Impact

Contractor will meet or exceed all current State regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions:

- Topcoats and primers will be chrome and lead free.
- Metal treatment chemicals will be chrome free. The wastewater generated in the metal treatment process will be treated on-site to remove any other heavy metals.
- Particulate emission collection from sanding operations will have a 99.99 percent efficiency factor.

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- Particulate emissions from painting operations will be collected by a dry filter or water wash process. If the dry filter is used, it will have an efficiency rating of 98 percent. Water wash systems will be 99.97 percent efficient.
- Water from water wash booths will be reused. Solids will be removed on a continual basis to keep the water clean.
- Paint wastes will be disposed of in an environmentally safe manner.
- Empty metal paint containers will be recycled to recover the metal.
- Solvents used in clean-up operations will be recycled on-site or sent off-site for distillation and returned for reuse.

Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Pierce will, upon demand, present evidence that the manufacturing facility meets the above conditions and that it is in compliance with the state EPA rules and regulations.

PAINT

The cab will be two-tone, with the upper section painted #10 white and the lower section of the cab and body painted Pierce #90 candy apple red.

PAINT CHASSIS FRAME ASSEMBLY

The chassis frame assembly will be finished with a single system black top coat before the installation of the cab and body, and before installation of the engine and transmission assembly, air brake lines, electrical wire harnesses, etc.

Components that are included with the chassis frame assembly that will be painted are:

- Frame rails
- Frame liners
- Cross members
- Axles
- Suspensions
- Steering gear
- Battery boxes
- Bumper extension weldment
- Frame extensions
- Body mounting angles
- Rear Body support substructure (front and rear)
- Pump house substructure
- Air tanks
- Steel fuel tank
- Castings
- Individual piece parts used in chassis and body assembly

Components treated with epoxy E-coat protection prior to paint:

FILM TECHNICAL PROPERTIES		
PROPERTY	TEST METHOD	PERFORMANCE
Color	—	Black
Film Thickness	—	0.5 - 1.5 Mills
Gloss - 60 Degree	ASTM D523	65 - 85
Pencil Hardness	ASTM D3363	2H Minimum
Direct Impact	ASTM D2794	100 in. - lbs. Minimum
Reverse Impact	ASTM D2794	60 in. - lbs. Minimum
Crosshatch Adhesion	ASTM D3359	4B - 5B
Humidity	ASTM D1735	1000 Hours Minimum
Water Immersion	ASTM D870	250 Hours Minimum
Gravelometer	GM9508P	6 Minimum
Throwpower	GM9535P	12 - 15 in.
Cold rolled steel lab panels, Zinc Phosphate pretreatment, 0.6 mils average film thickness, cured 20 minutes @ 350°F.		
PROPERTY	SUBSTRATE PRETREATMENT	SALT SPRAY* 1000 HOURS
Corrosion Resistance	CRS / Zinc Phos / Non-Chrome	1 - 2 mm
*Salt Spray - ASTM B117; cold rolled steel lab panels cured 20 minutes @ 350°F. [Average Total Scribe Creep]		

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- Two (2) C-channel frame rails
- Two (2) frame liners

The E-coat process will meet the technical properties shown.

AXLE HUB PAINT

All axle hubs will be painted to match lower job color.

COMPARTMENT INTERIOR PAINT

The interior of all compartments will be painted with a gray spatter finish for ease of cleaning and to make it easier to touch up scratches and nicks.

REFLECTIVE STRIPES

Three (3) reflective stripes will be provided across the front of the vehicle and along the sides of the body. The reflective band will consist of a 1.00" white stripe at the top with a 1.00" gap then a 6.00" white stripe with a 1.00" gap and a 1.00" white stripe on the bottom.

REFLECTIVE STRIPE ON CAB FACE

The reflective band provided on the cab face will be located below the stainless steel trim band and above the front bumper.

REAR CHEVRON STRIPING

There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. Covered surfaces will include the exterior rear wall. Rear compartment doors, entry doors, or walkway areas will not be covered.

The colors will be red and fluorescent yellow green diamond grade.

Each stripe will be 6.00" in width.

This will meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface will be covered with chevron striping.

OUTLINE, REFLECTIVE STRIPE

A Black outline will be applied on the top and the bottom of the reflective band. There will be three (3) set of outline stripes required.

CAB DOOR REFLECTIVE STRIPE

A 6.00" x 16.00" fluorescent yellow green diamond grade reflective stripe will be provided across the interior of each cab door. The stripe will be located approximately 1.00" up from the bottom, on the door panel.

This stripe will meet the NFPA 1901 requirement.

CUSTOM CHASSIS RUST PROOF / UNDERCOAT

The rust proof/undercoat option will provide additional paint to the chassis frame rails and a protective coating that will help fight corrosion.

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Rust proof / Undercoat Process

A coating will be applied to the custom chassis once the cab, pump and body mounting angles have been installed. The coating texture will be waxy and pliable after drying so it will not chip, crack, or peel off during normal vehicle operations.

The rust proofing material will be the color black, and is a coating of a corrosion inhibitor for long-term protection against corrosion.

The material will be applied to the following areas:

- Outside of the chassis frame rails (top & side)
- Top of the frame rails
- Top of crossmembers
- Inside of the frame rails - in and around harnesses keeping coating off harnesses as best as possible
- Between the frame and liner - coating will be applied after frame and liner are assembled using a wand to apply material between as best as possible
- Top of the body mounting angles (including rear platform)
- Top of air tanks
- Top of fuel tank

FIRE APPARATUS PARTS MANUAL

There will be one (1) custom parts manual(s) in USB flash drive format for the complete fire apparatus provided.

The manual(s) will contain the following:

- Job number
- Part numbers with full descriptions
- Table of contents
- Parts section sorted in functional groups reflecting a major system, component, or assembly
- Parts section sorted in alphabetical order
- Instructions on how to locate parts

Each manual will be specifically written for the chassis and body model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.

Service Parts Internet Site

The service parts information included in these manuals are also available on the Pierce website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.

CHASSIS SERVICE MANUALS

There will be one (1) chassis service manuals on USB flash drives containing parts and service information on major components provided with the completed unit.

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The manual will contain the following sections:

- Job number
- Table of contents
- Troubleshooting
- Front Axle/Suspension
- Brakes
- Engine
- Tires
- Wheels
- Cab
- Electrical, DC
- Air Systems
- Plumbing
- Appendix

The manual will be specifically written for the chassis model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.

CHASSIS OPERATION CD MANUALS

There will be two (2) CD format chassis operation manuals provided.

ONE (1) YEAR MATERIAL AND WORKMANSHIP

A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.

ENGINE WARRANTY

A Cummins **five (5) year** limited engine warranty will be provided. A limited warranty certificate, WA0181, is included with this proposal.

STEERING GEAR WARRANTY

A TRW **one (1) year** limited steering gear warranty will be provided. A copy of the warranty certificate will be submitted with the bid package.

FIFTY (50) YEAR STRUCTURAL INTEGRITY

The Pierce custom chassis frame limited warranty certificate, WA0013, is included with this proposal.

FRONT AXLE WARRANTY

A Eaton **five (5)-year/100,000 mile** parts and labor warranty will be provided.

REAR AXLE WARRANTY

A Eaton **five (5)-year/100,000 mile** parts and labor warranty will be provided.

ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY

A Meritor Wabco™ ABS brake system limited warranty certificate, WA0232, is included with this proposal.

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TEN (10) YEAR STRUCTURAL INTEGRITY

The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.

TEN (10) YEAR PRO-RATED PAINT AND CORROSION

A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.

CAMERA SYSTEM WARRANTY

A Pierce fifty four (54) month warranty will be provided for the camera system.

COMPARTMENT LIGHT WARRANTY

The Pierce 12 volt DC LED strip lights limited warranty certificate, WA0203, is included with this proposal.

TRANSMISSION WARRANTY

The transmission will have a **five (5) year/unlimited mileage** warranty covering 100 percent parts and labor. The warranty will be provided by Allison Transmission.

Note: The transmission cooler is not covered under any extended warranty you may be getting on your Allison Transmission. Please review your Allison Transmission warranty for coverage limitations.

TRANSMISSION COOLER WARRANTY

The transmission cooler will carry a five (5) year parts and labor warranty (exclusive to the transmission cooler). In addition, a collateral damage warranty will also be in effect for the first three (3) years of the warranty coverage and will not exceed \$10,000 per occurrence. A copy of the warranty certificate will be submitted with the bid package.

FIFTEEN (15) YEAR STRUCTURAL INTEGRITY

The Pierce heavy duty rescue apparatus body limited warranty certificate, WA0010, is included with this proposal.

ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY

An AMDOR roll-up door limited warranty will be provided. The roll-up door will be warranted against manufacturing defects for a period of **ten (10) years**. A **five (5) year** limited warranty will be provided on painted roll up doors.

The limited warranty certificate, WA0185, is included with this proposal.

TEN (10) YEAR PRO-RATED PAINT AND CORROSION

A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.

VEHICLE STABILITY CERTIFICATION

The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1901, current edition, section 4.13, Vehicle Stability. The certification will be provided at the time of bid.

ENGINE INSTALLATION CERTIFICATION

The fire apparatus manufacturer will provide a certification, along with a letter from the engine manufacturer stating they approve of the engine installation in the bidder's chassis. The certification will be provided at the time of delivery.

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POWER STEERING CERTIFICATION

The fire apparatus manufacturer will provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification will be provided at the time of bid.

CAB INTEGRITY CERTIFICATION

The fire apparatus manufacturer will provide a cab crash test certification with this proposal. The certification will state that a specimen representing the substantial structural configuration of the cab has been tested and certified by an independent third party test facility. Testing events will be documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers, and a laser speed trap. The fire apparatus manufacturer will provide a state licensed professional engineer to witness and certify all testing events. Testing will meet or exceed the requirements below:

- European Occupant Protection Standard ECE Regulation No.29.
- SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks.
- SAE J2420 COE Frontal Strength Evaluation - Dynamic Loading Heavy Trucks.

Roof Crush

The cab will be subjected to a roof crush force of 22,500 lb. This value meets the ECE 29 criteria, and is equivalent to the front axle rating up to a maximum of ten (10) metric tons.

Side Impact

The same cab will be subjected to dynamic preload where a 13,275-lb moving barrier is slammed into the side of the cab at 5.50 mph, striking with an impact of 13,000 ft-lb of force. This test is part of the SAE J2422 test procedure and more closely represents the forces a cab will see in a rollover incident.

Frontal Impact

The same cab will withstand a frontal impact of 32,600 ft-lb of force using a moving barrier in accordance with SAE J2420.

Additional Frontal Impact

The same cab will withstand a frontal impact of 65,200 ft-lb of force using a moving barrier. (Twice the force required by SAE J2420)

The same cab will withstand all tests without any measurable intrusion into the survival space of the occupant area.

CAB DOOR DURABILITY CERTIFICATION

Robust cab doors help protect occupants. Cab doors will survive a 200,000 cycle door slam test where the slamming force exceeds 20 G's of deceleration. The bidder will certify that the sample doors similar to those provided on the apparatus have been tested and have met these criteria without structural damage, latch malfunction, or significant component wear.

WINDSHIELD WIPER DURABILITY CERTIFICATION

Visibility during inclement weather is essential to safe apparatus performance. Windshield wipers will survive a 3 million cycle durability test in accordance with section 6.2 of SAE J198 *Windshield Wiper*

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Systems - Trucks, Buses and Multipurpose Vehicles. The bidder will certify that the wiper system design has been tested and that the wiper system has met these criteria.

ELECTRIC WINDOW DURABILITY CERTIFICATION

Cab window roll-up systems can cause maintenance problems if not designed for long service life. The window regulator design will complete 30,000 complete up-down cycles and still function normally when finished. The bidder will certify that sample doors and windows similar to those provided on the apparatus have been tested and have met these criteria without malfunction or significant component wear.

SEAT BELT ANCHOR STRENGTH

Seat belt attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat belt anchor design will withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder will certify that each anchor design was pull tested to the required force and met the appropriate criteria.

SEAT MOUNTING STRENGTH

Seat attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat mounting design will be tested to withstand 20 G's of force in accordance with FMVSS 571.207 Seating Systems. The bidder will certify, at time of delivery, that each seat mount and cab structure design was pull tested to the required force and met the appropriate criteria.

PERFORMANCE CERTIFICATIONS**Cab Air Conditioning**

Good cab air conditioning temperature and air flow performance keeps occupants comfortable, reduces humidity, and provides a climate for recuperation while at the scene. The cab air conditioning system will cool the cab from a heat-soaked condition at 100 degrees Fahrenheit to an average of 78 degrees Fahrenheit in 30 minutes. The bidder will certify that a substantially similar cab has been tested and has met these criteria.

Cab Defroster

Visibility during inclement weather is essential to safe apparatus performance. The defroster system will clear the required windshield zones in accordance with SAE J381 Windshield Defrosting Systems Test Procedure And Performance Requirements - Trucks, Buses, And Multipurpose Vehicles. The bidder will certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.

Cab Auxiliary Heater

Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. An auxiliary cab heater will warm the cab 77 degrees Fahrenheit from a cold-soak, within 30 minutes when tested using the coolant supply methods found in SAE J381. The bidder will certify, at time of delivery, that a substantially similar cab has been tested and has met these criteria.

Pierce Saber HDR 38037

AMP DRAW REPORT

The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

The manufacturer of the apparatus will provide the following:

- Documentation of the electrical system performance tests.
- A written load analysis, which will include the following:
 - The nameplate rating of the alternator.
 - The alternator rating under the conditions specified per:
 - Applicable NFPA 1901 or 1906 (Current Edition).
 - The minimum continuous load of each component that is specified per:
 - Applicable NFPA 1901 or 1906 (Current Edition).
 - Additional loads that, when added to the minimum continuous load, determine the total connected load.
 - Each individual intermittent load.

All of the above listed items will be provided by the bidder per the applicable NFPA 1901 or 1906 (Current Edition).



Option List

4/6/2022

Customer: Pierce Field Unit (original)
Representative: Smits, Tom
Organization: Pierce Manufacturing Inc
Requirements Manager: Mori, Christina
Description: Saber Rescue 18.5' Body
Body: HDR, Non-Walk-In, Aluminum, Florida Stock Only
Chassis: Saber FR Chassis

Bid Number: 1858
Job Number: 38037
Number of Units: 1
Bid Date: 01/13/2022
Stock Number: 38037
Price Level: 40 (Current: 41)
Lane:

Line	Option	Type	Option Description	Qty
1	0010012		No Boiler Plates requested	1
2	0661794		Single Source Compliance	1
3	0584455		Manufacture Location, Bradenton, Florida	1
4	0584453		RFP Location: Bradenton, Florida	1
5	0588609		Vehicle Destination, US	1
6	0629866	SP	Comparison Report Required - PMFD	1
			Fill in Blank - 37964	
7	0610784		Comply NFPA 1901 Changes Effective Jan 1, 2016, With Exceptions	1
8	0533352		Special Services (Rescue) Fire Apparatus	1
9	0588614		Vehicle Certification, Rescue	1
10	0798898		Agency, Apparatus Certification, Rescue, Third Party, PMFD	1
11	0535579		Not Required, Unit of Measure, (no pump, no tank)	1
12	0030006		Bid Bond Not Requested	1
13	0540326		Performance Bond, Not Requested	1
14	0000007		Approval Drawing	1
15	0002928		Electrical Diagrams	1
16	0632451		Saber FR Chassis	1
17	0629024		Chassis Discount, Saber FR	1
18	0000110		Wheelbase	1
			Wheelbase - 208.00"	
19	0000070		GVW Rating	1
			GVW rating - 42,000	
20	0649713		Frame Rails, 10.25" x 3.50" x .375", Saber FR/Enf	1
21	0648354		Frame Liner, Internal "C", 9.38" x 3.13" x .25", Saber FR/Enf, 26" Qval	1
22	0635815		Axle, Front, Dana, D-2000F, 18,000 lb Saber FR/Enforcer	1
23	0637879		Suspension, Front, Standens, Taper Leaf, 18,000 lb, Saber FR/Enforcer	1
24	0000321		Shock Absorbers on Front Axle, Monroe Magnum 65, Saber/Enforcer	1
25	0000322		Oil Seals, Front Axle	1
26	0582936		Tires, Front, Goodyear, G289 WHA, 315/80R22.50, 20 ply	1
27	0019575		Wheels, Front, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot	1
28	0641555		Axle, Rear, Dana S23-190, 24,000 lb, Saber/Enforcer	1
29	0544253		Top Speed of Vehicle, 68 MPH	1
30	0565379		Suspen, Rear, Single Slipper Spring, 24,000 lb, Saber/Enforcer	1
31	0000485		Oil Seals, Rear Axle	1
32	0587216		Tires, Rear, Goodyear, G622 RSD, 12R22.50, 16 ply, Single	1
33	0019625		Wheels, Rear, Alcoa, 22.50" x 8.25", Aluminum, Hub Pilot, Single	1
34	0568081		Tire Balancing, Counteract Beads	1
35	0620570		Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Single Axle	1
			Qty, Tire Pressure Ind - 6	
36	0003245		Axle Hub Covers w/center hole, S/S, Front Axle	1
37	0001960		Axle Hub Covers, Rear, S/S, High Hat (Pair)	1
38	0057936		Covers, Lug Nut, Chrome	1
39	0002045		Mud Flap, Front and Rear, Pierce Logo	1
40	0544802		Chocks, Wheel, SAC-44-E, Folding	1
			Qty, Pair - 01	
41	0544806		Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal	1
			Qty, Pair - 01	
			Location, Wheel Chocks - Left Side Rear Tire, Forward	
42	0010670		ABS Wabco Brake System, Single rear axle	1
43	0690932		Brakes, Bendix, ADB22X, 17" Disc, Front	1
44	0581433		Brakes, Bendix, Cam, Rear, 16.50 x 7.00"	1

Line	Option	Type	Option Description	Qty
45	0020784		Air Compressor, Brake, Cummins/Wabco 18.7 CFM	1
46	0644232		Brake Reservoirs, 4,272 Cubic Inch Minimum Capacity, Saber FR/Enforcer	1
47	0644228		Air Dryer, Wabco System Saver 1200 IWT, Heated, 10" Frame, Standen, SFR/Enf	1
48	0000790		Brake Lines, Nylon	1
49	0000854		Air Inlet, w/Disconnect Coupling	1
			Location, Air Coupling(s) - a) DS Step Well, Forward	
			Qty, Air Coupling (s) - 1	
50	0736460		Engine, Cummins L9, 380 hp, 1150 lb-ft, W/OBD, EPA 2021, Saber FR/Enforcer	1
51	0001244		High Idle w/Electronic Engine, Custom	1
52	0687994		Engine Brake, Jacobs Compression Brake, Cummins Engine	1
			Switch, Engine Brake - e) ISC/ISM/ISL9/ISX Hi Med Lo	
53	0644227		Clutch, Fan, Air Actuated, Saber FR/Enforcer	1
54	0640477		Air Intake, Metal Screen, Saber FR/Enforcer	1
55	0794761		Exhaust System, 4", 2017 L9 Engine, Horizontal, Right Side	1
56	0788765		Radiator, Saber FR/Enforcer	1
57	0001090		Cooling Hoses, Rubber	1
58	0001125		Fuel Tank, 65 Gallon, Left Side Fill	1
59	0001129		Lines, Fuel	1
60	0582182		DEF Tank, 4.5 Gallon, DS Fill, Rear of Rear Axle, Common Door	1
			Door, Material & Finish, DEF Tank - Polished Stainless	
61	0723716		Fuel Priming Pump, Electronic, Automatic, Cummins, No Swt Req'd	1
62	0552712		Not Required, Shutoff Valve, Fuel Line	1
63	0699437		Cooler, Chassis Fuel, Not Req'd.	1
64	0642572		Trans, Allison 5th Gen, 3000 EVS P, w/Prognostics, Imp/Vel/DCF/SFR/Enf	1
65	0625329		Transmission, Shifter, 5-Spd, Push Button, 3000 EVS	1
66	0684459		Transmission Oil Cooler, Modine, External	1
67	0001370		Driveline, Spicer 1710	1
68	0635294		Steering, Single Gear, TRW TAS-85, w/tilt, Pump w/ Cooler, Saber FR/Enforcer	1
69	0605356		Steering Wheel, 4 Spoke without Controls, Saber FR/Enforcer	1
70	0681841		Logo/Emblem, Not Required	1
71	0059666		Winch, Warn, 9,000 lb. Portable Receiver Type	1
72	0012246		Bumper, 22" Extended, Saber FR/Enforcer	1
73	0625558		No Selection Required, Cover Included with Tray/Tool Box Option	1
74	0638048		Box, Tool w/cover, Right	1
			Stay arm, Tray Cover - b) Pneumatic Stay Arm	
			Latch, Bumper Storage - D ring latch	
75	0625556		Hose Restraint, Not Required, Cover Included with Other Option	1
76	0614646		No Lift & Tow Package, Imp/Vel, AXT, SFR/Enf	1
77	0002270		Tow Hooks, Chrome	1
78	0048682		Bumper, Center Section Hinged, w/Winch Receiver, w/Tray	1
79	0632360		Cab, Saber FR, 7010	1
80	0647919		Engine Tunnel, ISL, Saber FR/Enforcer	1
81	0633594		Rear Wall, Interior, Adjustable Seating	1
82	0632103		Rear Wall, Exterior, Cab, Saber FR/Enforcer	1
			Material, Exterior Rear Wall - Painted	
83	0644201		Cab Lift, Elec/Hyd, Saber FR/Enforcer	1
84	0636939		Grille, Polished Stainless Steel, Front of Cab, Saber	1
85	0647989		Trim, S/S Band, Across Cab Face, Arrow XT/Dash CF/Saber/Enforcer	1
			Material Trim/Scuffplate - e) S/S, Patterned	
86	0087357		Molding, Chrome on Side of Cab	1
87	0772130		Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex, Marker Light	1
88	0648170		Door, Half-Height, Saber FR/Enforcer 4-Door Cab, Raised Roof	1
			Key Model, Cab Doors - 751	
			Cab, Exterior Door Handle, Finish - 4-Door, Chrome/Black	
89	0655543		Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	1
90	0630636		Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	1
91	0638310		Steps, 4-Door Cab, Saber FR/Enforcer	1
			Step Well Material - Aluminum Treadplate	
92	0770194		Handrail, Exterior, Knurled, Alum, 4-Door Cab	1
93	0892638		Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	1
			Color, Trim - Chrome Housing	

Line	Option	Type	Option Description	Qty
94	0002141		Fenders, s/s on cab - Saber/Enforcer	1
95	0637984		Window, Side of C/C, Fixed, Saber FR/Enforcer	1
96	0012090		Not Required, Windows, Front/Side of raised roof	1
97	0779033		Not Required, Windows Rear of Crew Cab, Saber FR/Enforcer	1
98	0722796		Dash, Poly, Saber FR/Enforcer	1
99	0634206		Mounting Provisions, 1/4" Alum, Full Engine Tunnel, Saber FR/Enforcer	1
			Mounting Provision Spacing - 1.00"	
			Material Finish, Cab Interior - Painted	
100	0750824		Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	1
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Silver/Gray	
			Engine Tunnel Cover - Dark Silver Gray Endure Vinyl	
			Cab Interior Rear Wall Material - Painted Aluminum	
101	0753903		Cab Interior, Paint Color, Saber FR/Enforcer	1
			Color, Cab Interior Paint - i) fire smoke gray	
102	0052100		Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	1
103	0741237		HVAC, Saber FR, CARE	1
			HVAC System, Filter Access - Removable Panel	
			Auxiliary Cab Heater - Both	
			HVAC System, Control Loc. - Panel Position #12	
104	0639675		Sun Visor, Smoked Lexan, AXT, Imp/Vel, Saber FR/Enforcer	1
			Sun Visor Retention - Thumb Latch	
105	0634328		Grab Handles, Driver and Officer Door Posts, Saber FR/Enforcer	1
106	0583938		Lights, Engine Compt, Custom, Auto Sw, WIn 3SC0CDCR, 3" LED, Trim	1
			Qty, - 01	
107	0631830		Fluid Check Access, Saber FR/Enforcer, Arrow XT	1
			Latch, Door, Storage -	
108	0583042		Side Roll and Frontal Impact Protection	1
109	0622617		Seating Capacity, 6 Seats	1
110	0636955		Seat, Driver, Pierce PSV, Air Ride, High Back, Safety, Saber FR/Enforcer	1
111	0636942		Seat, Officer, Pierce PSV, Fixed, SCBA, Safety, Saber FR/Enforcer	1
112	0620420		Radio Compartment, Below Non-Air Ride Seat, Saber FR/Enforcer	1
			Latch, Door, Storage -	
113	0635973		Seat, Rear Facing C/C, DS Outboard, Pierce PSV, SCBA, Safety, Saber FR/Enforcer	1
114	0102783		Not Required, Seat, Rr Facing C/C, Center	1
115	0635969		Seat, Rear Facing C/C, PS Outboard, Pierce PSV, SCBA, Safety, Saber FR/Enforcer	1
116	0108189		Not Required, Seat, Forward Facing C/C, DS Outboard	1
117	0635957		Seat, Forward Facing C/C, Center, (2) Pierce PSV, SCBA, Safety, Saber FR/Enf	1
118	0108190		Not Required, Seat, Forward Facing C/C, PS Outboard	1
119	0766467		Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE	6
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Silver/Gray	
			Qty, - 06	
120	0543991		Bracket, Air Bottle, Hands-Free II, Cab Seats	5
			Qty, - 05	
121	0603866		Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	1
			Seat Belt Color - Red	
122	0602464		Helmet Storage, Provided by Fire Department, NFPA 2016	1
123	0647647		Lights, Dome, FRP Dual LED 4 Lts	1
			Color, Dome Lt - Red & White	
			Color, Dome Lt Bzl - Black	
			Control, Dome Lt White - Door Switches and Lens Switch	
			Control, Dome Lt Color - Lens Switch	
124	0602637		Portable Hand Light, Provided by Fire Dept, Pumper NFPA 2016 Classification	1
125	0644187		Cab Instruments, Black Gauges, Black Bezels, Saber FR/Enforcer	1
			Emergency Switching - Individual Switches	
126	0002544		Air Restriction Indicator - Pierce Chassis	1
127	0543751		Light, Do Not Move Apparatus	1
			Alarm, Do Not Move Truck - Pulsing Alarm	
128	0637359		Not Required, Door Open Indicator w/Do Not Move Truck Light, Enf/Saber FR	1
129	0754774		Switching, Cab Instrument Lower Console & Overhead, Rocker, Saber	1
130	0644179		Wiper Control, 2-Speed with Intermittent, Saber FR/Enforcer	1

Line	Option	Type	Option Description	Qty
131	0797189		Wiring, Spare, 4.8 A 12V DC, USB Termination Blue Sea 1045 1st	1
			Qty, - 01	
			12vdc power from - Battery direct	
			Location - panel position #14	
132	0548004		Wiring, Spare, 15 A 12V DC 1st	1
			Qty, - 01	
			12vdc power from - Battery direct	
			Wire termination - 15 amp power point plug	
			Location, Spare Wiring - panel position #14	
133	0763646		Vehicle Information Center, LCD On Gauge Cluster Only, Sab/Enf	1
			System Of Measurement - US Customary	
134	0734854		Collision Mitigation, Not Requested	1
135	0610240		Vehicle Data Recorder w/Seat Belt Monitor	1
136	0696439		Antenna Mount, Custom Chassis, Cable Routed to Instrument Panel Area	2
			Qty, - 02	
			Location, Antenna Mount - Left And Right Side	
137	0653533		Camera, Pierce, 7" LCD, Rear Camera Only	1
			Location, Camera Monitor - Driver Side In Custom Dash	
138	0624249		Electrical Power/Signal Protection & Control, Saber FR	1
139	0624260		Electrical System, Saber FR	1
140	0079166		Batteries, (4) Exide Grp 31, 950 CCA ea, Threaded Stud	1
141	0008621		Battery System, Single Start, All Custom Chassis	1
142	0002698		Battery Compartment, Saber/Enforcer	1
143	0531315		Charger, Sngl Sys, IOTA, DSL-75, 75 Amp, Kussmaul 091-94-12 Ind, Qtm/Enf/SFR	1
144	0662220		Location, Charger, Cab Behind Driver Seat, Dash CF/Saber FR/Enf	1
145	0530951		Location, Bat Chrg Ind, DS Behind Cab Door	1
146	0016857		Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super	1
			Qty, - 01	
			Color, Kussmaul Cover - b) red	
			Shoreline Connection - Battery Charger	
147	0020168		Shoreline Cab Loc, Cab, Saber FR	1
			Location, Shoreline(s) - DS Cab Side	
148	0009429		Electric Power Only, Portable Winch	3
			Location - at all receiver locations	
			Qty, Receptacles - 03	
149	0658019		Alternator, 360 amp, Niehoff C531/C537	1
150	0644176		Load Manager, Integrated In Electrical System, Saber FR/Enforcer	1
151	0783157		Headlights, Rect LED, JW Spkr Evo 2, Heat, AXT/DCF/Enf/Imp/Sab/Vel	1
			Color, Headlight Bez - Chrome Bezel	
152	0648426		Light, Directional, WIn 60A00TAR Arrow, Common Bzl, Above Headlts,Sab/Enf	1
			Color, Lens, LED's - Clear	
153	0620054		Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	1
154	0647802		Lights, Clearance/Marker/ID, Front, P25 LED 5 Lts, Saber FR/Enforcer	1
155	0647899		Lights, Directional/Marker, Cab Front Side, Weldon 9186-8580-29 LED, Sab/Enf	1
156	0627282		Lights, Clearance/Marker/ID, Rear, FRP LED Bar & P25 LED 4Lts	1
157	0551870		Lights, Tail, WIn M6BTT* Red LED Stop/Tail & M6T* Amber LED Dir w/Flange	1
			Color, Lens - Colored	
158	0551758		Lights, Backup, WIn M6BUW, LED, Flange Feature	1
			Flange Kit - w)with flange	
159	0664481		Bracket, License Plate & Light, P25 LED	1
160	0589905		Alarm, Back-up Warning, PRECO 1040	1
161	0769569		Lights, Perimeter Cab, Amdor AY-LB-12HW012 LED 4Dr	1
162	0616293		Not Required, Lights Perimeter Pump House, No Pump	1
163	0770056		Lights, Perimeter Body, Amdor AY-LB-12HW020 LED 2lts, Rear Step	1
			Control, Perimeter Lts - Parking Brake Applied	
164	0602664		Lights, Step, P25 LED, HDR-NWI, Rear & Rec Walkway, Prk Brk	1
165	0776357		Light, Visor, WIn, 12V P*H2* Pioneer, Cnt Feature, 1st	1
			Qty, - 01	
			Location, driver's/passenger's/center - Centered	
			Color, WIn Lt Housing - White Paint	
			Control, Scene Lts - Cab Sw Panel DS and Cab Sw Panel PS	
			Scene Light Optics - Flood/Spot	

Line	Option	Type	Option Description	Qty
166	0763608		Lights, Wln, PCPSM2*, Pioneer, 12 VDC, 2nd Location - passenger side of body, above RS1 and RS4 Qty, - 02 Color, Wln Lt Housing - Chrome Cover Control, Scene Lts - PS Scene Lts	2
167	0766905		Lights, Wln, PCPSM1*, Pioneer, 12 VDC, 2nd Location - behind passengers door, above side crew cab window. Qty, - 01 Color, Wln Lt Housing - Chrome Cover Control, Scene Lts - Cab Sw Panel DS and Cab Sw Panel PS	1
168	0763610		Lights, Wln, PCPSM2*, Pioneer, 12 VDC, 1st Location - driver side of body, above compartments LS1 and LS4 Qty, - 02 Color, Wln Lt Housing - Chrome Cover Control, Scene Lts - DS Scene Lts	2
169	0766906		Lights, Wln, PCPSM1*, Pioneer, 12 VDC, 1st Location - behind drivers door, above side crew cab window. Qty, - 01 Color, Wln Lt Housing - Chrome Cover Control, Scene Lts - Cab Sw Panel DS and Cab Sw Panel PS	1
170	0748321		Lights, Wln, PCPSM2*, Pioneer, 12 VDC, 3rd Location - rear body bulkheads, one each side, below the upper Whelen M9 warning lights Qty, - 02 Color, Wln Lt Housing - Chrome Cover Control, Scene Lts - Cab Sw Panel DS, Cab Sw Panel PS and Body Switch, DS Rear Bulkhead	2
171	0004961		Not Required, Work Lights, Alt. Rear Lights, HDR/Encore, No Hose Bed	1
172	0645677		Lights, Not Required, Rear Work, Alt. 12 Volt Lights At Rear Body	1
173	0795742		Not Required, Walking Surface, Alt. Walking Surface Lights, HDR	1
174	0892213	SP	HDR, Non-Walk-In, Aluminum, Florida Stock Only	1
175	0020741		18.5' Body Length, 48.48.57.48, NWI	1
176	0656687		96" Body Width, NWI	1
177	0018367		90" Body Height, NWI	1
178	0617576		NWI, Hatch, Recessed Walkway & Recessed Area Configuration of Hatch Compartments - 1.) Two Each Side	1
179	0594265		Doors, Amdor, Roll-up, Side Compartments Qty, Door Accessory - 08 Color, Roll-up Door - AMDOR Painted to Match Lower Body Latch, Roll-up Door - Non-Locking Liftbar	8
180	0041734		18.5' Body Roll Doors, 48.48.57.48, NWI	1
181	0010473		Left Forward Compt, 48" & 48" Roll, NWI	1
182	0018724		Left Over Wheel Compt, 57", Roll, NWI	1
183	0018738		Left Rear Compt, 48" Roll, NWI	1
184	0018781		Right Forward Compt, 48" & 48", Roll, NWI	1
185	0018816		Right Over Wheel Compt, 57" Roll, NWI	1
186	0018830		Right Rear Compartment, 48" Roll, NWI	1
187	0788203		Rear Compt, Roll Door, AMDOR, Single Axle Color, Roll-up Door - AMDOR Satin Aluminum Latch, Roll-up Door - Non-Locking Liftbar	1
188	0892199	SP	Audio/Video Network Not Provided, Stock Rescue	1
189	0090569		Hitch, Receiver, Sides, Under Body, Rearward of Rear Axle Location - behind rear axle, one each side of truck.	1
190	0033977		Ladder, Access, Zico Quic-Ladder, Model RL-2-6 Location, driver's/passenger's/center - Right Side	1
191	0075036		Box, Tool, Poly, Custom Size Location - P3 Qty, - 04 Dimensions - to fit in the floor mounted tray in P3.	4
192	0541051		Rack, Stokes/Stretcher Basket, Horizontal Trough(s) Location - R1 compartment near ceiling (Horizontal) Dimensions - 26" wide x 84" long X 10" high Restraint, Equipment Rack - Strap Qty, Stokes Troughs - 1	1

Line	Option	Type	Option Description	Qty
193	0794489		Bumper, Rear, Non-Walk-In 13.00" D	1
194	0793822		Not Required, Water Tank, Rescue	1
195	0023410		Not Required, Overflow	1
196	0028107		Not Required, Foam Cell Modification	1
197	0553729		Not Required, Restraint, Water Tank, Heavy Duty	1
198	0013534		Not Required, Running Boards	1
199	0690026		Wall, Rear, Body Material	1
200	0003540		Tow Eyes (2) (Tanker/Rescue)	1
201	0019845		Guard, Drip Pan, S/S, Rollup Door	8
			Qty, Door Accessory - 08	
			Location, Door Accessory - all body compartments	
202	0795390		Pull Strap for Rollup Doors, Amdor Flex-HD	9
			Location - all body compartment doors, including rear door	
			Qty, Door Accessory - 09	
203	0689547		Lights, Compt, Pierce LED, Dual Light Strips, Each Side of Door, HDR	9
			Qty, - 09	
204	0606068		Lights, Hatch Compt, Pierce LED Strip Lights, HDR	1
205	0652247		Shelf, Adjustable, 500 lb Capacity, Standard Depth, HDR	1
			Qty, Shelf - 01	
			Location, Shelf - RS1	
			Material Finish, Shelf - Painted - Spatter Gray	
206	0652244		Shelf, Adjustable, 500 lb Capacity, 1/2 Trans, HDR	2
			Qty, Shelf - 02	
			Location, Shelf - LS3, RS3	
			Material Finish, Shelf - Painted - Spatter Gray	
207	0652269		Tray, 500 lb, Slide-out, 1-Way, Utility, Adj Height, 3" Sides, 1/2 Trans, HDR	2
			Location - LS3, RS3	
			Qty, Tray (slide-out) - 02	
			Material Finish, Tray - Painted - Spatter Gray	
208	0652275		Tray, 500 lb, Slide-out, 1-Way, Utility, Adj Ht, 3" Sides, 110" D, Rear Compt	1
			Location - B1	
			Qty, Tray (slide-out) - 01	
209	0652264		Tray, 500 lb, Slide-out, 2-Way, Utility, Adj Height, 3" Sides, Full Trans, HDR	2
			Location - LS4 & RS4	
			Qty, Tray (slide-out) - 02	
			Material Finish, Tray - Painted - Spatter Gray	
210	0652263		Tray, 200 lb, Tilt/Slide-out, 30 Deg, Adj, Standard Depth compt, HDR	2
			Location - RS2 & LS2	
			Qty, Tray (slide-out) - 02	
			Material Finish, Tray - Painted - Spatter Gray	
211	0652262		Tray, 200 lb, Tilt/Slide-out, 30 Deg, Adj, 1/2 Trans, HDR	2
			Location - LS4 & RS4	
			Qty, Tray (slide-out) - 02	
			Material Finish, Tray - Painted - Spatter Gray	
212	0646980		Tray, Floor Mounted, Slide-Out, Standard Depth Compt, 500lb, 2.00" Sides, HDR	6
			Qty, - 06	
			location - B1, LS3, LS4, RS1, RS3, RS4	
			Material Finish, Tray - Painted - Spatter Gray	
213	0648489		Toolboard, Slide-out, Alum, .188", Peg Board, Standard Depth, HDR	2
			Finish - Painted, Compt Interior, Spatter Gray	
			location - LS1	
			Qty - 2	
214	0004016		Rub Rail, Aluminum Extruded, Side of Body	1
215	0004024		Fender Crowns, Rear, S/S	1
216	0519849		Not Required, Hose, Hard Suction	1
217	0585383		Handrail, Extra, L-Shaped, 40.00" x 20.00"	1
			Location, Handrails - on the officer side rear hatch compartment to assist with the rear access ladder.	
			Qty, Handrails - 01	
218	0004210		Compt, Air Bottle, Fender Panel	3
			Location, Bracket/comp. - One in driver side fender panel, two in passenger side fender panel, one in front and one behind rear axle.	
			Qty, Air Bottle Comp - 3	
219	0044229		No Extension Ladder Req'd	1

Line	Option	Type	Option Description	Qty
220	0074231		No Roof Ladder Req'd	1
221	0074248		Not Required, Folding Ladder	1
222	0540739		Not Required, Rack, Equipment Storage, Rear Compt	1
223	0663639		Not Required, Rear Step	1
224	0518339		Not Required, Pump House, Rescue	1
225	0092531		Not Required, Pump House Structure	1
226	0796159		Not Required, Pump, Rescue	1
227	0012216		No Seal/Packing Required	1
228	0012690		Not Required, Trans, Pump	1
229	0669703		Not Required, Pumping Mode	1
230	0024484		Not Required, Pump Shift	1
231	0046295		Transmission Lock-up, Not Req'd, NO PUMP	1
232	0046296		Not Required, Auxiliary Cooling System, NO PUMP	1
233	0046283		Not Required, Transfer Valve, NO PUMP	1
234	0024513		Not Required, Intake Relief Valve	1
235	0046403		No Relief Valve Req'd, No Pump	1
236	0012336		No Pump Primer Req'd	1
237	0012816		Not Required, Pump Manuals	1
238	0090789		Not Required, Plumbing, No Pump	1
239	0046371		Not Required, No Plumbing or Foam System	1
240	0796254		No Main Inlet Required, Rescue No Pump	1
241	0584002		Not Required, Cap, Main Pump Inlet, No Side Inlet Caps Required, No Pump	1
242	0089389		No Valves, (No Pump)	1
243	0074685		Not Required, Inlet Installation	1
244	0064700		Not Required, Inlet Control	1
245	0055600		Not Required, Auxiliary Inlet, Left Side	1
246	0029147		Not Required, Inlet, Right Side	1
247	0681723		No Bleeder Valve, No Pump	1
248	0681730		Not Required, Tank to Pump, No Pump	1
249	0074900		Not Required, Tank Fill	1
250	0089394		Not Required, Outlet Control, No Pump	1
251	0551181		Not Required, Outlet, Left Side, Rescue	1
252	0055095		Not Required, Elbow, Left Side Outlets, 2.50"	1
253	0092570		Not Required, Outlets, Left Side Additional	1
254	0021143		Not Required, Outlet, Right Side	1
255	0021134		Not Required, Elbow, Right Side Outlets	1
256	0092571		Not Required, Outlets, Right Side Additional	1
257	0089584		Not Required, Elbow, Right Side Outlets, Additional	1
258	0545326		Not Required, Outlet, Large Diameter, No Pump	1
259	0007308		Not Required, Elbow, Large Diameter Outlet	1
260	0092572		Not Required, Outlet, Front	1
261	0092575		Not Required, Outlet, Rear	1
262	0045099		Not Required, Elbow, Rear Outlets	1
263	0092574		Not Required, Outlet, Rear, Additional	1
264	0728255		Not Required, Caps/Plugs for 1.00" to 3.00" Discharges/Inlets	1
265	0089391		Valve, Bleeder - None Req'd, (No Pump)	1
266	0029106		Not Required, Deluge Outlet	1
267	0029302		No Monitor Requested	1
268	0029304		No Nozzle Req'd	1
269	0029107		No Deluge Mount	1
270	0723726		Speedlay Module Not Required	1
271	0722432		Hose Restraint Not Required, No Speedlay Module	1
272	0723395		Speedlays, Not Required	1
273	0723394		Speedlays, Not Required	1
274	0519936		Not Required, 1.50" Crosslays, Rescue	1
275	0500535		Not Required, Hose Restraint, Crosslay	1
276	0029260		Not Required, Speedlays	1
277	0750536		Hose Restr, Spdly, Not Required, No Spdly	1
278	0046372		Not Required, Foam System, Pump, or Plumbing	1
279	0012126		Not Required, CAF Compressor	1

Line	Option	Type	Option Description	Qty
280	0552517		Not Required, Refill, Foam Tank	1
281	0042573		Not Required, Foam System Demonstration	1
282	0045465		Not Required, Foam Tanks	1
283	0091110		Not Required, Foam Tank Drain	1
284	0091079		Not Required, Foam Tank #2	1
285	0091112		Not Required, Foam Tank #2 Drain	1
286	0738072		Approval Dwg, Pump Panel(s), Not Required	1
287	0000261		Not Required, Pump Panel Layout	1
288	0030701		Not Required, Material, Pump Panels, No Panel	1
289	0046495		Not Required, Pump Access, No Pump	1
290	0634458		Not Required, No Chassis Engine Gauges @ Pump Panel	1
291	0046400		Throttle, Engine, Not Required, No Pump/Skid Pump	1
292	0892618		Not Required, Indicator Light, Pump Panel, No Pump or Skid Pump	1
293	0046378		Not Required, Gauges, Vac/Pressure, No Pump	1
294	0046375		Not Required, Gauges, No Pump	1
295	0006774		Not Required, Foam Level Gauge	1
296	0046280		Not Required, Light Shield, No Pump	1
297	0606697		Air Horns, (2) Grover, In Bumper	1
298	0606835		Location, Air Horns, Bumper, Each Side, Outside Frame, Outboard (Pos #1 & #7)	1
299	0757092		Control, Air Horn, Multi Select	1
300	0743677		Control, Air Horn, Push Button Sw, RS Location Fet	1
			Location - panel position 14	
301	0757084		Control, Air Horn, Horn Ring	1
302	0534828		Siren, Wln 295SL101, 100 or 200W Removable Mic	1
303	0790527		Location, Electronic Siren, Center Dash Switch Panel, Saber FR	1
			Location, Electronic Siren - switch panel # 7	
304	0076156		Control, Elec Siren, Head Only	1
305	0601304		Speaker, (2) Wln, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	1
			Connection, Speaker - siren head	
306	0601558		Location, Speaker, Frt Bumper, Recessed, Ea Side, Outside Frame, Inbrd (Pos 2/6)	1
307	0895310		Siren, Federal Q2B	1
			Finish, Q2B Siren - Chrome	
308	0006095		Siren, Mechanical, Mounted Above Deckplate	1
			Location, Siren, Mech - a) Left	
309	0748305		Control, Mech Siren, Multi Select	1
310	0748279		Control Mech Siren, Push Button Sw, RS	1
311	0748282		Control Mech Siren, Ft Sw LS	1
312	0736164		Sw, Siren Brake, Momentary, LS Overhead Sw Pnl	1
313	0736165		Sw, Siren Brake, Momentary, RS Overhead Sw Pnl	1
314	0746353		Not Required, Warning Lights Intensity	1
315	0606775		Lightbar, Wln, Freedom IV-Q, 72", RRWRRR____RRRWRR	1
			Filter, Whl Freedom Ltbrs - No Filters	
316	0016380		No Additional Lights Req'd, Side Zone Upper	1
317	0540384		Lights, Front Zone, Wln M6*C LED, Clear Lens, in Common Bzl	1
			Color, Lt DS Front - Red	
			Color, Lt PS Front - Red	
318	0653937		Flasher, Headlight Alternating	1
			Headlt flash deactivation - a)w/high beam	
319	0795711		Lights, Side Zone Lower, Wln M6*C LED, Clear Lens, 3pr, Ovr 25, Rescue	1
			Location, Lights Front Side - b)each side bumper	
			Color, Lt Side Front - Red	
			Color, Lt Side Middle - Red	
			Color, Lt Side Rear - Red	
			Location, Lights Mid Side - Over Front Wheels	
			Location, Lights Rear Side - Over Rear Wheels	
320	0745867		Lights, Side, Wln M9** LED, Trm Fet 1st	2
			Location, Lights - upper front body corner, one each side of truck.	
			Qty, - 02	
			Color, Lights, Warning - Red	
			Control, Light - b) side warning	
			Color, Lens, LED's - Clear	
			Color, Trim - Chrome Trim	

Line	Option	Type	Option Description	Qty
321	0540783		Lights, Rear Zn Lwr, WIn M6*C LED	1
			Color, Lt DS Rear - r) DS Rear Lt Red	
			Color, Lt PS Rear - r) PS Rear Lt Red	
322	0734069		Lights, Rear/Side Up Zone, WIn M9** M9** M9** M9** 4lts	1
			Color, Lens, LED's - Clear	
			Color, Lt, Side Rear Upper DS - Red	
			Color, Lt, Side Rear Upper PS - Red	
			Color, Lt, Rear Upper DS - Red	
			Color, Lt, Rear Upper PS - Red	
			Color, Trim - Chrome Trim	
323	0006551		Not Required, Lights, Rear Upper Zone Blocking	1
324	0791528		Light, Traffic Directing, WIn TAL65, 36.00" Long, TACTL5	1
			Activation, Traffic Dir L - Aux Flash with Rear Zone Up and Park Brake	
325	0529858		Location, Traf Dir Lt, Recessed Within Trdplt Step	1
326	0530282		Location, Traf Dir Lt Controller, Overhead Switch Panel DS Right End	1
327	0519934		Not Required, Brand, Hydraulic Tool System	1
328	0649753		Not Required, PTO Driven Hydraulic Tool System	1
329	0007150		Bag of Nuts and Bolts	1
			Qty, Bag Nuts and Bolts - 1	
330	0602524		NFPA Required Loose Equipment, Special Services, NFPA 2016, Provided by Fire Dept	1
331	0796255		Not Required, Soft Suction, Rescue No Pump	1
332	0602533		Extinguisher, Dry Chemical, Special Services, NFPA 2016, Provided by Fire Dept	1
333	0602351		Extinguisher, 2.5 Gal. Press Water, Special Service, NFPA 2016, Prov by Fire Dept	1
334	0607712		Paint Process / Environmental Requirements, PMFD	1
335	0568515		Paint, Two Tone Cab, #90 Red & #10 White, Saber PMFD	1
			Paint Color - Commercial, PMFD - #90 Candy Apple Red	
			Paint Color-Upper-PMFD - #10 white	
336	0646901		Paint Chassis Frame Assy, With Liner, E-Coat, Standard	1
			Paint Color, Frame Assembly, Predefined - Standard Black	
337	0693797		No Paint Required, Aluminum Front Wheels	1
338	0693792		No Paint Required, Aluminum Rear Wheels	1
339	0733739		Paint, Axle Hubs	1
			Paint, Axle Hub - Lower Job Color	
340	0007230		Compartment, Painted, Spatter Gray	1
341	0544129		Reflective Band, 1"-6"-1"	1
			Color, Reflect Band - A - a) white	
			Color, Reflect Band - B - l) white	
			Color, Reflect Band - C - w) white	
342	0077356		Reflective, Cab Face, Below the S/S Trim Band	1
343	0536955		Stripe, Chevron, Rear, Diamond Grade, Rescue	1
			Color, Rear Chevron DG - fluorescent yellow green	
344	0027461		Stripe, Color Outline, Vinyl on Reflective Band	3
			Qty, - 03	
			Color, Vinyl Stripe - 4) Black	
345	0593225		Stripe, Reflective, Cab Doors Interior, Diamond Grade	1
			Color, Reflect Band - A - p) fluorescent yellow green diamond grade	
346	0027286		Not Required, Lettering Specs	1
347	0007472		[Lettering not Requested]	1
348	0602070		Rust Proof/Undercoat, Saber Chassis, PMFD	1
			Color, Undercoating - Black	
349	0772003		Manual, Fire Apparatus Parts, USB Flash Drive, Custom	1
			Qty, - 01	
350	0772037		Manual, Chassis Service, USB Flash Drive, Custom	1
			Qty, - 01	
351	0531638		Manual, Two (2) CD, Chassis Operation, Custom	1
352	0030008		Warranty, Basic, 1 Year, Apparatus, WA0008	1
353	0696698		Warranty, Engine, Cummins, 5 Year, WA0181	1
354	0684952		Warranty, Steering Gear, TRW Ross TAS, 1 Year WA0202	1
355	0596017		Warranty, Frame, 50 Year, Custom Chassis, WA0013	1
356	0610471		Warranty, Axle, Eaton/Dana, 5 Year/100,000 Mile, Parts and Labor	1
357	0610485		Warranty, Axle, Eaton/Dana, 5 Year/100,000 Mile, Parts and Labor	1
358	0652758		Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	1

Line	Option	Type	Option Description	Qty
359	0019914		Warranty, Structure, 10 Year, Custom Cab, WA0012	1
360	0595813		Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	1
361	0695416		Warranty, Pierce Camera System, WA0188	1
362	0647720		Warranty, Pierce LED Strip Lights, WA0203	1
363	0046369		Warranty, 5-year EVS Transmission, Standard Custom, WA0187	1
364	0685945		Warranty, Transmission Cooler, WA0216	1
365	0033401		Not Required, Tank Warranty	1
366	0596024		Warranty, Structure, 15 Year, HDR, WA0010	1
367	0693126		Warranty, AMDOR, Roll-up Door, 10 Year/5 Year Painted, WA0185	1
368	0012599		Warranty, Pump, Not Required	1
369	0046370		Not Required, Warranty, No Plumbing	1
370	0641372		Warranty, Foam System, Not Available	1
371	0595820		Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	1
372	0593921		Not Required, Warranty, No Lettering	1
373	0683627		Certification, Vehicle Stability, CD0156	1
374	0736238		Certification, Engine Installation, Saber FR/Enf, Cummins L9, 2021	1
375	0686786		Certification, Power Steering, CD0098	1
376	0631980		Certification, Cab Integrity, Saber FR/Enforcer, CD0130	1
377	0631973		Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	1
378	0631978		Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	1
379	0631974		Certification, Electric Window Durability, Saber FR/Enforcer, CD0133	1
380	0631977		Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	1
381	0735949		Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	1
382	0545073		Amp Draw Report, NFPA Current Edition	1
383	0002758		Amp Draw, NFPA/ULC Radio Allowance	1
384	0799247		Appleton/Florida Stock Unit	1
385	0000031		HDR BODY	1
386	0000012		PIERCE CHASSIS	1
387	0004713		ENGINE, OTHER	1
388	0046395		EVS 3000 Series TRANSMISSION	1
389	0020037		NO PUMP	1
390	0020013		NO WATER TANK	1
391	0028047		NO FOAM SYSTEM	1
392	0046282		Not Required, Control Panel, No Pump	1
393	0020007		AKRON VALVES	1
394	0020015		ABS SYSTEM	1
395	0752883		HDR	1

Siddons Martin Emergency Group, LLC
3500 Shelby Lane
Denton, TX 76207
GDN P115891
TXDOT MVD No. A115890

April 6, 2022

**FORT BEND COUNTY OFFICE OF
 EMERGENCY MANAGEMENT
 307 FORT ST.
 RICHMOND, TX 77469**



Proposal For: 2022 Fort Bend County FMO - Rescue

Siddons-Martin Emergency Group, LLC is pleased to provide the following proposal to FORT BEND COUNTY OFFICE OF EMERGENCY MANAGEMENT. Unit will comply with all specifications attached and made a part of this proposal. Total price includes delivery FOB FORT BEND COUNTY OFFICE OF EMERGENCY MANAGEMENT and training on operation and use of the apparatus.

Description	Amount
Qty. 1 - 38036 / 38037 - Pierce-Custom Saber FR Rescue, Non-Walk-In	
(Unit Price - \$621,112.00)	
Delivery within 8-9 months of order date	
QUOTE # - SMEG-0003513-3	
Vehicle Price	\$621,112.00
Chassis Prepay Discount	(\$8,500.00)
Full Prepay Discount	(\$2,666.00)
Build Out Allowance	\$40,054.00
38036 / 38037 - UNIT TOTAL	\$650,000.00
SUB TOTAL	\$650,000.00
TOTAL	\$650,000.00

Price guaranteed until 4/30/2022

Additional: This proposal is valid for stock Saber rescues, 38036 and 38037. Both are identical trucks, availability for either of these is on a first come first serve basis. Truck is priced as-is, based on the Option List and Specifications that we have provided including a Build Out allowance. In order to receive the chassis and full prepayment discounts, 100% of payment must be made at the time of order.

Taxes: Tax is not included in this proposal. In the event that the purchasing organization is not exempt from sales tax or any other applicable taxes and/or the proposed apparatus does not qualify for exempt status, it is the duty of the purchasing organization to pay any and all taxes due. Balance of sale price is due upon acceptance of the apparatus at the factory.

Late Fee: A late fee of .033% of the sale price will be charged per day for overdue payments beginning ten (10) days after the payment is due for the first 30 days. The late fee increases to .044% per day until the payment is received. In the event a prepayment is received after the due date, the discount will be reduced by the same percentages above increasing the cost of the apparatus.

Cancellation: In the event this proposal is accepted and a purchase order is issued then cancelled or terminated by Customer before completion, Siddons-Martin Emergency Group may charge a cancellation fee. The following charge schedule based on costs incurred may be applied:

- (A) 10% of the Purchase Price after order is accepted and entered by Manufacturer;
- (B) 20% of the Purchase Price after completion of the approval drawings;
- (C) 30% of the Purchase Price upon any material requisition.

The cancellation fee will increase accordingly as costs are incurred as the order progresses through engineering and into manufacturing. Siddons-Martin Emergency Group endeavors to mitigate any such costs through the sale of such product to another purchaser; however, the customer shall remain liable for the difference between the purchase price and, if applicable, the sale price obtained by Siddons-Martin Emergency Group upon sale of the product to another purchaser, plus any costs incurred by Siddons-Martin to conduct such sale.

Acceptance: In an effort to ensure the above stated terms and conditions are understood and adhered to, Siddons-Martin Emergency Group, LLC requires an authorized individual from the purchasing organization sign and date this proposal and include it with any purchase order. Upon signing of this proposal, the terms and conditions stated herein will be considered binding and accepted by the Customer. The terms and acceptance of this proposal will be governed by the laws of the state of Texas. No additional terms or conditions will be binding upon Siddons-Martin Emergency Group, LLC unless agreed to in writing and signed by a duly authorized officer of Siddons-Martin Emergency Group, LLC.

Sincerely,



Cory Frankum

I, _____, the authorized representative of FORT BEND COUNTY OFFICE OF EMERGENCY MANAGEMENT, agree to purchase the proposed and agree to the terms of this proposal and the specifications attached hereto.

Signature & Date

EXHIBIT B



COUNTY PURCHASING AGENT
Fort Bend County, Texas

Jaime Kovar
County Purchasing Agent

(281) 341-8640
Fax (281) 341-8645

March 17, 2022

TO: All Prospective Bidders

RE: Addendum No.1 – Fort Bend County RFP 22-053 – Hazmat Response Vehicle

Addendum 1:

Attached is addendum 1. Vendors are to download and provide the Addendum 1 document with their solicitation response. Sections 1.0 and 7.0 have been amended.

Immediately upon your receipt of this addendum, please fill out the following information and email this page to Olivia Rios at Olivia.Rios@fortbendcountytexas.gov.

Company Name

Signature of person receiving addendum

Date

If you have any questions, please contact this office.

Sincerely,

Cheryl Krejci
Senior Buyer

***Amended 3/17/22**

***Fort Bend County, Texas
Request for Proposals***



***Hazmat Response Vehicle for Homeland Security & Emergency Management
RFP 22-053***

SUBMIT PROPOSALS TO:

Fort Bend County
Purchasing Department
Travis Annex
301 Jackson, Suite 201
Richmond, TX 77469

Note: All correspondence must include the term
"Purchasing Department" in address to assist in
proper delivery

SUBMIT NO LATER THAN:

Tuesday, March 22, 2022
2:00 PM (Central)

LABEL ENVELOPE:

RFP 22-053
Hazmat Vehicle

***ALL RFPs MUST BE RECEIVED IN AND TIME/DATE STAMPED BY THE PURCHASING OFFICE
OF FORT BEND COUNTY ON OR BEFORE THE SPECIFIED TIME/DATE STATED ABOVE.***

***RFPs RECEIVED AS REQUIRED WILL THEN BE OPENED AND NAMES PUBLICLY READ.
RFPs RECEIVED AFTER THE SPECIFIED TIME, WILL BE RETURNED UNOPENED.***

Results will not be given by phone.
Results will be provided to bidder in writing
after Commissioners Court award.

Requests for information must be in
writing and directed to:
Cheryl Krejci
Assistant County Purchasing Agent
Cheryl.Krejci@fortbendcountytexas.gov

Vendor Responsibilities:

- Download and complete any addendums. (Addendums will be posted on the Fort Bend County website no later than 48 hours prior to RFP opening)
- Submit response in accordance with requirements stated on the cover of this document.
- Do NOT submit responses via email or fax.

***1.0 SCOPE OF WORK:**

It is the intent of Fort Bend County to contract with one (1) vendor to provide a Hazmat Response Vehicle, which meets or exceeds the specifications contained herein.

- *1.1 The vehicle will be supplementing a current hazmat response vehicle. The new vehicle needs to be able to maintain all the equipment that is currently on the Hazmat response vehicle and have space for a workstation or and rehab area within the vehicle.
- 1.2 Primary function of the new vehicle under [NFPA 1901](#), *Standard for Automotive Fire Apparatus*, outlines the requirements for each type of apparatus. A chart outlining the required chapters based on the primary function is contained in the standard. Apparatus type is a Special Service Fire Apparatus. The primary apparatus designation must be given careful consideration as the requirements of the standard change accordingly.
- 1.3 Vehicle will not have a pump or water tank on the apparatus for firefighting or foaming.
- 1.4 An onboard generator, light tower, cord reels, oversize compartments, shelves are just some of the features that need to be included. The following document goes more in details of the vehicle specifics required.
- *1.5 The number of seating positions in the cab will be a minimum of two (2).
- 1.6 All equipment that will be mounted in the cab of the vehicle will be supplied and installed by the winning vendor. This includes any radios (portable or mobile), monitors, MDCs, printers, etc. Fort Bend County will not supply any of the equipment outside of the contract. Fort Bend County will program any radios once delivery of the vehicle is complete.
- 1.7 Respondent is responsible for complying with any and all and all applicable federal and state statutes, regulations, policies, guidelines and requirements.

2.0 PROPOSAL SUBMISSION:

2.1 Questions:

Questions concerning this RFP must be submitted in writing to Ms. Cheryl Krejci, Assistant County Purchasing Agent, 301 Jackson, Suite 201, Richmond, Texas 77469, Cheryl.Krejci@fortbendcountytexas.gov. Responses to questions will be issued in writing only, verbal questions and responses will not be considered. Deadline for submission of questions and/or clarification is **Wednesday, March 9, 2022 at 10:00 AM** (Central). Requests received after the deadline will not be responded to due to the time constraints of this Proposal process.

2.2 When submitting a proposal in response to this request the following are required:

2.2.1 **One (1) original, five (5) copies and one (1) electronic response on CD or flash drive. CD or flash drive must contain only one (1) file in PDF format and must match written response identically. Failure to provide proper CD or flash drive is cause for disqualification.**

2.2.2 Ensure that this RFP is included in your proposal and that all the information requested on the cover of this RFP is completed.

2.2.3 Provide a title page showing the RFP subject, name of Respondent, address, telephone number, fax number and email address. The title page must be signed by an officer of the firm.

2.2.4 Provide all required elements as stated.

2.3 Proprietary Information:

If a proposal includes any proprietary data or information that the respondent does not want disclosed to the public, such data or information must be clearly identified on every page on which it is found. Data or information so identified will be used by Fort Bend County officials and representatives solely for the purpose of evaluating proposals and conducting contract negotiations.

2.4 Cost of Proposal Preparation:

The cost of preparing a response to this RFP is not reimbursable to respondent or selected provider.

2.5 Modification or Withdrawal of Proposals:

Any proposal may be withdrawn or modified by written request of the respondent prior to the deadline for submission. Modifications received after the submission deadline will not be considered. No proposal may be withdrawn for a period of ninety (90) calendar days after opening without permission of Fort Bend County. Respondents will be accorded fair and equal treatment with respect to any opportunity for discussion and revision. Revisions will be permitted after submission and before final contract award for the purpose of obtaining the best and final offer.

2.6 Preparation of Proposal:

Proposals must be in correct format and complete. Respondents are expected to address all items in as much detail as necessary for Fort Bend County representatives to make a fair evaluation of the company and the proposal.

2.7 Confidentiality of Proposals:

Proposals will be opened on the date specified on the cover page and kept secret during the process of negotiations. Only the names of the respondents will be made public at time of opening. All proposals that have been submitted shall be open for public inspection only after final contract award, subject to the requirements of the Public Information Act.

2.8 Contract Award:

Fort Bend County Commissioners Court will award the contract to the responsible company(s) who has been determined to be the best evaluated offer resulting from negotiations. Fort Bend County reserves the right to reject any or all proposals and is not obligated to award a contract pursuant to this request for proposals. Final contract may be awarded to one (1) firm or multiple firms.

2.9 Exceptions RFP:

Any and all exceptions, conditions or qualifications to the provisions contained herein must be clearly identified as such together with reasons for taking exception, and inserted in the proposal along with associated costs.

3.0 PROPOSAL CONTACT:

This Proposal is being issued by the County Purchasing Agent on behalf of Fort Bend County, Texas. Thus, responses should be directed to the Purchasing Agent, as outlined below. Respondents are specifically directed NOT to contact any County personnel for meetings, conferences or technical discussions that are related to this Proposal other than specified herein. Unauthorized contact of any County personnel will likely be cause for rejection of the Respondent's proposal. All communications regarding the Proposal shall be directed to the County's Proposal Contact. Communication with the Proposal Contact is permitted via email, facsimile, or written correspondence.

PROPOSAL CONTACT:

Cheryl Krejci
Assistant County Purchasing Agent
Fort Bend County Travis Annex
301 Jackson, Suite 201
Richmond, Texas 77469
Cheryl.Krejci@fortbendcountytexas.gov

4.0 TEXAS ETHICS COMMISSION FORM 1295:

- 4.1 Effective January 1, 2016 all contracts executed by Commissioners Court, regardless of the dollar amount, will require completion of Form 1295 "Certificate of Interested Parties", per the new Government Code Statute §2252.908. All vendors submitting a response to a formal Bid, RFP, SOQ or any contracts, contract amendments, renewals or change orders are required to complete the

Form 1295 online through the State of Texas Ethics Commission website. Please visit:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm.

4.2 On-line instructions:

4.2.1 Name of governmental entity is to read: Fort Bend County.

4.2.2 Identification number is: RFP 22-053.

4.2.3 Description is: Hazmat Vehicle.

4.3 Highest evaluated vendor will be required to provide the Form 1295 within three (3) calendar days from notification; however, if your company is publicly traded you are not required to complete the form.

5.0 TENTATIVE SCHEDULE OF EVENTS:

Release of RFP:	February 27, 2022
Deadline for Questions:	March 9, 2022
Submission Due Date:	March 22, 2022
Evaluation of Submissions:	March 28, 2022
Commissioners Court Permission to Negotiate:	April 5, 2022
Negotiations:	April 6, 2022
Final Contract Approval Commissioners Court:	April 26, 2022

6.0 PRE-RFP CONFERENCE:

There is no Pre-RFP conference for this solicitation.

7.0 SPECIFICATIONS:

7.1 General Design and Construction: The cab, chassis, and body are to be entirely designed, assembled and painted by the prime vehicle manufacturer, which minimizes third party involvement on engineering, design, service and warranty issues. All respondents shall provide a list of the company, manufacturing location and engineering source for each individual major component, including but not limited to the welded cab assembly, the chassis assembly, body and electrical system. The apparatus shall be designed with due consideration to distribution of load between the front and rear axles. Weight balance and distribution shall be in accordance with the recommendations of the National Fire Protection Association. The respondent shall make accurate statements as to the apparatus weight and dimensions.

7.2 Delivery: Apparatus, to insure proper break in of all components while still under warranty, shall be delivered under its own power - rail or truck freight shall not be

acceptable. A qualified delivery representative shall deliver the apparatus and remain for a sufficient length of time to instruct personnel in proper operation, care and maintenance of the equipment delivered.

7.3 Manuals and Service Information: The manufacturer shall supply at time of delivery, Two (2) complete operation, service, and parts manuals covering the complete apparatus as delivered. A permanent plate shall be mounted in the driver's compartment which specifies the quantity and type of fluid required including engine oil, engine coolant, transmission, pump transmission lubrication, pump primer and drive axle.

7.4 Fire Apparatus Documentation: The contractor shall supply, at the time of delivery, at least one (1) copy of the following documents:

7.4.1 The manufacturers record of apparatus construction details, including the following:

- 7.4.1.1 Owner's name and address
- 7.4.1.2 Apparatus manufacturer, model, and serial number
- 7.4.1.3 Chassis make, model, and serial number
- 7.4.1.4 GAWR of front and rear axles and GVWR
- 7.4.1.5 Front tire size and total rated capacity in pounds (kilograms)
- 7.4.1.6 Rear tire size and total rated capacity in pounds (kilograms)
- 7.4.1.7 Chassis weight distribution in pounds (kilograms) with water and manufacturer-mounted equipment (front and rear)
- 7.4.1.8 Engine make, model, serial number, rated horsepower and related speed, and governed speed; and if so equipped, engine transmission PTO make, model, and gear ratio
- 7.4.1.9 Type of fuel and fuel tank capacity
- 7.4.1.10 Electrical system voltage and alternator output in amps
- 7.4.1.11 Battery make, model, and capacity in cold cranking amps (CCA)
- 7.4.1.12 Chassis transmission make, model, and serial number; and if so equipped, chassis transmission PTO make, model, and gear ratio
- 7.4.1.13 Ratios of all driving axle
- 7.4.1.14 Maximum governed road speed
- 7.4.1.15 Paint manufacturer and paint number(s)
- 7.4.1.16 Company name and signature of responsible company representative
- 7.4.1.17 Weight documents from a certified scale showing actual loading on the front axle, rear axle(s), and overall fire apparatus

7.4.2 Certification of compliance of the optical warning system

7.4.3 Siren manufacturer's certification of the siren

- 7.4.4 Written load analysis and results of the electrical system performance tests
- 7.4.5 Certification of slip resistance of all stepping, standing, and walking surfaces
- 7.5 Roll-Up Door Material and Workmanship Warranty: A roll-up door limited warranty shall be provided. The mechanical components of the roll-up door shall be warranted against defects in material and workmanship for a period of seven (7) years. The door ajar switch shall be warranted for a period of three (3) years and all other electrical components shall be warranted for a period of one (1) year. A seven (7) year limited warranty shall be provided on painted roll up doors. A copy of the warranty certificate shall be submitted with RFP submission.
- 7.6 Vehicle Stability Certification: The fire apparatus manufacturer shall provide a certification stating the apparatus complies with NFPA 1901, current edition, Vehicle Stability. The certification shall be provided with RFP submission.
- 7.7 Engine Installation Certification: The fire apparatus manufacturer shall provide a certification, along with a letter from the engine manufacturer stating they approve of the engine installation in the respondent's chassis. The certification shall be provided at time of delivery.
- 7.8 Power Steering Certification: The fire apparatus manufacturer shall provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification shall be provided at the time of RFP submission.
- 7.9 Cab Heater Certification: Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. The respondent shall certify, at time of delivery, that a substantially similar cab has been tested and has met the approved criteria by Fort bend County.
- 7.10 Cab Heater Certification: Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. The respondent shall certify, at time of delivery, that a substantially similar cab has been tested and has met the approved criteria by Fort bend County.
- 7.11 Cab Air Conditioning Performance Certification: Good cab air conditioning temperature and airflow performance keeps occupants comfortable, reduces humidity, and provides a climate for recuperation while at the scene. The respondent shall certify, at time of delivery, that a substantially similar cab has been tested and has met the approved criteria by Fort bend County.
- 7.12 Vehicle Body Design:
 - 7.12.1 Exterior Aluminum Body: Individual compartment modules, with dead air space voids between compartments, will not be an

acceptable method of compartment construction. The compartments shall be an integral part of the body construction. Compartment floors from front of body to ahead of rear axle, also from rear axle to rear of body shall be single one-piece sections. Compartment floors shall permitting easy cleaning of compartments. Angles, lips, or door moldings are not acceptable in the base of compartment door opening. A drain valves shall be provided in compartment floors so that a water hose may be used to flush-out compartment area. Only stainless steel bolts, nuts, and sheet metal screws shall be used in mounting exterior trim, hardware and equipment.

- 7.12.2 Drip Rails: The body shall have drip rails over the side full height compartments.
- 7.12.3 Rear Step Bumper: covered with 3/16" NFPA compliant aluminum tread plate. The bumper shall extend from the rear vertical body panel and provide a rear step.
- 7.12.4 Rear Tow Eyes: There shall be two heavy-duty rear mounted tow eyes securely attached to the body sub frame, below body.
- 7.12.5 Ground Lights: There shall be lights installed all under the body, and below rear and front bumper capable of providing illumination. Lighting shall be switchable but activated automatically when the vehicle park brake is set.
- 7.12.6 Fire Extinguisher Storage: There shall be three fire extinguisher storage compartments, preferably located above the wheel wells.
- 7.12.7 Body Undercoating: The entire underside of body shall be sprayed with black automotive undercoating. Undercoating areas underside of body and wheel well area to help prevent corrosion under the vehicle.
- 7.12.8 Reflective Stripe Requirements: Minimum Requirements under NFPA 1901 and will be approved in the design phase of the truck.
- 7.12.9 Graphics Proof: A color graphics proof of the reflective striping layout will be provided for approval by Fort Bend County. This vehicle shall be painted to match the current Fort Bend County HM1 vehicle.
- 7.12.10 Chevron Reflective Stripe-Rear Sides Panels: Minimum Requirements under NFPA 1901 and will be approved in the design phase of the truck.

~~*7.12.11 LED Command Light: A telescopic LED command light with a 360 swivel capability will be mounted on vehicle to provide additional lighting.~~

- 7.13 Performance Tests and Requirements: Following National Standards, a road test shall be conducted with the apparatus fully loaded and a continuous run of ten (10) miles or more shall be made under all driving conditions, during which time the apparatus shall show no loss of power or overheating. The transmission drive shaft or shafts and rear axle shall run quietly and be free from abnormal vibration or noise throughout the operating range of the apparatus. Vehicle shall adhere to the following parameters:
- 7.13.1 The apparatus, when fully equipped and loaded, shall have not less than 25 percent nor more than 50 percent of the weight on the front axle, and not less than 50 percent nor more than 75 percent on the rear axle.
 - 7.13.2 The apparatus shall be capable of accelerating to 35 mph from a standing start within 25 seconds on a level concrete highway without exceeding the maximum governed rpm of the engine.
 - 7.13.3 The service brakes shall be capable of stopping a fully loaded vehicle in 35 feet at 20 mph on a level concrete highway. The air brake system shall conform to Federal Motor Vehicle Safety Standards (FMVSS) 121.
 - 7.13.4 The apparatus, fully loaded, shall be capable of obtaining a speed of 50 mph on a level concrete highway with the engine not exceeding the governed rpm (full load). The top speed of the vehicle shall be governed at not more than 75 mph.
- 7.14 Construction Period: Contractor shall not be held liable for delays of chassis delivery due to accidents, strikes, floods or other events not subject to their control. Contractor shall provide immediate written notice to Fort Bend County as to delays and to what extent these delays have in completing vehicle within the stated construction time period.
- 7.15 Height Requirement: 13 feet is the overall height restriction for this vehicle.
- 7.16 Overall Length: 41 feet is the overall length restriction for this vehicle.
- 7.17 Minimum Length: There is not a set minimum, but maximizing the space up to 41ft for all equipment will be required.
- 7.18 Angle of Approach: The angle of approach for this vehicle shall not be less than eight (8) degrees when it is loaded to the estimated in-service weight as specified

by the current edition of NFPA 1901.

- 7.19 Angle of Departure: The angle of departure for this vehicle shall not be less than eight (8) degrees when it is loaded to the estimated in-service weight as specified by the current edition of NFPA 1901.
- 7.20 Apparatus Type: The apparatus shall be a Hazmat Rescue vehicle designed for emergency service use, which shall include the functions of a multipurpose vehicle, which primarily provides support services at emergency scenes.
- 7.21 Axle Configuration: The chassis shall feature a 4 x 2 axle configuration consisting of a single rear drive axle with a single front steer axle.
- 7.22 Service and Warranty Support (Manufacturer): The manufacturer must also maintain a 24 hour/7 day a week, toll free emergency hot line. The manufacturer shall employ a staff of adequate size specifically dedicated to providing customer support and parts for the fielded fleet of vehicles it has produced. The manufacturer must be capable of providing both in-house and on-site service for the apparatus.
- 7.23 Local Service Facility: Each respondent must provide with submission proof of dealer owned and operated Service Facility located within the Fort Bend County or Surrounding County, along with factory trained service personnel. Service personnel shall be factory trained to handle parts and warranty repair for their respective manufacturer. In addition, local Service Facility must have the capability to dispatch factory trained service technicians with dealer operated mobile service units to Department location for field service repairs within two hours. The service center must be within one hundred (100) miles of Fort Bend County.
- 7.24 NFPA Standards: This unit shall comply with the NFPA standards except for departments specifications that differ from NFPA specifications. These exceptions shall be set forth in the Statement of Exceptions:
 - 7.24.1 Certification of slip resistance of all stepping, standing and walking surfaces shall be supplied with delivery of the apparatus.
 - 7.24.2 A plate that is highly visible to the driver while seated shall be provided. This plate shall show the overall height, length, and gross vehicle weight rating.
 - 7.24.3 The manufacturer shall have programs in place for training, proficiency testing and performance for any staff involved with certifications.
 - 7.24.4 An official of the company shall designate, in writing, who is qualified to witness and certify test results.
 - 7.24.5 Apparatus proposed by the respondent shall meet the applicable

requirements of the National Fire Protection Association (NFPA) as stated in the current edition at time of contract execution. Fire Department's specifications that differ from NFPA specifications shall be indicated in the proposal as "non-NFPA."

- *7.25 Generator Preferred: The vehicle if equipped with will have a generator that will maintain the electrical system for all operations installed on the truck. Including outlets on the driver and passenger sides of the apparatus for additional use of electrical equipment. The generator start/stop control shall be located in the rehab (cab) area of the box.
- 7.26 Generator Test: The generator shall be tested, approved and certified by an ISO certified independent third party testing agency at the manufacturer's expense. The test results shall be provided to the Department at the time of delivery.
- 7.27 Approval Drawing: A drawing of the proposed apparatus shall be provided for approval before construction begins. The sales representative shall also have a copy of the same drawing. The finalized and approved drawing shall become part of the contract documents. This drawing shall indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc. A "revised" approval drawing of the apparatus shall be prepared and submitted by the manufacturer to the purchaser showing any changes made to the approval drawing.
- 7.28 Electrical Wiring Diagrams: Two (2) electrical wiring diagrams, prepared for the model of chassis and body, shall be provided.
- 7.29 Construction Progress Photos: Weekly photographs of the apparatus or the major components as they are being constructed shall be provided. The photos shall commence at the beginning of the manufacturing process and shall continue until just prior to the final inspection. There shall be approximately six (6) weekly reports illustrating the progress of the apparatus through the course of each week. Special attention shall be given to show the unique features and aspects of the apparatus as construction progresses.
- 7.30 Orientation Training: There shall be one (1) class held at the Department by a factory certified trainer. The class shall consist of basic orientation of the apparatus and shall last approximately 3 hours. The class shall cover basic operations of cab, chassis, and body components that are included on the new apparatus.
- 7.31 Chassis: Chassis provided shall be a new, custom fire apparatus on a commercial chassis. The chassis shall be designed and manufactured with adequate strength and capacity for the intended load to be sustained and the type of service required.
- 7.32 Tire Pressure Management: There shall be a tire alert pressure management system provided that shall monitor each tire's pressure. A chrome plated brass

sensor shall be provided on the valve stem of each tire for a total of six (6) tires. The sensor shall activate an LED when the pressure of that tire drops eight (8) psi.

- 7.33 Hub Covers (Front): Aluminum Alcoa wheels shall be provided on the front and rear axles.
- 7.34 Mud Flaps: Mud flaps shall be installed behind the front and rear wheels of the apparatus.
- 7.35 Wheel Chocks, Wheel Chock Brackets: NFPA 1901, requires two or more wheel chocks mounted in readily accessible locations, that together shall hold the apparatus, when loaded, on a hard surface with a 20 percent grade with the transmission in neutral and the parking brake released. The location to be installed shall be determined at the pre-construction conference. Actual wheel chocks shall be provided.
- 7.36 Anti-Lock Brake System: The vehicle shall be equipped with an anti-lock braking system.
- 7.37 Brake System: The brake system shall include:
 - 7.37.1 Two (2) air pressure gauges with a red warning light and an audible alarm, that activates when air pressure falls below 60 psi
 - 7.37.2 Spring set parking brake system
 - 7.37.3 Parking brake operated by a push-pull style control valve
 - 7.37.4 A parking "brake on" indicator light on instrument panel
- 7.38 Road Emergency Safety Equipment: One set of three dual faced triangular warning flares with fold away base complete with storage case per DOT requirements shall be provided with the completed apparatus. One 2.5 lb. ABC type vehicle fire extinguisher with bracket per DOT requirements shall be provided and mounted inside cab area.
- 7.39 Engine: The chassis shall be powered by an engine that meets the need for vehicle operations and requirements. The engine shall include On-board diagnostics (OBD), which provides self-diagnostic and reporting. The system shall give the owner or repair technician access to state of health information for various vehicle sub systems. The system shall monitor vehicle systems, engine and after treatment. The system shall illuminate a malfunction indicator light on the dash console if a problem is detected. The overall engine should be able to maintain full operations for the equipment on the vehicle and allow for the full power and maintain operations for extended period. All NFPA 1901 requirements will be followed and incorporated into the determination of engine size and output. The following

will be included in the specs of the engine:

- 7.39.1 The vehicle shall be equipped with an automatic high-idle speed control. It shall be pre-set so when activated, it will operate the engine at the appropriate RPM to increase alternator output.
- 7.39.2 The engine shall include programming which will govern the top speed of the vehicle to not more than 75 mph.
- 7.39.3 The engine oil shall be monitored electronically and shall send a signal to activate a warning in the instrument panel when levels fall below normal.
- 7.40 Cab Style: The cab shall be a minimum of a two person, two door cab. Up to a four door, six person (including driver) cab is acceptable.
- 7.41 Cab Specifications:
 - 7.41.1 The cab shall have power adjustable mirrors, windows, and door locks.
 - 7.41.2 The cab shall have tinted windows.
 - 7.41.3 The cab shall have air conditioning and heating
 - 7.41.4 The cab shall include one 12 volt cigarette lighter type receptacles in the cab dash to provide a power source for 12 volt electrical equipment.
 - 7.41.5 The cab shall have a back-up camera with screen available for viewing and microphone suitable for picking sounds at the rear of the vehicle.
 - 7.43.6 The cab shall have a center console suited for mounting mobile radio (APX 6500), emergency lights, siren, mobile data computer, etc.
 - 7.41.7 The cab shall have an open door alarm associated with a do not move apparatus alarm.
 - 7.41.8 Each door shall include an NFPA compliant LED ground light mounted to the underside of the cab step below each door. The ground lighting shall be activated by the opening of the door on the respective cab side, when the parking brake is set and through a virtual button on the display and control screen.
- 7.42 Seat Material: The seats shall include a covering of high strength, wear resistant fabric made of durable ballistic polyester. A coating shall be bonded to the backside of the material to help protect the seats from UV rays and from being saturated or contaminated by fluids.
 - 7.42.1 All seats supplied with the chassis shall be black or dark grey in color.

- 7.42.2 Seat driver: Seat shall feature eight-way electric positioning. The eight positions shall include up and down, fore and aft with of travel, back angle adjustment and seat rake adjustment. The seat shall feature integral springs to isolate shock or air ride if available.
- 7.42.3 SEAT OFFICER: The seat shall feature two- way manual adjustment and shall include a tapered and padded seat cushion. The seat shall also feature integral springs to isolate shock.
- 7.43 Instrumentation: The instrumentation gauges and the switch panel legends shall be backlit using red LED backlighting. The instrument panel shall contain the following gauges (Following NFPA 1901):
 - 7.43.1 All required wringing lights and audible alarms for the functions of the vehicle shall be located within the gauges and instrumental panel.
- 7.44 High Idle: A high idle switch shall be provided, inside the cab, on the instrument panel, that shall automatically maintain a preset engine rpm.
- *7.45 Fuel Tank: A minimum of a 50-gallon fuel tank shall be provided.
- 7.46 Diesel Exhaust Fluid Tank: A diesel exhaust fluid (DEF) tank shall be provided. A fill inlet shall be provided and marked "Diesel Exhaust Fluid Only".
- 7.47 Transmission: The automatic transmission shall be equipped with prognostics to monitor oil life, filter life, and transmission health. A transmission temperature gauge with red light and audible alarm shall be installed on the cab dash.
- 7.48 Transmission Shifter: A push button shift module shall be mounted to right of driver on console. Shift position indicator shall be indirectly lit for after dark operation.
- 7.49 Steering: A tilt and telescopic steering column shall be provided to improve fit for a broader range of driver configurations.
- 7.50 Bumper: A chrome stainless steel bumper shall be attached to the vehicle.
- 7.51 Air Horn System: Two air horns will be provided and mounted on either side of the hood above the front wheels. The horn system will be piped to the air brake system wet tank. A pressure protection valve will be installed in-line to prevent loss of air in the air brake system.
- 7.52 Air Horn Control: Two lanyard rope pull controls will be provided, (1) within reach of the driver and one (1) within reach of the officer.
- 7.53 Tow Hooks: Two (2) steel tow hooks shall be installed under the bumper and attached to the front frame members. The tow hooks shall be designed and

positioned to allow up to a 6,000 pound straight horizontal pull in line with the centerline of the vehicle. The tow hooks shall not be used for lifting of the apparatus.

~~*7.54 Radio: A radio with AM/FM stereo receiver, and two (2) speakers shall be installed in the cab.~~

7.55 Exhaust: The cab shall have either a single or double vertical chrome exhaust stack that exits at the rear corners of the cab.

7.56 The cab shall have an exterior mounted forward facing LED scene light.

7.57 Window Tint: Windows shall be tinted with 8 percent light transmission tint (shall block 92 percent of visible light). The following windows are included:

7.57.1 Driver's Window

7.57.2 Passenger front window

7.57.3 Rear cab window, and rear walk-in door window

7.58 Interior Paint (Cab): The cab interior metal surfaces shall be painted dark gray.

7.59 Air Conditioning: A high performance, customized air conditioning system shall be furnished inside the cab and crew cab. The air conditioning system shall be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 70 degrees Fahrenheit within 30 minutes at 50 percent relative humidity. Adjustable air outlets shall be strategically located on the evaporator cover. The air conditioner shall be controlled by a single electronic control panel. For ease of operation, the control panel shall include variable adjustment for temperature and fan control and be conveniently located on the dash in clear view of the driver. Special considerations should be made to ensure any A/C drain lines are run in such a way as to not cause any water leaks inside of the cab.

7.60 Grab Handle: A covered grab handle shall be mounted on the door post of the driver and officer's side cab door to assist in entering the cab. The grab handle shall be securely mounted to the post area between the door and windshield. A long rubber grab handle shall be mounted on the dash board in front of the officer.

*7.61 Seating Capacity: The seating capacity in the cab shall be a minimum of two (2).

7.62 Audible Seat Belt Alarm: The Seat Belt Monitoring System shall include an audible alarm that shall be activated when a red illumination condition exists and the parking brake is released, or a red illumination condition exists and the transmission is not in park.

7.63 Cab Dome Lights: There shall be LED dome lights inside of the cab.

7.64 Cab Instrumentation: The cab instrument panel shall include gauges, telltale

indicator lamps, control switches, alarms and a diagnostic panel. The function of the instrument panel controls and switches shall be identified by a label adjacent to each item. Actuation of the headlight switch shall illuminate the labels in low light conditions. Telltale indicator lamps shall not be illuminated unless necessary. The cab instruments and controls shall be conveniently located within the forward cab section, forward of the driver. The gauge assembly and switch panels are designed to be removable for ease of service and low cost of ownership.

- 7.65 Alarms: Audible steady tone warning alarm: A steady audible tone alarm shall be provided whenever a warning condition is active.
- 7.66 Emergency Master Switch: Emergency switching shall be controlled by multiple individual warning light switches for various groups or areas of emergency warning lights. An Emergency Master switch provided on the instrument panel that enables or disables all individual warning light switches is included. An additional "Emergency Master" button shall be provided on the lower left hand corner of the gauge panel to allow convenient control of the "Emergency Master" system from inside the driver's door when standing on the ground.
- 7.67 "DO NOT MOVE APPARATUS" Indicator: A flashing red indicator light, located in the driving compartment, shall be illuminated automatically per the current NFPA requirements. The light shall be labeled "Do Not Move Apparatus If Light Is On." The same circuit that activates the Do Not Move Apparatus indicator shall activate a pulsing alarm when the parking brake is released.
- 7.68 Wiper Control: Wiper control shall consist of a two (2)-speed windshield wiper control with intermittent feature and windshield washer control
- 7.69 Rear Cab Air Conditioner-Heater: One single-phase air conditioner shall be provided and installed on the cab roof. The unit shall be a roof top contemporary contoured integral evaporator/condenser type with built-in heating elements. For the rear of the Cab. The unit should provide no less than 15,000 btu cooling capacity.
- 7.70 Voltage Monitor Systems: A voltage monitor system shall be provided to indicate the status of each battery system connected to the vehicle's electrical load. The monitor system shall provide visual and audio warning when the system voltage is above or below optimum levels.
- 7.71 Battery System: A single starting system shall be provided. An ignition switch and starter button shall be located on the instrument panel.
- 7.72 Master Battery Switch: A master battery switch, to activate the battery system, shall be provided inside the cab within easy reach of the driver. An

indicator light shall be provided on the instrument panel to notify the driver of the status of the battery system.

- 7.73 **Battery Charger** A single output battery charger/air compressor system shall be provided. A display bar graph indicating the state of charge shall be included. The automatic charger shall maintain one (1) set of batteries with a maximum output current of 40 amps. The 12-volt air compressor shall be installed to maintain the air system pressure when the vehicle is not in use. The battery charger shall be wired directly to the AC shoreline inlet. The battery charger indicator shall be located on or near the driver's seat riser.
- 7.74 **Shoreline Inlets:** There shall be at least one (possibly two depending electrical requirements) 30 amp shoreline receptacle(s) provided to operate the dedicated 120 volt circuits on the truck without the use of a generator. The shoreline receptacle(s) shall be provided with a straight blade auto eject plug with a weatherproof cover. The cover is spring loaded to close, preventing water from entering when the shoreline when it is not connected. The unit is completely sealed to prevent road dirt contamination. A solenoid wired to the vehicle's starter is energized when the engine is started. This instantaneously drives the plug from the receptacle. An internal switch arrangement shall be provided to disconnect the load prior to ejection to eliminate arcing of the connector contacts. A mating connector body shall be supplied with the loose equipment. The shoreline receptacle shall be located on the driver side of cab, near the Drivers door.
- 7.75 **Rear FMVSS Lighting:** There shall be the following stop/tail and directional lighting provided at the rear of the truck:
 - 7.75.1 Two (2) red LED stop/tail lights with color lenses.
 - 7.75.2 Two (2) amber LED directional lights.
 - 7.75.3 Four (4) red reflectors shall be provided.
 - 7.75.4 Two (2) LED backup lights shall be provided.
- 7.76 **License Plate Bracket:** There shall be one license plate bracket located below the tailboard on a removable bolt-on bracket located on the Driver's side. An incandescent step light shall illuminate the license plate.
- 7.77 **Back-up Alarm:** A solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse shall be provided. The device shall sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) DBA above surrounding environmental noise levels.
- 7.78 **Back-up Camera:** back up camera will be required for the driver to effectively view all angles while backing up the vehicle.

- 7.79 Roll up Door Strip Lights: There shall be white LED strip lights provided in each compartment, these lights shall be activated automatically when the battery switch is on and the doors are opened or by the same means as the body perimeter scene lights.
- 7.80 Perimeter Scene Lights, Body: There shall be no less than seven (7) high intensity LED flood lights mounted at the upper sides of the vehicle. Two on the driver's side, two on the passenger side, two on the rear, and at least one forward brow mounted light. These scene lights shall be activated from the cab and in one outer compartment to be determined during the design phase.
- 7.81 Step Lights: LED step lights shall be provided. One (1) step light shall be provided on each side, on the front compartment face and two (2) step lights at the rear to illuminate the tailboard.
- 7.82 12 Volt Lighting: There shall be one (1), 12 volt LED combination spotlight and floodlight(s) provided on the front visor, centered. The light(s) shall flash in a warning mode when the emergency master switch is activated; the parking brake is released and with separate switches powered from emergency master power, one (1) included on the driver side switch panel & one (1) included on the offer side switch panel. The lights shall be in a steady burning scene light mode with the following: A switch at the driver's side switch panel. A switch at the passenger's side switch panel. The scene light mode shall be the priority control. These light(s) may be load managed when the parking brake is set.
- 7.83 Aggressive Walking Surface: All exterior surfaces designated as stepping, standing, and walking areas shall comply with the required average slip resistance of the current NFPA standards.
- 7.84 Louvers: Louvers shall be stamped into compartment walls to provide the proper airflow inside the body compartments and to prevent water from dripping into the compartment. Where these louvers are provided, they shall be formed into the metal and not added to the compartment as a separate plate.
- 7.85 Compartmentation: Body and compartments shall be fabricated of aluminum. Side compartments shall be an integral assembly with the rear fenders. Circular fender liners shall be provided for prevention of rust pockets and ease of maintenance. Compartment flooring shall be of the sweep out design with the floor higher than the compartment door lip. The compartment door opening shall be framed by flanging the edges in and bending out again to form an angle. Drip protection shall be provided above the doors by means of bright aluminum extrusion, formed bright aluminum tread plate or polished stainless steel. The top of the compartment shall be covered with bright aluminum tread plate rolled over the edges on the front, rear and outward side. These covers shall have the corners welded. Side compartment covers shall be separate from the compartment tops. Front facing compartment walls shall be

covered with bright aluminum tread plate. All screws and bolts which protrude into a compartment shall have acorn nuts on the ends to prevent injury.

- 7.86 Compartments: All compartments are estimations and basic guides to establish the most efficient way to supply the required gear for the hazmat response. The specs below are based off the equipment and the number of shelves that are currently used. All compartments are subject to modifications during the pre-development meeting and approved by Fort Bend County. The list is based off two compartments before the rear wheel, one above the rear wheel, and one behind the rear wheel. There will also be steps leading up to the top of the vehicle which will allow for storage, with large compartments on the top of the vehicle. If a full pass through slide out is available, it is preferred and the list below is a basic recommendation for the required equipment needed. Compartment doors shall be of the roll up design and painted to match the exterior body color as appropriate.

7.87 Roof Storage Compartments:

7.87.1 Upper Body Compartments: There shall be a coffin boxes installed on the roof in such a manner to maximize storage minimum of four compartments parallel to the sides of the body, two on each side. Each of these compartments is to allow for long equipment. Each compartment will not be bolted or add-on modules. The outside walls of each compartment will be double walled to prevent equipment from denting the outside painted surface. Each compartment shall have a lift-up type compartment door. Each door shall have two pneumatic type cylinders, one at each end, attached to cast aluminum brackets mounted to the interior surface of the door to hold the door in both the opened and closed positions. A gasket shall be used to prevent corrosion or moisture to get into compartment. Each roof compartment door shall have a handle bolted to center of each door. Each compartment shall have a drain hole located in floor of compartment. Each compartment will have a LED light on the underside of the door. The light and NFPA door ajar system shall be automatically activated by an individual switch per compartment.

7.87.2 Roof Compartment-Vertical Partition: There shall be one adjustable vertical partition provided in the roof compartments. The partitions shall be used to retain or hold equipment in place during travel. Each partition shall be fabricated from smooth aluminum and able to adjustment.

7.87.2.1 Upper Body Walkway: A designed and wide, upper body walkway shall be provided at the center of body and recessed into the roof structure. The walkway shall be fabricated from NFPA compliant 3/16" aluminum tread plate Drains shall be installed.

- 7.87.2.2 Walkway/Step Lights: There shall be four lights provided to illuminate the walkway or step area. The lights shall be activated when the parking brake is set. Lighting shall provide illumination on all work surfaces, steps, and walkways. Lighting shall be switchable but activated automatically when the vehicle park brake is set.
- 7.87.2.3 Roof Access Stairway: The rear of the body shall be provided with a adequate width roof access stairway.
- 7.87.2.4 Stairway Handrails: There shall be handrails provided for safer access to roof compartments.
- 7.87.2.5 Step Compartment-Lower: There shall be compartment located in the roof access stairway area. Each compartment shall have a D-ring handle. Each compartment shall be manufactured to prevent road debris, dirt and moisture from entering the enclosure.
- 7.87.2.6 Lighting: Each compartment shall have a light that shall automatically activate when the door is opened and wired to the NFPA required hazard warning light provided in the cab.
- 7.87.2.7 Step Compartment-Upper: There shall be one upper compartment located directly below walkway area. The compartment with a D-ring handle. Each Compartment shall have a light that shall be automatically activated when the door is opened and wired to the NFPA required hazard warning light provided in the cab.
- 7.88 Plastic Floor and Shelf Tile: All compartment floors, shelves, and trays shall be covered with plastic interlocking turtle tile grating.
- 7.89 Additional Compartment Notes: If the space were available for full pass through shelving and trays, then this would be preferred for using all additional space. The following items will need to be configured into the space on the vehicle:
 - 7.89.1 A minimum of 6 SCBA bottles (spares) located on the truck in one of the compartments
 - 7.89.2 This does not include the space above fender where SCBA/Extinguishers are located

- 7.90 **Compartment Rollup Doors:** The compartment doors installed on the side compartments, double faced, aluminum construction, and satin aluminum. The slats shall be double wall box frame extrusion. The exterior surface shall be flat and the interior surface shall be concave to help loose equipment fall to the ground and prevent it from jamming the door. A stainless steel lift bar to be provided for opening the door and located at the bottom of each door with latches on the outer extrusion of the door frame. A ledge shall be supplied over the lift bar as additional area to aid in closing the door.
- 7.91 **Compartment Lighting:** There shall be white LED compartment lighting to adequately light up the specific compartment. There shall be a minimum of two (2) strip lights installed vertically in each compartment opening per the latest NFPA requirements. The lights shall be activated when the battery switch is on and the respective compartment door is opened.
- 7.92 **Mounting Tracks:** There shall be a minimum of six (6) sets of tracks for mounting shelf(s) in all compartments. These tracks shall be installed vertically to support the adjustable shelf(s), and shall be full height of the compartment. The tracks shall be painted to match the compartment interior.
- 7.93 **Adjustable Shelves:** All shelves should come with a capacity of 500 pounds provided. Each shelf shall be painted to match the compartment interior. Each shelf shall be infinitely adjustable by means of a threaded fastener, which slides in a track. The location shall be To Be determined.
- 7.94 **Aluminum Pegboard:** Horizontally installed tracks, aluminum pegboard shall be installed. The pegboard shall be spatter gray painted. The locations are the driver side compartment behind the rear wheels. Retainers shall be used to mount the pegboard to the tracks.
- 7.95 **Rub Rail:** Bottom edge of the side and rear of the body compartments shall be trimmed with a bright aluminum extruded rub rail. The rub rails shall not be an integral part of the body construction, which allows replacement in the event of damage.
- 7.96 **Air Bottle Compartment Strap:** A strap will be provided in the air bottle compartment(s) to help contain the air bottles when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.
- 7.97 **Electronic Siren:** An electronic siren with noise canceling microphone shall be provided. This siren to be active when the battery switch is on

and that emergency master switch is on. Electronic siren head shall be located in the center console.

7.98 Speakers: There shall be one (2) speakers provided. Each speaker shall be a 100-watt, with through bumper mounting brackets. Each speaker shall be connected to the siren amplifier. The speaker(s) shall be recessed in the front bumper.

7.99 Lighting on Truck: All lighting configuration will be approved in the pre-construction meeting prior to Fort Bend County approval.

7.100 Lightbar, Cab Roof: There shall be a light bar mounted on the cab roof. The light bar shall include the following:

7.100.1 A mixture of red and blue LEDs.

7.100.1.1 Two (2) white flashing LED modules facing forward.

7.100.2 All lenses shall be clear.

7.101 Front Zone Lower Lights: There shall be one (2) pair of flashing LED lights installed on the cab face above near the headlights. The color of these lights shall be of a high intensity red and blue LED lenses. Lenses shall be clear

7.102 Side Zone Lower Warning Lighting: Six (4) flashing super LED lights shall be located at the following positions:

7.102.1 Two (2) lights, one (1) each side just behind the rear wheels – red/blue with clear lens.

7.102.2 Two (2) lights, behind the cab doors – red/blue Super LED with clear lens each side.

7.103 Side Zone Upper Warning Lights: There shall be four (4) LED light(s) provided and located One (1) as far forward in the front and One (1) as far rearward (on each side of truck). The color of each light shall be red/blue LED with a clear lens. Each light shall be provided with a chrome plated ABS flange. The light(s) shall be activated with the side warning switch.

7.104 Rear Zone Lower Lighting: There shall be two (2) LED, red/blue Super LED/clear lens lights located at the rear of the apparatus. Each light shall be mounted in a cast aluminum housing.

7.105 Rear Zone Upper Warning Lights: There shall be two (2) LED warning beacons provided at the rear of the truck, located one (1) each side. The color of the lights shall be red/blue LEDs with clear lenses. The warning lights shall be mounted on stainless steel brackets with all wiring totally enclosed.

~~*7.106 Light Tower: The vehicle will have a telescopic light tower that will be powered by the generator.~~

7.107 Installation of Radio and Antenna: The apparatus manufacturer shall provide and install two (2) Fire Department radios and (1) antenna from the loose equipment. Exact location of the radios and antennae will be determined at the Pre- Construction Conference.

7.108 Loose Equipment: The following equipment shall be furnished with the completed unit:

7.108.1 One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit

7.108.2 Four (5) Stream light Vulcan 180 LED model rechargeable hand lights shall be provided.

7.108.3 Four (4) charging units for hand lights shall be mounted on the apparatus.

7.109 Paint: The cab and body shall be painted to match Fort Bend County HM1. The manufacturer shall provide sample paint chips at the pre-construction conference.

7.110 Compartment Interior Paint: The interior of compartmentation shall be painted with a gray type paint.

7.111 Stainless steel fender crown shall be provided and installed.

7.112 A rear mounted hitch shall be provided and installed.

~~*7.113 Rehab Walk in Area: The vehicle shall have a passenger side walk-in rehab area with fold down steps towards the front of the box. The walk-in rehab area shall only be accessible from the passenger side with no slide outs. There shall be bench seating with cushions suitable for four adults to sit down. There shall be two door storage cabinet with multiple shelves for the storage and charging of gas detectors, cordless power tool batteries, and other electronics. Strip charges shall be installed on each shelf. There shall also be a two person workstation with overhead cabinet and a secondary APX 6500 remote~~

~~head with speaker and microphone installed on the workstation. Additional outlets shall be installed to power additional equipment. A black and white laser jet printer shall be provided, installed and secured in this area. Two roof top mounted 15K BTU air conditioners with heat strips and digital thermostats shall be installed. Dark grey flooring shall be installed in this area. The interior of this area should have sufficient ceiling lighting using LED lights and light switches installed in appropriate places. A flat panel LED TV with one of the HDMI inputs of the TV being wired to a flat mounted permanent HDMI wall plate next to or below the TV to allow for easy connection from another source such as a laptop, etc.~~

~~*7.114 A hopper system to store and dispense oil dry shall be installed. The hopper system shall be able to store no less than five (5) 50 pound bags of oil dry.~~

7.115 A built in tool box shall be installed in one of the compartments to store various hand tools and other supplies. A vacuum style cooler shall be supplied with this project and a designated storage location shall be provided in one of the compartments

7.116 A mounting system for shovels and push broom shall be installed and attaching mechanisms for the tools shall be provided.

7.117 storage and mounting solution for 5 Scott X3 SCBA airpicks with bottles shall be installed.

7.118 All tray shall be vertically adjustable and slide out. No tilt trays.

~~*7.119 A 200ft electric cord reel shall be provided and installed.~~

7.120 A storage solution for two 10 ft. pike poles shall be installed

7.121 A storage solution for one 20 lbs propane cylinder (bbq grill style) shall be installed.

~~*7.122 A 3 sided tree limb guard shall be installed and painted to match to protect the AC units and command light.~~

7.123 A rear ladder shall be provided to access the roof area of the vehicle.

~~*7.124 A built in air compressor system shall be installed capable of providing a constant flow of air suitable to power a wide range of air tools, such as air hammers, air drills, and a 1/2 inch dual diaphragm pump.~~

8.0 TAX EXEMPT:

Fort Bend County is exempt from state and local sales and use taxes under Section 151.309 of the Texas Tax Code. This project will be deemed a separate project for Texas tax purposes, and as such, Fort Bend County hereby issues its Texas Exemption for the purchase of any items qualifying for exemption under this project. Respondent is to issue its Texas Resale Certificate to vendors and subcontractors for such items qualifying for this exemption, and further, Respondent should state these items at cost.

9.0 INCURRED COSTS:

Those submitting proposals do so entirely at their expense. There is no expressed or implied obligation by the County to reimburse any individual or firm for any costs incurred in preparing or submitting proposals, for providing additional information when requested by the County or for participating in any selection interviews, including discovery (pre-contract negotiations) and contract negotiations.

10.0 ACCEPTANCE:

- 10.1 Submission of any proposal indicates a Respondent's acceptance of the conditions contained in this Proposal unless clearly and specifically noted otherwise in their proposal.
- 10.2 Furthermore, the County is not bound to accept a proposal on the basis of lowest price, and further, the County has the sole discretion and reserves the right to cancel this Proposal, to reject any and all proposals, to waive any and all informalities and or irregularities, or to re-advertise with either the identical or revised specifications, if it is deemed to be in the County's best interests. The County reserves the right to accept or reject any or all of the items in the proposal, and to award the contract in whole or in part and/or negotiate any or all items with individual Respondents if it is deemed in the County's best interest.
- 10.3 Although Fort Bend County desires to negotiate toward a contract with a selected Respondent, the Commissioners' Court may award the contract on the basis of the initial proposals received, without discussions. Therefore, each initial proposal should contain the Respondent's best terms.

11.0 INTERPRETATIONS, DISCREPANCIES, AND OMISSIONS:

- *11.1 It is incumbent upon each potential Respondent to carefully examine these specifications, terms, and conditions. Should any potential Respondent find discrepancies, omissions or ambiguities in this Proposal, the Respondent shall at once request in writing an interpretation from the County's Proposal Contact. Any inquiries, suggestions, or requests concerning interpretation, clarification or additional information shall be made in writing via e-mail only to the County's Proposal Contact, as specified in Section 3.0.

Deadline for submission of questions and/or clarification is no later than **Tuesday, March 9 15, 2022 at 10:00 AM. (CST)**. Requests received after the deadline will not be responded to due to the time constraints of this Proposal process.

- 11.2 The issuance of a written addendum is the only official method by which interpretation, clarification or additional information will be given by the County. Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarification will be without legal effect. If it becomes necessary to revise or amend any part of this Proposal, notice will be given by the County Purchasing Agent to all prospective Respondents who were sent a Proposal. The Respondent in their proposal shall acknowledge receipts of amendments. Each Respondent shall ensure that they have received all addenda and amendments to this Proposal before submitting their proposals.

12.0 RETENTION OF RESPONDENT’S MATERIAL:

The County reserves the right to retain all proposals regardless of which response is selected. All proposals and accompanying documents become the property of the County.

13.0 CERTIFICATE OF INDEPENDENT PRICE DETERMINATION:

By submission of a proposal, each Respondent certifies, that in connection with this procurement:

- 13.1 The prices in this proposal have been arrived at independently, without consultation, communication, or agreement with any other Respondent; with any competitor; or with any County employee(s) or consultant(s) for the purpose of restricting competition on any matter relating to this Proposal.
- 13.2 Unless otherwise required by law, the prices which have been quoted in this proposal have not been knowingly disclosed by the Respondent and will not knowingly be disclosed by the Respondent prior to award directly or indirectly to any other Respondent or to any competitor; and;
- 13.3 No attempt has been made or will be made by the Respondent to induce any other person or firm to submit or not to submit a proposal for the purpose of restricting competition.

14.0 ASSIGNMENT:

The Respondent may not sell, assign, transfer or convey the contract resulting from this Proposal, in whole or in part, without the prior written approval from Fort Bend County Commissioners’ Court.

15.0 CONFIDENTIAL MATTERS:

- 15.1 All data and information gathered by the Respondent and its agents, including this Proposal and all reports, recommendations, specifications, and data shall be treated

by the Respondent and it's agents as confidential. The Respondent and it's agents shall not disclose or communicate the aforesaid matters to a third party or use them in advertising, publicity, propaganda, and/or in another job or jobs, unless written consent is obtained from the County.

- 15.2 Proposals will only be publicly received and acknowledged only so as to avoid disclosure of the contents to competing Respondents and kept secret during negotiation. However, all proposals shall be open for public inspection after the contract is awarded. Trade secrets and any material that is considered to be confidential information contained in the proposal and identified by Respondent as such will be treated as confidential to the extent allowable in the Open Records Act.

16.0 CONFLICT OF INTEREST:

- 16.1 Pursuant to Chapter 171 of the Texas Local Government Code, no County public official shall vote on or participate in this Agreement if said official has a direct or indirect substantial financial interest in a business entity or real property relating to this Agreement.
- 16.2 Each party shall file a conflict of interest statement or questionnaire, if required, in accordance with Chapter 176 of the Texas Local Government Code, if (1) Contractor has an employment, business and/or familial relationship with the local government officer (or family member of the officer) that results in the local government officer receiving taxable income exceeding \$2,500, or (2) Contractor has given the local government officer (or to the family member of the officer) one or more gifts with the aggregate value of more than \$100 in the preceding 12 month period.

17.0 LIMITS OF SUBCONTRACTORS:

- 17.1 The County has approval rights over the use and/or removal of all subcontractors and/or vendor(s). Subcontractors shall conform to all County policies.
- 17.2 Any dispute between the Respondent and subcontractors, including any payment dispute, will be promptly remedied by the Respondent. Failure to promptly remedy or to make prompt payment to subcontractor may result in the withholding of funds from the Respondent by the County for any payments owed to the subcontractor.

18.0 JURISDICTION, VENUE, CHOICE OF LAW:

This Proposal and any contract resulting there from shall be governed by and construed according to the laws of the State of Texas. Should any portion of any contract be in conflict with the laws of the State of Texas, the State laws shall invalidate only that portion. The remaining portion of the contract(s) shall remain in effect. Any lawsuit shall be governed by Texas law and Fort Bend County, Texas shall be the venue for any action or proceeding that may be brought or arise out of, in connection with or by reason of this Proposal process and resulting Agreements.

19.0 INDEPENDENT CONTRACTOR:

The Respondent is an independent contractor and no employee or agent of the Respondent shall be deemed for any reason to be an employee or agent of the County.

20.0 TERMINATION OF CONTRACT:

20.1 Termination for Convenience. County may terminate the Underlying Agreement, in whole or in part, at any time by written notice to the Contractor. If the Contractor has any property in its possession belonging to County, the Contractor will account for the same, and dispose of it in the manner County directs.

20.2 Termination for Cause.

20.2.1 County may terminate the whole or any part of this Agreement for cause in the following circumstances:

20.2.1.1 If Contractor fails to perform services within the time specified in the Scope of Services or any extension thereof granted by the County in writing;

20.2.1.2 If Contractor materially breaches any of the covenants or terms and conditions set forth in the Underlying Agreement or fails to perform any of the other provisions of the Underlying Agreement or so fails to make progress as to endanger performance of the Underlying Agreement in accordance with its terms, and in any of these circumstances does not cure such breach or failure to County's reasonable satisfaction within a period of ten (10) calendar days after receipt of notice from County specifying such breach or failure.

20.2.2 If, after termination, it is determined for any reason whatsoever that Contractor was not in default, or that the default was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the County as if the contract had been terminated for convenience.

20.2.3 Upon termination of the Underlying Agreement, County shall compensate Contractor in accordance with the terms for payment set out in the agreement, above, for those services which were provided under the Underlying Agreement prior to its termination and which have not been previously invoiced to County. Contractor's final invoice for said services will be presented to and paid by County in the same manner set forth in the Underlying Agreement.

21.0 EQUAL EMPLOYMENT OPPORTUNITY:

- 21.1 Standard. Except as otherwise provided under 41 C.F.R. Part 60, all contracts that meet the definition of “federally assisted construction contract” in 41 C.F.R. § 60-1.3 must include the equal opportunity clause provided under 41 C.F.R. § 60-1.4(b), in accordance with Executive Order 11246, Equal Employment Opportunity (30 Fed. Reg. 12319, 12935, 3 C.F.R. Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, Amending Executive Order 11246 Relating to Equal Employment Opportunity, and implementing regulations at 41 C.F.R. Part 60 (Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor). See 2 C.F.R. Part 200, Appendix II, ¶ C.
- 21.2 Key Definitions.
 - 21.2.1 Federally Assisted Construction Contract. The regulation at 41 C.F.R. § 60-1.3 defines a “federally assisted construction contract” as any agreement or modification thereof between any applicant and a person for construction work which is paid for in whole or in part with funds obtained from the Government or borrowed on the credit of the Government pursuant to any Federal program involving a grant, contract, loan, insurance, or guarantee, or undertaken pursuant to any Federal program involving such grant, contract, loan, insurance, or guarantee, or any application or modification thereof approved by the Government for a grant, contract, loan, insurance, or guarantee under which the applicant itself participates in the construction work.
 - 21.2.2 Construction Work. The regulation at 41 C.F.R. § 60-1.3 defines “construction work” as the construction, rehabilitation, alteration, conversion, extension, demolition or repair of buildings, highways, or other changes or improvements to real property, including facilities providing utility services. The term also includes the supervision, inspection, and other onsite functions incidental to the actual construction.
- 21.3 Applicability. This requirement applies to all FEMA grant and cooperative agreement programs.
- 21.4 The regulation at 41 C.F.R. Part 60-1.4(b) requires the insertion of the following contract clause: “During the performance of this contract, the contractor agrees as follows:
 - 21.4.1 The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. 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. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

- 21.4.2 The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- 21.4.3 The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 21.4.4 The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- 21.4.5 The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- 21.4.6 In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions as may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- 21.4.7 The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase

order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.”

22.0 RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENTS:

- 22.1 Stafford Act Disaster Grants. This requirement does not apply to the Public Assistance, Hazard Mitigation Grant Program, Fire Management Assistance Grant Program, Crisis Counseling Assistance and Training Grant Program, Disaster Case Management Grant Program, and Federal Assistance to Individuals and Households – Other Needs Assistance Grant Program, as FEMA awards under these programs do not meet the definition of “funding agreement.”
- 22.2 If the FEMA award meets the definition of “funding agreement” under 37 C.F.R. § 401.2(a) and the non-Federal entity wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the non-Federal entity must comply with the requirements of 37 C.F.R. Part 401 (Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements), and any implementing regulations issued by FEMA. See 2 C.F.R. Part 200, Appendix II, ¶ F.
- 22.3 The regulation at 37 C.F.R. § 401.2(a) currently defines “funding agreement” as any contract, grant, or cooperative agreement entered into between any Federal agency, other than the Tennessee Valley Authority, and any contractor for the performance of experimental, developmental, or research work funded in whole or in part by the Federal government. This term also includes any assignment, substitution of parties, or subcontract of any type entered into for the performance of experimental, developmental, or research work under a funding agreement as defined in the first sentence of this paragraph.

23.0 STATE LAW REQUIREMENTS FOR CONTRACTS:

The contents of this section are required by Texas Law and are included by County regardless of content.

- 23.1 Agreement to Not Boycott Israel Chapter 2271 Texas Government Code: Contractor verifies that if Contractor employs ten (10) or more full-time employees and this Agreement has a value of \$100,000 or more, Contractor does not boycott Israel and will not boycott Israel during the term of this Agreement.
- 23.2 Texas Government Code Section 2251.152 Acknowledgment: By signature on vendor form, Contractor represents pursuant to Section 2252.152 of the Texas

Government Code, that Contractor is not listed on the website of the Comptroller of the State of Texas concerning the listing of companies that are identified under Section 806.051, Section 807.051 or Section 2253.153.

24.0 HUMAN TRAFFICKING:

By acceptance of this contract, Contractor acknowledges that Fort Bend County is opposed to human trafficking and that no County funds will be used in support of services or activities that violate human trafficking laws.

25.0 FEDERAL CLAUSES:

Refer to Exhibit I for federal clauses.

26.0 PURCHASE ORDER AND DELIVERY:

The contractor shall not deliver products or provide services without a Fort Bend County Purchase Order. Every tender or delivery of goods must fully comply with all provisions of these requirements and the specifications including time, delivery and quality. Nonconformance shall constitute a breach, which must be rectified prior to expiration of the time for performance. Failure to rectify within the performance period will be considered cause to reject future deliveries and cancellation of the contract by Fort Bend County without prejudice to other remedies provided by law. **Delivery of this item is to take place before or on Thursday, August 23, 2023.**

27.0 EVALUATION CRITERIA:

In order to facilitate the analysis of responses to this Proposal, Respondents are required to prepare their proposals in accordance with the instructions outlined in this part. Proposals should be prepared as simply as possible and provide a straightforward, concise description of the Respondent's capabilities to satisfy the requirements of the Proposal. Emphasis should be concentrated on accuracy, completeness, and clarity of content. All parts, pages, figures, and tables should be numbered and clearly labeled.

- 27.1 Respondents are required to follow the outline below when preparing their proposals:

Tab	Title
	Title Page
	Table of Contents
	Executive Summary
1	Overall completeness of submission & understanding of requirements
2	Firm Performance
3	Product Design and Performance
4	Cost
5	Delivery Schedule

- 27.2 Any exceptions to the Proposal requirements shall be identified in the applicable section.
- 27.3 Proposals shall be single-sided using 12 point or greater font size. Proposal pages shall be numbered and bound, or in a 3-ring binder with the proposing Respondent's name clearly indicated on the cover.
- 27.4 Executive Summary - This section should be limited to a brief narrative highlighting the company's background and experience. Narrative should clearly demonstrate compliance with qualifications listed in the RFP specifications. Include length of time the company has been in business.
- 27.5 Respondents will be evaluated utilizing the factors, as weighted below:

Tab 1 Overall completeness of submission & understanding of requirements (weight factor = 15%)

- All required forms, certifications, quality of proposal, and adherence to instructions.
- Respondents must express, in detail, their understanding of the specifications.
- Provide list of company, manufacturing location, and engineering source for each individual major component, as stated in Section 7.1.

Tab 2 Firm Performance (weight factor = 25%)

- Provide documentation of a minimum of five (5) years' in business including the Respondent's overall organizational and financial capabilities and key components such as organizational reporting structure, quality control, quality assurance, research and development, technical, training and parts support, response time, product capabilities, and financial history.
- Such experience must be in the form of providing hazmat vehicles to state/municipal/county government. Specific experience in providing hazmat vehicles in accordance with meeting NFPA Standards and complying with any and all applicable federal and state statutes, regulations, policies, guidelines and requirements.
- List a minimum of three (3) references within the last five (5) years; provide the name and location of client, date of delivery, item delivered, completion time for delivery, contact person with phone number and email address.

- Provide details of any past or pending judgements, liens, fleet defect history, and warranty claims as well as the efforts taken to resolve concerns.

Tab 3 Product Design and Performance (weight factor = 30%)

- Vehicle construction and system design, as well as documented reliability and other design and performance elements of the components that comprise those systems. At a minimum, test results, safety and maintenance factors, and cost of normal operation for the design and system components proposed will be considered in determining a final value for this factor.

Tab 4 Cost (weight factor = 25%)

Tab 5 Delivery Schedule (weight factor = 5%)

- The delivery is to take place before or on, Thursday, August 31, 2023.
- Provide an earlier date if possible.

28.0 EVALUATION PROCESS:

- 28.1 After the proposals are received, the evaluation team shall evaluate each proposal that was submitted on time, and the evaluation shall be based on the criteria listed in the proposal. Selection committee members will conduct a quantitative evaluation according to a numerical ranking system and a qualitative evaluation for over all proposal content and its conformance to requirements. The entire evaluation committee will then meet to discuss the strong and weak points of each proposal to assure that it has been evaluated fairly, impartially and comprehensively. Following this initial evaluation, the evaluation team may recommend contract award without further discussion with Respondents, or the firms submitting the top rated proposals may be asked to make an oral presentation to the evaluation team for the propose of further clarification and evaluation of the proposals.
- 28.2 If oral presentations are scheduled, the representatives of the firm who will be directly assigned to the account must be present at the interview. During the interview portion of the meeting, the evaluation team shall advise the Respondent of deficiencies in the proposal and shall allow the Respondent to satisfy the requirements, questions, or concerns by submitting a final offer. The Respondent may decide not to modify their proposal and may inform Fort Bend County that the offer is firm and final.
- 28.3 The evaluation team shall not disclose any information included in a firm's proposal to another firm during the RFP process and shall not disclose any information for the purpose of bringing one firm's proposal up to that of a competitor's proposal.

- 28.4 After final offers are received, the evaluation team shall reevaluate each of the final offers, including those deemed final at the interview. The final offers shall be evaluated on the same criteria used in the first evaluation.
- 28.5 Fort Bend County reserves the right to reject any and all proposals received for any reason that would be to the benefit of Fort Bend County.
- 28.6 All proposals submitted are to be valid for a period of ninety (90) days.

29.0 AWARD:

Proposals will be opened on the date specified on the cover page and kept confidential until the Fort Bend County Commissioners Court awards a final negotiated contract. Only the names of the respondents will be read aloud during the opening. All proposals that have been submitted shall be open to public inspection after the contract award.

30.0 ADDITIONAL REQUIRED FORMS:

All vendors submitting are required to complete the attached and return with submission:

- 30.1 Vendor Form
- 30.2 W9 Form
- 30.3 Tax Form/Debt/Residence Certification

31.0 EXHIBIT:

- 31.1 Federal Clauses

REQUIRED CONTRACT PROVISIONS FOR CONTRACTS UNDER FEDERAL AWARDS.

Contractor understands and acknowledges that this Agreement may be totally or partially funded with federal and or state funds from the Department of Homeland Security and or the Office of the Governor. As a condition of receiving these funds, Contractor represents that it is and will remain in compliance with all federal and or state terms as stated below. These terms flow down to all third party contractors and their subcontracts at every tier that exceed the simplified acquisition threshold, unless a particular award term or condition specifically indicates otherwise. The Contractor shall require that these clauses shall be included in each covered transaction at any tier.

1. ADA Access.

The Contractor agrees to comply with all applicable provisions of section 504 of the Rehabilitation Act of 1973, as amended, with 29 U.S.C. § 794, which prohibits discrimination on the basis of disability; with the Americans with Disabilities Act of 1990 (ADA), as amended, 42 U.S.C. §§ 12101 et seq., which requires that accessible facilities and services be made available to individuals with disabilities; and with the Architectural Barriers Act of 1968, as amended, 42 U.S.C. §§ 4151 et seq., which requires that buildings and public accommodations be accessible to individuals with disabilities, and any subsequent amendments to these laws; (4) U.S. DOJ regulations, "Nondiscrimination on the Basis of Disability in State and Local Government Services," 28 C.F.R. Part 35; (5) U.S. DOJ regulations, "Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities," 28 C.F.R. Part 36; (6) U.S. General Services Administration (U.S. GSA) regulations, "Accommodations for the Physically Handicapped," 41 C.F.R. Subpart 101-19; (7) U.S. EEOC, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 C.F.R. Part 1630.

2. Byrd Anti-Lobbying Amendment.

Contractors who apply or bid for an award of \$100,000 or more shall file the certification required by 49 C.F.R. Part 20, "New Restrictions on Lobbying." Contractor and certifies that it and all its subcontractors at every tier will not and have 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, award, including any extension, continuation, renewal, amendment, or modification 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.

Grant funds may not be used in connection with the following acts by agencies or individuals employed by grant funds:

A. Unless specifically authorized to do so by federal law, grant recipients or their subgrantees or contractors are prohibited from using grant funds directly or indirectly for political purposes, including lobbying or advocating for legislative programs or changes; campaigning for, endorsing, contributing to, or otherwise supporting political candidates

or parties; and voter registration or get-out-the-vote campaigns. Generally, organizations or entities which receive federal funds by way of grants, contracts, or cooperative agreements do not lose their rights as organizations to use their own, private, non-federal resources for “political” activities because of or as a consequence of receiving such federal funds. These recipient organizations must thus use private or other non-federal money, receipts, contributions, or dues for their political activities, and may not charge off to or be reimbursed from federal contracts or grants for the costs of such activities.

B. Grant officials or grant funded employees may not use official authority or influence or permit the use of a program administered by the grantee agency of which the person is an officer or employee to interfere with or affect the result of an election or nomination of a candidate or to achieve any other political purpose.

C. Grant-funded employees may not coerce, attempt to coerce, command, restrict, attempt to restrict, or prevent the payment, loan, or contribution of anything of value to a person or political organization for a political purpose.

D. Grant funds will not be used, either directly or indirectly, in support of the enactment, repeal, modification, or adoption of any law, regulation or policy, at any level of government, without the express prior approval of OOG and applicable federal funding agencies. If any non-grant funds have been or will be used in support of the enactment, repeal, modification, or adoption of any law, regulation or policy, at any level of government, it will notify OOG to obtain the appropriate disclosure form. E. Grant funds may not be used to employ, as a regular full-time or part-time or contract employee, a person who is required by Chapter 305 of the Government Code to register as a lobbyist. Furthermore, grant funds may not be used to pay, on behalf of the agency or an officer or employee of the agency, membership dues to an organization that pays part or all of the salary of a person who is required by Chapter 305 of the Government Code to register as a lobbyist.

F. Grant funds – whether expended by the grantee or by any subgrantee or subcontractor – will not be used for political polling. This prohibition regarding political polling does not apply to a poll conducted by an academic institution as a part of the institution’s academic mission that is not conducted for the benefit of a particular candidate or party.

G. As applicable, the grantee will comply with 31 USC § 1352, which provides that none of the funds provided under an award may be expended by the grantee to pay any person to influence, or attempt to influence 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 any Federal action concerning the award or renewal.

3. Child Support.

Per Texas Family Code 231.006, a child support obligor or business entity remains ineligible to receive payments from state funds under a contract to provide property, materials, or services; or a state funded loan until: (1) all arrearages have been paid; (2) the obligor is in compliance with a written repayment agreement or court order as to any existing delinquency; or (3) the court of continuing jurisdiction over the child support order has granted the obligor an exemption from ineligibility as part of a court-supervised effort to improve earnings and child support payments.

Before payment can be released Contractor will supply County with the name and social security number of the individual or sole proprietor and each partner, shareholder, or owner with an ownership interest of at least 25 percent of the business entity.

Under Section 231.006, Family Code, the Contractor certifies that the individual or business entity named in this contract, bid, or application is not ineligible to receive the specified grant, loan, or payment and acknowledges that this contract may be terminated and payment may be withheld if this certification is inaccurate.

4. Civil Rights/Nondiscrimination Requirements.

Contractor will comply, with the nondiscrimination requirements which may include the Civil Rights Act of 1964 (42 USC § 2000d); the Civil Rights Act of 1968 (42 USC § 3601 et seq.); the Rehabilitation Act of 1973 (29 USC § 794); the Americans with Disabilities Act (ADA) of 1990 (42 USC § 12131-34); the Education Amendments of 1972 (USC §§ 1681, 1683, 1685-86); Title IX of the Education Amendments of 1972 (Equal Employment in Education Act) (20 USC § 1681 et seq.); the Age Discrimination Act of 1975 (42 USC §§ 6101-07); Titles I, II and III of the Americans with Disabilities Act; the Drug Abuse and Treatment Act of 1972 (PL 92-255); the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment, and Rehabilitation Act of 1970 (PL 91-616); Sections 523 and 527 of the Public Health Service Act of 1912 (42 USC §§ 290dd-3 and 290ee-3); and 28 CFR 38 (Equal Treatment for Faith-Based Organizations); see Ex. Order 13279 (equal protection of the laws for faith-based and community organizations) and Ex. Order 13559 (fundamental principles and policymaking criteria for partnerships with faith-based and neighborhood organizations).

More specifically, Contractor will comply with:

a. Americans with Disabilities Act of 1990. Contractor must comply with the requirements of Titles I, II, and III of the Americans with Disabilities Act, Pub. L. No. 101-336 (1990) (codified as amended at 42 U.S.C. Sections 12101- 12213), which prohibits recipients of federal funds from discriminating on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities.

b. Civil Rights Act of 1968. Contractor must comply with Title VIII of the Civil Rights Act of 1968, Pub. L. No. 90- 284, as amended through Pub. L. 113-4, which prohibits recipients of federal funds from discriminating in the sale, rental, financing, and advertising of dwellings, or in the provision of services in connection therewith, on the basis of race, color, national origin,

religion, disability, familial status, and sex (see 42 U.S.C. Section 3601 et seq.), as implemented by the U.S. Department of Housing and Urban Development at 24 C.F.R. Part 100. The prohibition on disability discrimination includes the requirement that new multifamily housing with four or more dwelling units-i.e., the public and common use areas and individual apartment units (all units in buildings with elevators and ground-floor units in buildings without elevators)-be designed and constructed with certain accessible features. (See 24 C.F.R. Section 100, Subpart D).

c. Civil Rights Act of 1964-Title VI. Contractors must comply with the requirements of Title VI of the Civil Rights Act of 1964 (codified as amended at 42 U.S.C. Section 2000d et seq.), which provides that no person in the United States will, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance. DHS implementing regulations for the Act are found at 6 C.F.R. Part 21 and 44 C.F.R. Part 7.

d. Rehabilitation Act of 1973. Contractor must comply with the requirements of Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. Section 794), as amended, which provides that no otherwise qualified handicapped individuals in the United States will, solely by reason of the handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.

e. Nondiscrimination in Matters Pertaining to Faith-Based Organizations. It is DHS policy to ensure the equal treatment of faith-based organizations in social service programs administered or supported by DHS or its component agencies, enabling those organizations to participate in providing important social services to beneficiaries. Contractors must comply with the equal treatment policies and requirements contained in 6 C.F.R. Part 19 and other applicable statutes, regulations, and guidance governing the participations of faith-based organizations in individual DHS programs.

f. Education Amendments of 1972. Contractors must comply with the requirements of Title IX of the Education Amendments of 1972, Pub. L. No. 92-318 (1972) (codified as amended at 20 U.S.C. Section 1681 et seq.), which provide that no person in the United States will, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving federal financial assistance. DHS implementing regulations are codified at 6 C.F.R. Part 17 and 44 C.F.R. Part 19.

g. Age Discrimination Act of 1975. Contractor must comply with the requirements of the Age Discrimination Act of 1975 (Title 42 U.S. Code, Section 6101 et seq.), which prohibits discrimination on the basis of age in any program or activity receiving federal financial assistance.

The Contractor also agrees to include these requirements in each subcontract financed in whole or in part with Federal assistance provided by the Office of the Governor and U.S. Department of Homeland Security, modified only if necessary to identify the affected parties.

5. Clean Air.

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 County and understands and agrees that the County will, in turn, report each violation as required to assure notification to Office of the Governor and U.S. Department of Homeland Security and the appropriate EPA Regional Office. The Contractor agrees it will not use any violating facilities. It will report the use of facilities placed on or likely to be placed on the U.S. EPA "List of Violating Facilities". It will report violations of use of prohibited facilities to the Office of the Governor and U.S. Department of Homeland Security.

The Contractor also agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by the Office of the Governor and U.S. Department of Homeland Security.

6. Clean Water.

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 County and understands and agrees that the County will, in turn, report each violation as required to assure notification to the Office of the Governor and U.S. Department of Homeland Security and the appropriate EPA Regional Office. The Contractor agrees it will not use any violating facilities. It will report the use of facilities placed on or likely to be placed on the U.S. EPA "List of Violating Facilities". It will report violations of use of prohibited facilities to the Office of the Governor and U.S. Department of Homeland Security.

The Contractor also agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by the Office of the Governor and U.S. Department of Homeland Security.

7. Compliance with Federal Law, Regulations, and Executive Orders.

Contractor's attention is called to the fact that this Agreement between County and Contractor will be subject to financial assistance contracts between the County and various State or Federal agencies. The Agreement to be awarded, therefore, is subject to the terms of these agreements and will not proceed without these agreements having been duly executed. The Contractor will be required to comply with, in addition to other provisions of the agreement, the conditions required by applicable federal regulations. Contractor will comply with all applicable federal law, regulations, executive orders, policies, procedures, and directives.

8. Contracting with Small, Minority Firms, Women's Business Enterprises and Labor Surplus Area Firms.

Contractor will take all necessary, affirmative steps to assure that qualified small and minority businesses, women's business enterprises, and labor area surplus firms are used when possible by:

- a) Placing small and minority businesses and women's business enterprises on solicitation lists;
- b) Assuring that it solicits small and minority businesses and women's business enterprises whenever they are potential sources;
- c) Dividing total requirements, *when economically feasible*, into smaller tasks or quantities to permit maximum participation by small and minority businesses and women's business enterprises;
- d) Establishing delivery schedules, *where the requirement permits*, which encourage participation by small and minority businesses and women's business enterprises;
- e) Utilizing the assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce;
- f) Contractor must require subcontractors to take the five affirmative steps described in a-e above.

9. Cooperation with Monitoring, Audits and Records Requirements.

The Contractor agrees to cooperate with the Office of the Governor and any relevant federal agency generally, including on any compliance review or complaint investigation conducted by the Federal sponsoring agency or the Office of the Governor and on all grant monitoring requests, including requests related to desk reviews, enhanced programmatic desk reviews, and/or site visits.

The Contractor shall maintain adequate records that enable the Office of the Governor and any relevant federal agency to complete monitoring tasks, including to verify all reporting measures, requests for reimbursements, and expenditure of match funds related to this Grant Agreement. The Contractor shall maintain such records as are deemed necessary by the Office of the Governor, the State Auditor's Office, other auditors of the State of Texas, the federal government or such other persons or entities designated or authorized by the Office of the Governor to ensure proper accounting for all costs and performances related to this Grant Agreement.

The Office of the Governor may request documented proof of payment. Acceptable proof of payment includes, but is not necessarily limited to, a receipt or other documentation of a paid invoice, a general ledger detailing the specific revenue and expenditures, a monthly bank statement evidencing payment of the specific expenditure, bank reconciliation detail, copies of processed checks, or a printed copy of an electronic payment confirmation evidencing payment of the specific expenditure to which the reimbursement relates.

The Contractor authorizes DHS, the Office of the Governor, the Texas State Auditor's Office, the Comptroller General of the United States, and any relevant federal agency, and their representatives, the right to audit, examine, and copy all paper and electronic records, books, documents, accounting procedures, practices, and any other requested records, in any form; relevant to this Agreement and will make them readily available upon request. The Contractor will similarly permit access to facilities, personnel, and other individuals and information as may be necessary.

If requested, the Contractor shall submit to the Office of the Governor a copy of its most recent independent financial audit, any audited financial statements, related management letters and management responses of Contractor, and financial audit documents or portions thereof that are directly related to the Contractor's performance of its obligations under this Agreement.

The Office of the Governor may make unannounced monitoring visits at any time but will, whenever practical as determined at the sole discretion of the Office of the Governor, provide the Contractor with up to five (5) business days advance notice of any such examination or audit. Any audit of records shall be conducted at the Contractor's principal place of business and/or the location(s) of the Contractor's operations during the Contractor's normal business hours. The Contractor shall provide to the Office of the Governor or its designees, on the Contractor's premises, private space, office furnishings (including lockable cabinets), telephone services and Internet connectivity, utilities, and office-related equipment and duplicating services as the Office of the Governor or its designees may reasonably require to perform the audits described in this section.

In addition to the information contained in the required reports, other information may be required as requested by the Office of the Governor, including the Office of the Governor asking for more information regarding project performance or funds expenditures. In the event the Office of the Governor requires additional information regarding the information or data submitted, the Contractor will promptly provide the additional information. The Contractor also agrees to assist the Office of the Governor in responding to questions and assisting in providing information responsive to any audit, legislative request, or other inquiry regarding the grant award. Upon the request of the Office of the Governor, the Contractor must submit to the Office of the Governor any additional documentation or explanation the Office of the Governor may desire to support or document the requested payment or report submitted under this Agreement.

If after a written request by the Office of the Governor or a relevant federal agency, the Contractor fails to provide required reports, information, documentation, or other information within reasonable deadlines set by the Office of the Governor or the relevant federal agency, as required by this Agreement, or fails to fulfil any requirement in this section, then the Office of the Governor may consider this act a possible default under this Agreement, and the Contractor may be subject to sanctions including but not limited to, withholdings and/or other restrictions on the access to funds; referral to relevant agencies for audit review; designation of the Contractor as a high-risk Contractor; or termination of awards.

Contractor, at the sole cost of Contractor, agrees to cooperate with the creation, monitoring, and timely execution of any corrective action plan developed by the County, OOG, or relevant federal agency, to address any findings, discrepancies, inadequacies, or deficiencies which an audit, financial or programmatic monitoring, investigations, review of awards, or other compliance review identifies. The failure to promptly and adequately address any investigative findings may result in grant funds being withheld, other related requirements being imposed, or other sanctions and penalties. Contractor understands and agrees that it must make every effort to address and resolve all outstanding issues, findings, or actions identified by OOG (and/or, in the case of a federally funded grant, a relevant federal agency) through the corrective action plan or any other corrective plan.

10. Debt to State

The State shall not be responsible for any debts associated with this Agreement.

11. DHS Specific Acknowledgements and Assurances.

All Contractors, successors, transferees, and assignees must acknowledge and agree to comply with applicable provisions governing DHS access to records, accounts, documents, information, facilities, and staff.

- a. Contractor must cooperate with any compliance reviews or compliance investigations conducted by DHS.
- b. Contractor must give DHS access to, and the right to examine and copy, records, accounts, and other documents and sources of information related to the federal financial assistance award and permit access to facilities, personnel, and other individuals and information as may be necessary, as required by DHS regulations and other applicable laws or program guidance.
- c. Contractor must submit timely, complete, and accurate reports to the appropriate DHS officials and maintain appropriate backup documentation to support the reports.
- d. Contractor must comply with all other special reporting, data collection, and evaluation requirements, as prescribed by law or detailed in program guidance.

12. Disputes and Resolutions.

Contractor understands that for all subcontracts of \$250,000 or more, the Contractor must include terms to address dispute resolution between the parties who shall attempt in good faith to resolve promptly any dispute arising out of or relating to the Agreement by negotiation between the parties.

13. Drug-Free Workplace Regulations.

Contractor must comply with drug-free workplace requirements of 2 C.F.R. Part 3001, which adopts the Government-wide implementation (2 C.F.R. Part 182) of Sec. 5152-5158 of the *Drug-Free Workplace Act of 1988* (41 U.S.C. §§ 8101-8106).

14. Examination of Records.

The Contractor agrees to provide County, the Office of the Governor and U.S. Department of Homeland Security, 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 the Agreement for the purposes of making audits, examinations, excerpts and transcriptions. 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.

The Contractor agrees to comply and will require all subcontractors of any tier to comply with the record retention requirements in accordance with 2 C.F.R. 200.333. The Contractor agrees to

retain, and will require its subcontractors of all tiers to retain, complete and readily accessible records related in whole or in part to the contract, including, but not limited to, all books, records, accounts, statistics, leases, subcontracts, arrangements other third party arrangements of any type, reports, and supporting materials related to those records required under the Agreement for a period of not less than three years after the date of termination or expiration of the Agreement, except in the event of litigation or settlement of claims arising from the performance of the Agreement, in which case Contractor agrees to maintain same until County, the Office of the Governor and U.S. Department of Homeland Security, the Comptroller General, or any of their duly authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto.

15. Federal Debt

Contractor is required to be non-delinquent in their repayment of any federal debt. Examples of relevant debt include delinquent payroll and other taxes, audit disallowances, and benefit overpayments. (See OMB Circular A-129).

16. Fly America.

The Contractor agrees to comply with Preference for U.S. Flag Air Carriers (air carriers holding certificates under 49 U.S.C. Section 41102) for international air transportation of people and property to the extent that such service is available, in accordance with the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. Section 40118) and the interpretative guidelines issued by the Comptroller General of the United States in the March 31, 1981 amendment to Comptroller General Decision B-138942.

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

17. Government-wide Debarment and Suspension.

The Contractor shall comply and facilitate compliance with the U.S. Office of Management and Budget (U.S. OMB) "Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement)," 2 C.F.R. part 180. A contract award in any tier must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 C.F.R. § 180 that implement Executive Orders Nos. 12549 (3 C F R part 1986 Comp., p. 189) and 12689 (3 C.F.R. part 1989 Comp., p. 235),

“Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order No. 12549. These provisions apply to each contract at any tier of \$25,000 or more, and to each contract at any tier for a federally required audit (irrespective of the contract amount).

This certification is a material representation of fact relied upon by the County. If it is later determined that the Contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to DHS and County, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

Contractor agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The Contractor further agrees to include a provision requiring such compliance in its lower tier covered transactions.

18. Program Fraud, False Claims Act and Program Fraud Civil Remedies.

Contractor understands that County does not tolerate any type of fraud, waste or misuse of funds. Contractor shall comply with the requirements of the False Claims Act (31 U.S.C. Section 3729-3733) which prohibits the submission of false or fraudulent claims for payment to the federal government. Contractor understands and agrees that misuse of funds may result in a range of penalties, including suspension of current and future funds, suspension or debarment from federal and state grants, recoupment of monies provided under an award, and civil and/or criminal penalties. (See 31 U.S.C. Section 381-3812 which details the administrative remedies for false claims and statements made.)

The Contractor agrees to include the above clause in each subcontract financed in whole or in part with funds from this Agreement.

19. Domestic Preferences for Procurements.

As appropriate and to the extent consistent with law, Contractor shall to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section must be included in all subawards including all contracts and purchase orders for work or products procured with federal funds. For purposes of this clause, (1) “Produced in the United States” means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States. (2) “Manufactured products” means items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

20. Reporting of Fraud, Waste, and Abuse.

In the event, County becomes aware of any allegation or a finding of fraud, waste, or misuse of funds received for the performance of this Agreement, the County is required to immediately notify OOG of said allegation or finding and to continue to inform OOG of the status of any such on-going investigations. The County must promptly refer to OOG any credible evidence that a principal, employee, agent, subrecipient, contractor, subcontractor, or other person has -- (1) submitted a claim for award funds that violates the False Claims Act; or (2) committed a criminal or civil violation of laws pertaining to fraud, conflict of interest, bribery, gratuity, or similar misconduct involving award funds. County must also immediately notify OOG in writing of any misappropriation of funds, fraud, theft, embezzlement, forgery, or any other serious irregularities indicating noncompliance with grant requirements.

The County shall report any possible fraudulent or dishonest acts, waste, or abuse to OOG's Fraud Coordinator or Ethics Advisor at (512) 463-1788 or in writing to: Ethics Advisor, Office of the Governor, P.O. Box 12428, Austin, Texas 78711.

21. Restrictions and Certifications Regarding Non-Disclosure Agreements and Related Matters.

Contractor certifies that they have not required any employee or contractor to sign an internal confidentiality agreement or statement that prohibits or otherwise restricts, or purports to prohibit or restrict, the reporting (in accordance with law) of waste, fraud, or abuse to an investigative or law enforcement representative of a state or federal department or agency authorized to receive such information.

22. National Environmental Policy Act.

Contractor must comply with the requirements of the National Environmental Policy Act (NEPA) and the Council on Environmental Quality (CEQ) Regulations for Implementing the Procedural Provisions of NEPA, which requires recipients to use all practicable means within their authority, and consistent with other essential considerations of national policy, to create and maintain conditions under which people and nature can exist in productive harmony and fulfill the social, economic, and other needs of present and future generations of Americans.

23. No Obligation by Federal Government.

The Federal Government is not a party to this Agreement and is not subject to any obligations or liabilities to the County, Contractor, or any other party pertaining to any matter resulting from the Agreement.

24. Notice of Funding Opportunity.

All of the instructions, guidance, limitations, and other conditions set forth in the federal Notice of Funding Opportunity (NOFO) for this program are incorporated here by reference in the award

terms and conditions.

25. Political Activities.

Contractor must comply with 31 U.S.C. Section 1352, which provides that none of the funds provided under a federal financial assistance award may be expended by the recipient to pay any person to influence, or attempt to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee or a Member of Congress in connection with any federal action related to a federal award or contract, including any extension, continuation, renewal, amendment, or modification.

26. Best Practices for Collection and Use of Personally Identifiable Information (PII)

If Contractor collects Personally Identifiable Information (PII), they are required to have a publically-available privacy policy that describes standards in the usage and maintenance of PII they collect. DHS defines PII as any information that permits the identity of an individual to be directly or indirectly inferred, including any information that is linked or linkable to that individual. Recipients may also find the DHS Privacy Impact Assessments: Privacy Guidance and Privacy template as useful resources respectively. This requirement applies to all agreements being paid for with funds from the Office of the Governor.

27. Prohibited Telecommunications and Video Surveillance Services and Equipment.

Contractor understands and acknowledges that under 2 CFR 200.216, the County is prohibited from using federal funds to procure, obtain, extend or renew a contract to procure or obtain covered telecommunications equipment or services, including telecom equipment produced by Huawei Technologies Company or ZTE Corp. (or subsidiaries or affiliates of such entities).

Contractor, therefore, certifies that they are in compliance with the [John S. McCain National Defense Authorization Act for Fiscal Year 2019 \(FY 2019 NDAA\)](#), Pub. L. No. 115-232 (2018), and that in the performance of this agreement, it will not provide equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in [Public Law 115-232](#), section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).

(i) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any [subsidiary](#) or affiliate of such entities).

(ii) Telecommunications or video surveillance services provided by such entities or using such equipment.

(iii) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

28. Prompt Payment.

The Contractor is required to pay its subcontractors performing work related to this Agreement for satisfactory performance of that work no later than 30 days after the Contractor's receipt of payment for that work from County. In addition, the Contractor is required to return any retainage payments to those subcontractors within 30 days after the subcontractor's work is satisfactorily completed.

29. Procurement of Recovered Materials.

Contractor must comply with Section 6002 of the Solid Waste Disposal Act, Pub. L. No. 89-272 (1965) (codified as amended by the Resource Conservation and Recovery Act, 42 U.S.C. section 6962). The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 C.F.R. Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition.

30. Retention of Records

The Contractor agrees to maintain fiscal records and supporting documentation for all expenditures related to this Agreement pursuant to 2 CFR 200.333, UGMS, and state law. Contractor must retain, and will require its subcontractors of all tiers to retain, these records and any supporting documentation for a minimum period of not less than three (3) years after the date of termination or expiration of the Agreement or any litigation, dispute, or audit arising from the performance of the Agreement. Records related to real property and equipment acquired with grant funds shall be retained for three (3) years after final disposition. If requested by the Office of the Governor's Homeland Security Grant Division (HSGD), the County may direct the Contractor to retain documents for a longer period of time or transfer certain records to HSGD custody when it is determined the records possess longer term retention value.

31. SAFECOM

Any emergency communication equipment and its related activities provided as a part of this Agreement must comply with the SAFECOM Guidance for Emergency Communication Grants, including provisions on technical standards that ensure and enhance interoperable communications.

32. Termination for Cause and Termination for Convenience.

Contractor understands that all contracts in excess of \$10,000, including subcontracts, must

address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.

33. Terrorist Financing.

Contractor must comply with E.O. 13224 and U.S. law that prohibit transactions with, and the provisions of resources and support to, individuals and organizations associated with terrorism.

34. Text Messaging While Driving.

Contractor is encouraged to adopt and enforce policies that ban text messaging while driving as described in E.O. 13513, including conducting initiatives described in Section 3(a) of the Order when on official government business or when performing any work for or on behalf of the federal government.

35. Trafficking Victims Protection Act.

Contractor will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from awarding funds to a private entity or individual who has (1) engaged in severe forms of trafficking in persons during the period of time that the award is in effect; (2) procured a commercial sex act during the period of time that the award is in effect; (3) used forced labor in the performance of the award or subawards under the award; or (4) engaged in acts that directly support or advance trafficking in persons as set forth in 22 U.S.C. § 7104(g)(4). Contractor shall inform County immediately upon receipt of any information from any source alleging a violation of a prohibition of the TVPA. Violation of this clause, may result in termination of this Agreement.

36. USA Patriot Act of 2001.

Contractor must comply with requirements of the Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism Act (USA PATRIOT Act), which amends 18 U.S.C. Sections 175-175c.

37. Use of DHS Seal, Logo and Flags.

Contractor must obtain permission from DHS, prior to using the DHS seal(s), logos, crests or reproductions of flags or likenesses of DHS agency officials, including use of the United States Coast Guard seal, logo, crests or reproductions of flags or likenesses of Coast Guard officials.

38. Whistleblower Protections.

Contractor must comply with the statutory requirements for whistleblower protections (if applicable) at 10 U.S.C Section 2409, 41 U.S.C. 4712, and 10 U.S.C. Section 2324, 41 U.S.C. Sections 4304 and 4310.

39. Energy Policy and Conservation Act

Contractor must comply with the requirements of The Energy Policy and Conservation Act, Pub. L. No. 94-163 (1975) (codified as amended at 42 U.S.C. Section 6201 et seq.) which contain policies relating to energy efficiency that are defined in the state energy conservation plan issued in compliance with this Act.

EXHIBIT C

Statement of Grant Award (SOGA)

The Statement of Grant Award is the official notice of award from the Office of the Governor (OOG). This Grant Agreement and all terms, conditions, provisions and obligations set forth herein shall be binding upon and shall inure to the benefit of the Parties and their respective successors and assigns and all other State of Texas agencies and any other agencies, departments, divisions, governmental entities, public corporations, and other entities which shall be successors to each of the Parties or which shall succeed to or become obligated to perform or become bound by any of the covenants, agreements or obligations hereunder of each of the Parties hereto.

The approved project narrative and budget for this award are reflected in eGrants on the 'Narrative' and 'Budget/Details' tabs. By accepting the Grant Award in eGrants, the Grantee agrees to strictly comply with the requirements and obligations of this Grant Agreement including any and all applicable federal and state statutes, regulations, policies, guidelines and requirements. In instances where conflicting requirements apply to a Grantee, the more restrictive requirement applies.

The Grant Agreement includes the Statement of Grant Award; the OOG Grantee Conditions and Responsibilities; the Grant Application in eGrants; and the other identified documents in the Grant Application and Grant Award, including but not limited to: 2 CFR Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards; Chapter 783 of the Texas Government Code, Title 34, Part 1, Chapter 20, Subchapter E, Division 4 of the Texas Administrative Code, and the Uniform Grant Management Standards (UGMS) developed by the Comptroller of Public Accounts; the state Funding Announcement or Solicitation under which the grant application was made, and for federal funding, the Funding Announcement or Solicitation under which the OOG was awarded funds; and any applicable documents referenced in the documents listed above. For grants awarded from the U.S. Department of Justice, the current applicable version of the Department of Justice Grants Financial Guide and any applicable provisions in Title 28 of the CFR apply. For grants awarded from the Federal Emergency Management Agency (FEMA), all Information Bulletins and Policies published by the FEMA Grants Program Directorate apply. The OOG reserves the right to add additional responsibilities and requirements, with or without advance notice to the Grantee.

By clicking on the 'Accept' button within the 'Accept Award' tab, the Grantee accepts the responsibility for the grant project, agrees and certifies compliance with the requirements outlined in the Grant Agreement, including all provisions incorporated herein, and agrees with the following conditions of grant funding. The grantee's funds will not be released until the grantee has satisfied the requirements of the following Condition(s) of Funding and Other Fund-Specific Requirement(s), if any, cited below:

Grant Number:	2971007	Award Amount:	\$748,853.00
Date Awarded:	PREVIEW - AWARD NOT ACTIVE	Grantee Cash Match:	\$0.00
Grant Period:	09/01/2021 - 12/31/2022	Grantee In Kind Match:	\$0.00
Liquidation Date:	03/31/2023	Total Project Cost:	\$748,853.00
Program Fund:	HS-Homeland Security Grant Program (HSGP)		
Grantee Name:	Fort Bend County		
Project Title:	AET - Fort Bend County - Hazmat Sustainment/Enhancement		
Grant Manager:	Jim Hershey		
DUNS Number:	081497075		

CFDA:	97.067 - Homeland Security Grant Program (HSGP)
Federal Awarding Agency:	U.S. Department of Homeland Security, Federal Emergency Management Agency
Federal Award Date:	9/12/2021
Federal/State Award ID Number:	EMW-2021-SS-00062
Total Federal Award/State	\$103,262,141.00

Funds**Appropriated:****Pass Thru****Entity Name:** Texas Office of the Governor – Homeland Security Grants Division (HSGD)**Is the Award****R&D:** No**Federal/State****Award****Description:** The purpose of the HSGP is to support state and local efforts to prevent terrorism and other catastrophic events and to prepare the Nation for the threats and hazards that pose the greatest risk to the security of the United States. The HSGP provides funding to implement investments that build, sustain, and deliver the 31 core capabilities essential to achieving the National Preparedness Goal (the Goal) of a secure and resilient Nation. The building, sustainment, and delivery of these core capabilities are not exclusive to any single level of government, organization, or community, but rather, require the combined effort of the whole community.

EXHIBIT D



Office of the Governor

Public Safety Office

Homeland Security Grants Division
Fund Specific Grant Conditions

Homeland Security Grant Program

FFY 2021 Award

September 2021

About This Document

In this document, grantees (also referred to as subrecipients) will find fund specific federal requirements and conditions applicable to the grant award administered by the Office of the Governor (OOG). These requirements and conditions are incorporated into the Grant Agreement accepted by a grant's Authorized Official.

These requirements are in addition to those that can be found on the eGrants system – including the Grant Application and Grant Award – or in documents identified there, to which grantees agreed when applying for and accepting the grant. Other state and federal requirements and conditions may apply to your grant, including but not limited to: 2 CFR Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards; Chapter 783 of the Texas Government Code; Title 34, Part 1, Chapter 20, Subchapter E, Division 4 of the Texas Administrative Code; the Texas Grant Management Standards (TxGMS) developed by the Comptroller of Public Accounts; the state Funding Announcement or Solicitation under which the grant application was made; for federal funding, the Funding Announcement or Solicitation under which OOG was awarded funds; and any applicable documents referenced in the documents listed above. For grants awarded from the Federal Emergency Management Agency (FEMA), all Information Bulletins and Policies published by the FEMA Grants Program Directorate apply. OOG reserves the right to add additional responsibilities and requirements, with or without advance notice to the grantee.

Any rights or privileges reserved or attributed to the federal awarding agency are also reserved or attributed to OOG, which may exercise them at its discretion.

It is important for grantees to review all of these policies to successfully manage their grant, maintain eligibility for funding, and avoid violating the terms of the Grant Agreement, any of which could result in the revocation of funding or other actions.

For clarification or further information, please see the Guide to Grants and other support materials at <https://eGrants.gov.texas.gov> or contact the grant manager assigned to the relevant grant. If no grant manager has been assigned, please contact the eGrants help desk via email at: eGrants@gov.texas.gov, or via telephone at: (512) 463-1919 or dial 7-1-1 for relay services.

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Article I. SAFECOM

Recipients and subrecipients receiving federal financial assistance awards made under programs that provide emergency communication equipment and its related activities must comply with the SAFECOM Guidance for Emergency Communication Grants, including provisions on technical standards that ensure and enhance interoperable communications.

Article II. National Environmental Policy Act

Recipients and subrecipients must comply with the requirements of the National Environmental Policy Act (NEPA) of 1969, Pub. L. No. 91-190 (1970) (codified as amended at 42 U.S.C. section 4321 et seq.) and the Council on Environmental Quality (CEQ) Regulations for Implementing the Procedural Provisions of NEPA, which requires recipients to use all practicable means within their authority, and consistent with other essential considerations of national policy, to create and maintain conditions under which people and nature can exist in productive harmony and fulfill the social, economic, and other needs of present and future generations of Americans.

Article III. Acknowledgement of Federal Funding from DHS

Recipients and subrecipients must acknowledge their use of federal funding when issuing statements, press releases, requests for proposal, bid invitations, and other documents describing projects or programs funded in whole or in part with federal funds.

Article IV. USA Patriot Act of 2001

Recipients and subrecipients must comply with requirements of section 817 of the Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism Act of 2001 (USA PATRIOT Act), PUB. L. No 107.56, which amends 18 U.S.C. Sections 175-175c.

Article V. Applicability of DHS Standard Terms and Conditions to Tribes

The DHS Standard Terms and Conditions are a restatement of general requirements imposed upon recipients and flow down to subrecipients as a matter of law, regulation, or executive order. If the requirement does not apply to Indian tribes or there is a federal law or regulation exempting its application to Indian tribes, then the acceptance by Tribes of, or acquiescence to, DHS Standard Terms and Conditions does not change or alter its inapplicability to an Indian tribe. The execution of grant documents is not intended to change, alter, amend, or impose additional liability or responsibility upon the Tribe where it does not already exist.

Article VI. Notice of Funding Opportunity

All of the instructions, guidance, limitations, and other conditions set forth in the federal Notice of Funding Opportunity (NOFO) for this program are incorporated here by reference in the award terms and conditions. All recipients and subrecipients must comply with any such requirements set forth in the federal program NOFO.

Article VII. Trafficking Victims Protection Act of 2000 (TVPA)

Recipients and subrecipients must comply with the requirements of the government-wide financial assistance award term which implements Section 106(g) of the Trafficking Victims Protection Act of

2000 (TVPA), codified as amended by 22 U.S.C. Section 7104. The award term is located at 2 C.F.R. Section 175.15, the full text of which is incorporated here by reference.

Article VIII. Non-Supplanting Requirement

Recipients and subrecipients receiving federal financial assistance awards made under programs that prohibit supplanting by law must ensure that federal funds do not replace (supplant) funds that have been budgeted for the same purpose through non-federal sources.

Article IX. Federal Leadership on Reducing Text Messaging While Driving

All recipients and subrecipients are encouraged to adopt and enforce policies that ban text messaging while driving as described in E.O. 13513, including conducting initiatives described in Section 3(a) of the Order when on official government business or when performing any work for or on behalf of the federal government.

Article X. Environmental Planning and Historic Preservation (EHP) Review

DHS/FEMA funded activities that may require EHP review are subject to the FEMA Environmental Planning and Historic Preservation (EHP) review process. This review does not address all federal, state, and local requirements. Acceptance of federal funding requires recipient and subrecipients to comply with all federal, state, and local laws.

DHS/FEMA is required to consider the potential impacts to natural and cultural resources of all projects funded by DHS/FEMA grant funds, through its EHP Review process, as mandated by the National Environmental Policy Act; National Historic Preservation Act of 1966, as amended; National Flood Insurance Program regulations; and, any other applicable laws and Executive Orders. To access the FEMA EHP screening form and instructions, go to the DHS/FEMA website at:

<https://www.fema.gov/media-library/assets/documents/90195>. In order to initiate EHP review of your project(s), you must complete all relevant sections of this form and submit it to the PSO along with all other pertinent project information. (NOTE: The PSO will submit the form and pertinent information to the Grant Programs Directorate (GPD)). The EHP review process must be completed before funds are released to carry out the proposed project; otherwise, DHS/FEMA may not be able to fund the project due to noncompliance with EHP laws, executive order, regulations, and policies.

If ground disturbing activities occur during construction, applicant will monitor ground disturbance, and if any potential archeological resources are discovered, applicant will immediately cease work in that area and notify the PSO if applicable, and DHS/FEMA.

Article XI. DHS Specific Acknowledgements and Assurances

All recipients, subrecipients, successors, transferees, and assignees must acknowledge and agree to comply with applicable provisions governing DHS access to records, accounts, documents, information, facilities, and staff.

1. Recipients must cooperate with any compliance reviews or compliance investigations conducted by DHS.
2. Recipients must give DHS access to, and the right to examine and copy, records, accounts, and other documents and sources of information related to the federal financial assistance award and

permit access to facilities, personnel, and other individuals and information as may be necessary, as required by DHS regulations and other applicable laws or program guidance.

3. Recipients must submit timely, complete, and accurate reports to the appropriate DHS officials and maintain appropriate backup documentation to support the reports.
4. Recipients must comply with all other special reporting, data collection, and evaluation requirements, as prescribed by law or detailed in program guidance.

Article XII. Best Practices for Collection and Use of Personally Identifiable Information

Recipients and subrecipients who collect personally identifiable information (PII) are required to have a publically-available privacy policy that describes standards on the usage and maintenance of PII they collect. DHS defines PII as any information that permits the identity of an individual to be directly or indirectly inferred, including any information that is linked or linkable to that individual. Recipients may also find the DHS Privacy Impact Assessments: Privacy Guidance at http://www.dhs.gov/xlibrary/assets/privacy/privacy_pia_guidance_june2010.pdf and Privacy Template at https://www.dhs.gov/sites/default/files/publications/privacy_pia_template_2017.pdf as useful resources respectively.

Article XIII. Debarment and Suspension

Recipients and subrecipients are subject to the non-procurement debarment and suspension regulations implementing Executive Orders (E.O.) 12549 and 12689, and 2 C.F.R. Part 180 as adopted by DHS at 2 C.F.R. Part 3000. These regulations restrict federal financial assistance awards, subawards, and contracts with certain parties that are debarred, suspended, or otherwise excluded from or ineligible for participation in federal assistance programs or activities.

Article XIV. Activities Conducted Abroad

Recipients and subrecipients must ensure that project activities carried on outside the United States are coordinated as necessary with appropriate government authorities and that appropriate licenses, permits, or approvals are obtained.

Article XV. Energy Policy and Conservation Act

Recipients and subrecipients must comply with the requirements of The Energy Policy and Conservation Act, Pub. L. No. 94-163 (1975) (codified as amended at 42 U.S.C. Section 6201 et seq.) which contain policies relating to energy efficiency that are defined in the state energy conservation plan issued in compliance with this Act.

Article XVI. Procurement of Recovered Materials

States, political subdivisions of states, and their contractors (or subrecipients) must comply with Section 6002 of the Solid Waste Disposal Act, Pub. L. No. 89-272 (1965) (codified as amended by the Resource Conservation and Recovery Act, 42 U.S.C. section 6962). The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 C.F.R. Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition.

Article XVII. Homeland Security Grant Program Performance Goal

Recipients and subrecipients must demonstrate how the grant-funded project addressed the core capability gap associated with this project and identified in the Threat and Hazard Identification and Risk Analysis (THIRA) or Stakeholder Preparedness Review (SPR) or sustains existing capabilities as applicable. The capability gap reduction must be addressed in the Project Description for each project.

Article XVIII. Terrorist Financing

Recipients and subrecipients must comply with E.O. 13224 and U.S. law that prohibit transactions with, and the provisions of resources and support to, individuals and organizations associated with terrorism. Recipients are legally responsible to ensure compliance with the Order and laws.

Article XIX. Hotel and Motel Fire Safety Act of 1990

In accordance with Section 6 of the Hotel and Motel Fire Safety Act of 1990, (15 U.S.C. Section 2225a), recipients and subrecipients must ensure that all conference, meeting, convention, or training space funded in whole or in part with federal funds complies with the fire prevention and control guidelines of the Federal Fire Prevention and Control Act of 1974, as amended, (15 U.S.C. Section 2225).

Article XX. Duplication of Benefit

Any cost allocable to a particular federal financial assistance award provided for in 2 C.F.R. Part 200, Subpart E may not be charged to other federal financial assistance awards to overcome fund deficiencies, to avoid restrictions imposed by federal statutes, regulations, or federal financial assistance award terms and conditions, or for other reasons. However, these prohibitions would not preclude recipients from shifting costs that are allowable under two or more awards in accordance with existing federal statutes, regulations, or the federal financial assistance award terms and conditions.

Article XXI. Fly America Act of 1974

Recipients and subrecipients must comply with Preference for U.S. Flag Air Carriers (air carriers holding certificates under 49 U.S.C. Section 41102) for international air transportation of people and property to the extent that such service is available, in accordance with the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. Section 40118) and the interpretative guidelines issued by the Comptroller General of the United States in the March 31, 1981 amendment to Comptroller General Decision B-138942.

Article XXII. Lobbying Prohibition

Recipients and subrecipients must comply with 31 U.S.C. Section 1352, which provides that none of the funds provided under an federal financial assistance award may be expended by the recipient to pay any person to influence, or attempt to influence 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 any federal action related to a federal award or contract, including any extension, continuation, renewal, amendment, or modification.

Article XXIII. False Claims Act and Program Fraud Civil Remedies

Recipients and subrecipients must comply with the requirements of The False Claims Act (31 U.S.C. Section 3729-3733) which prohibits the submission of false or fraudulent claims for payment to the federal government. (See 31 U.S.C. Section 3801-3812 which details the administrative remedies for false claims and statements made.)

Article XXIV. Federal Debt

Recipients and subrecipients are required to be non-delinquent in their repayment of any federal debt. Examples of relevant debt include delinquent payroll and other taxes, audit disallowances, and benefit overpayments. (See OMB Circular A-129.)

Article XXV. Disposition of Equipment

When original or replacement equipment acquired under this award by the recipient or its subrecipients is no longer needed for the original project or program or for other activities currently or previously supported by DHS/FEMA, the state must request instructions from DHS/FEMA to make proper disposition of the equipment pursuant to 2 C.F.R. Section 200.313. Subrecipients should contact PSO for instructions.

Article XXVI. Civil Rights and Nondiscrimination

Section 26.01 *Limited English Proficiency (Civil Rights Act of 1964, Title VI)*

Recipients and subrecipients must comply with the Title VI of the Civil Rights Act of 1964 (42 U.S.C. Section 2000d et seq.) prohibition against discrimination on the basis of national origin, which requires that recipients of federal financial assistance take reasonable steps to provide meaningful access to persons with limited English proficiency (LEP) to their programs and services. For additional assistance and information regarding language access obligations, please refer to the DHS Recipient Guidance <https://www.dhs.gov/guidance-published-help-department-supported-organizations-provide-meaningful-access-people-limited> and additional resources on <http://www.lep.gov>.

Section 26.02 *Americans with Disabilities Act of 1990*

Recipients and subrecipients must comply with the requirements of Titles I, II, and III of the Americans with Disabilities Act, Pub. L. No. 101-336 (1990) (codified as amended at 42 U.S.C. Sections 12101-12213), which prohibits recipients from discriminating on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities.

Section 26.03 *Rehabilitation Act of 1973*

Recipients and subrecipients must comply with the requirements of Section 504 of the Rehabilitation Act of 1973, Pub. L. No. 93-112 (1973) (codified as amended at 29 U.S.C. Section 794), as amended, which provides that no otherwise qualified handicapped individuals in the United States will, solely by reason of the handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.

Section 26.04 *Age Discrimination Act of 1975*

Recipients and subrecipients must comply with the requirements of the Age Discrimination Act of 1975, Pub. L. No. 94-135 (1975) (codified as amended at Title 42 U.S. Code, Section 6101 et seq.), which

prohibits discrimination on the basis of age in any program or activity receiving federal financial assistance.

Section 26.05 *Civil Rights Act of 1964 – Title VI*

Recipients and subrecipients must comply with the requirements of Title VI of the Civil Rights Act of 1964 (codified as amended at 42 U.S.C. Section 2000d et seq.), which provides that no person in the United States will, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance. DHS implementing regulations for the Act are found at 6 C.F.R. Part 21 and 44 C.F.R. Part 7.

Section 26.06 *Civil Rights Act of 1968*

Recipients and subrecipients must comply with Title VIII of the Civil Rights Act of 1968, Pub. L. No. 90-284, as amended through Pub. L. 113-4, which prohibits recipients from discriminating in the sale, rental, financing, and advertising of dwellings, or in the provision of services in connection therewith, on the basis of race, color, national origin, religion, disability, familial status, and sex (see 42 U.S.C. Section 3601 et seq.), as implemented by the U.S. Department of Housing and Urban Development at 24 C.F.R. Part 100. The prohibition on disability discrimination includes the requirement that new multifamily housing with four or more dwelling units-i.e., the public and common use areas and individual apartment units (all units in buildings with elevators and ground-floor units in buildings without elevators)-be designed and constructed with certain accessible features. (See 24 C.F.R. Section 100, Subpart D)

Section 26.07 *Nondiscrimination in Matters Pertaining to Faith-Based Organizations*

It is DHS policy to ensure the equal treatment of faith-based organizations in social service programs administered or supported by DHS or its component agencies, enabling those organizations to participate in providing important social services to beneficiaries. Recipients and subrecipients must comply with the equal treatment policies and requirements contained in 6 C.F.R. Part 19 and other applicable statutes, regulations, and guidance governing the participations of faith-based organizations in individual DHS programs.

Section 26.08 *Education Amendments of 1972 (Equal Opportunity in Education Act) – Title IX*

Recipients and subrecipients must comply with the requirements of Title IX of the Education Amendments of 1972, Pub. L. No. 92-318 (1972) (codified as amended at 20 U.S.C. Section 1681 et seq.), which provide that no person in the United States will, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving federal financial assistance. DHS implementing regulations are codified at 6 C.F.R. Part 17 and 44 C.F.R. Part 19.

Article XXVII. Copyrights

Recipients and subrecipients must affix the applicable copyright notices of 17 U.S.C. Sections 401 or 402 and an acknowledgement of U.S. Government sponsorship (including the award number) to any work first produced under federal financial assistance awards.

Article XXVIII. Use of DHS Seal, Logo and Flags

Recipients and subrecipients must obtain permission from their DHS FAO, prior to using the DHS seal(s), logos, crests or reproductions of flags or likenesses of DHS agency officials, including use of the United States Coast Guard seal, logo, crests or reproductions of flags or likenesses of Coast Guard officials.

Article XXIX. Whistleblower Protections

Recipients and subrecipients must comply with the statutory requirements for whistleblower protections (if applicable) at 10 U.S.C Section 2409, 41 U.S.C. 4712, and 10 U.S.C. Section 2324, 41 U.S.C. Sections 4304 and 4310.

Article XXX. Patents and Intellectual Property Rights

Recipients and subrecipients are subject to the Bayh-Dole Act, 35 U.S.C. section 200, unless otherwise provided by law. Recipients are subject to the specific requirements governing the development, reporting, and disposition of rights to inventions and patents resulting from federal financial assistance awards located at 37 C.F.R. Part 401 and the standard patent rights clause located at 37 C.F.R. Section 401.14.

Article XXXI. Operation Stonegarden Program Hold

The subrecipient is prohibited from drawing down Operation Stonegarden (OPSG) funding provided through this award until each unique, specific or modified county level, tribal or equivalent Operations Order or Fragmentary Order (Frago) has been reviewed by FEMA/GPD and Customs and Border Protection/United State Border Patrol (CBP/USBP). PSO will receive the official notification of approval from FEMA/GPD and then notify the subrecipient.

Article XXXII. Operation Stonegarden Program Performance Goal

Recipients and subrecipients must demonstrate how the grant-funded project addressed the core capability gap associated with this project and identified in the Threat and Hazard Identification and Risk Analysis (THIRA) or Stakeholder Preparedness Review (SPR) or sustains existing capabilities as applicable. The capability gap reduction or capability sustainment must be addressed in the Project Description for each project.

Article XXXIII. National Incident Management System (NIMS)

During the performance period of this Grant, the subrecipient must implement the NIMS in a manner consistent with the NIMS Implementation Objectives outlined by FEMA at <https://www.fema.gov/emergency-managers/nims/implementation-training>. As subrecipients of Federal preparedness (non-disaster) grant awards, jurisdictions and organizations must achieve or be actively working to achieve all of the NIMS Implementation Objectives.